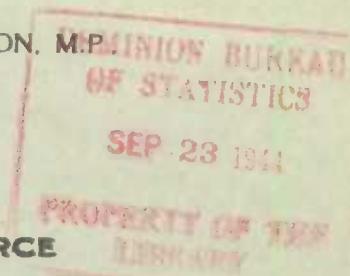


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Published by Authority of the Hon. James A. MacKINNON, M.P.
Minister of Trade and Commerce



CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

GENERAL MANUFACTURES BRANCH

REPORT

ON THE

CORDAGE, ROPE & TWINE INDUSTRY

IN

CANADA

1943



OTTAWA
1944

Price 25 cents

БЕЗОПАСНОСТЬ

ПОДДЕРЖИВАЕМУЮ ПОДДЕРЖИВАЕМУЮ ПОДДЕРЖИВАЕМУЮ
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АДАМАС

КОНСЕРВЫ-ДНА ВСЯРУ ДО ТРЕТИЧНОГО
СОСТАВА ДО НАЧАЛА РОДИНО
СОСТАВА ДО НАЧАЛА РОДИНО
СОСТАВА ДО НАЧАЛА РОДИНО

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

Dominion Statistician: S. A. Cudmore, M.A.(Oxon), F.S.S., F.R.S.C.
Chief, General Manufactures Branch: I. Cohen, B.Com.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1943.

The eleven establishments listed in the cordage, rope and twine industry in 1943 reported a gross value of production of \$12,650,931 and a capital investment in fixed and current assets of \$13,552,590. Persons employed in the industry numbered 1,531 with a salary and wage bill amounting to \$2,279,708 while materials used had a value at the factory of \$8,197,636. The value added by manufacture amounted to \$4,300,242.

Ontario is the leading producer of cordage, rope and twine. The six plants located there produced in 1943, 78.2 per cent of the total output, they also furnished employment to 82.5 per cent of the employees and contributed 84.7 per cent of the total capital invested in the industry.

Both the physical volume and dollar value of production were lower in 1943. Compared with the previous year there was a decrease of 8.1 per cent in the gross value of production and about 12 per cent in the volume. The decreased output is reflected in a drop of 59 in the number of employees and a decrease of \$949,648 in the value added by manufacture.

From the standpoint of both volume and value, binder twine is the principal products manufactured by this industry. In 1943 there were produced 74,813,-234 pounds, valued at the factory at \$7,102,053 at an average selling price of 9.5 cents per pound as against 9.2 cents per pound in 1942. The output of binder twine represented 56.1 per cent of the total value of the products made in 1943. The output of rope totalled 18,233,249 pounds, valued at \$3,224,962 twines for sale 5,389,199 pounds, valued at \$1,554,594 and all other products had a value of \$769,322. Compared with 1942, the output of binder twine was 7.8 per cent lower. Twines made for sale were 22.7 per cent lower, while the production of rope decreased 16.1 per cent. Table 3 gives detailed statistics of production for 1942 and 1943.

Hard fibres such as Manilla hemp, Mexican, Java, African and Cuban sisal, etc., constitute the principal materials used by the industry. The amount used in 1943 was valued at \$5,749,239 or over 70 per cent of the total cost of material used.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1943

Table 1. - Principal Statistics Representative Years, 1921 - 1943

Year and Provinces	Establishments	Capital Invested	Employees	Salaries and Wages	Cost of Materials Used		Gross Value of Production
					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
<u>1942</u>							
CANADA	11	13,286,543	1,590	2,243,872	8,350,266		13,758,225
Ontario	6	11,148,935	1,312	1,883,228	7,026,605		11,311,523
Other Provinces(x) ..	5	2,137,608	278	360,644	1,323,661		2,446,702
<u>1943</u>							
CANADA	11	13,552,590	1,531	2,279,708	8,197,636		12,650,931
Ontario	6	11,481,918	1,263	1,895,259	6,255,632		9,892,220
Other Provinces(x) ..	5	2,070,672	268	384,449	1,942,004		2,758,711

(x) Includes three establishments in Quebec, one in Nova Scotia and one in British Columbia.

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.

Table 2. Comparison of Principal Statistics, 1942 and 1943.

Items		1942	1943	+ Increase - Decrease
Establishments reporting	No.	11	11	
Capital invested	\$	13,286,543	13,552,590	+ 266,047
Employees on salaries -				
Total	No.	143	150	+ 7
Male	No.	98	101	+ 3
Female	No.	45	49	+ 4
Total salaries	\$	379,221	411,100	+ 31,879
Employees on wages -				
Monthly average	No.	1,447	1,381	- 66
Male	No.	881	798	- 83
Female	No.	566	583	+ 17
Total wages	\$	1,864,651	1,868,608	+ 3,957
Power equipment -				
Units	No.	471	493	+ 22
Horse-power capacity	H.P.	8,338	8,376	+ 38
Cost of fuel and electricity	\$	158,069	153,053	- 5,016
Cost of materials used	\$	8,350,266	8,197,636	- 152,630
Gross value of production	\$	13,758,225	12,650,931	- 1,107,294
Value added by manufacture (A)	\$	5,249,890	4,300,242	- 949,648

(A) Gross value of production less cost of materials and fuel and electricity used.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1943

Table 3. - Production, 1942 and 1943

Principal Products	Unit of Measure	1942		1943	
		Quantity	Selling Value at Factory(1)	Quantity	Selling Value at Factory(1)
Binder twine -					
All sisal	lb.	81,102,078	7,479,666	19,509,317	2,583,274
Chiefly sisal	"	-	-	55,303,917	4,518,779
Twines for sale -					
Hemp	"	239,053	163,778	158,005	113,242
Sisal	"	3,772,089	618,632	123,572	20,579
Jute	"	2,873,853	669,462	4,988,163	1,345,111
All other ..	"	78,563	54,191	119,459	75,662
Rope -					
Manila	"	2,955,544	554,598	1,775,350	284,073
Sisal	"	17,245,531	2,845,667	15,144,138	2,350,975
Cotton	"	155,392	67,641	85,800	39,666
Jute	"	857,606	132,618	587,910	94,658
Hemp	"	476,922	328,135	599,050	442,587
All other	"	41,404	7,246	43,001	13,003
All other products, unable to specify	-	-	836,591	-	769,322
TOTAL PRODUCTION	-	-	13,758,225	-	12,650,931

(1) 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 textile establishments.

Table 4. - Consumption of Binder Twine in Canada for the Years, 1941 - 1943

	1943		1942		1941	
	Quantity	Value	Quantity	Value	Quantity	Value
Cwt.	\$	Cwt.	\$	Cwt.	\$	
Production	748,132	7,102,053	811,021	7,479,666	720,512	5,971,190
plus						
Imports	22,515	195,593	-	-	29,381	287,587
TOTAL	770,647	7,297,646	811,021	7,479,666	749,793	6,258,777
less						
Exports	181,356	1,770,419	323,165	2,744,940	199,669	1,504,041
AVAILABLE FOR CONSUMPTION	589,291	5,527,227	487,866	4,734,726	550,124	4,754,736

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1943.

Table 5. - Materials Used, 1942 and 1943.

Principal Materials	Unit of Measure	1942		1943	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
		\$		\$	
HARD FIBRES -					
Manila hemp	lb.	3,425,308	362,500	1,596,046	155,625
African hemp	"	32,734,316	2,571,791	795,884	48,469
Java sisal	(1)	12,221,116	734,597	5,121,313	478,431
Mexican sisal	(2)	30,350,401	2,035,074	45,474,695	3,759,977
African sisal	"	8,742,250	585,114	12,547,576	992,910
Cuban sisal	"	1,428,958	89,228	2,338,931	197,225
Other sisal	"	2,823,819	227,784	1,583,736	116,602
SOFT FIBRES -					
Hemp, hemp tow, flax, flax tow and jute ...	lb.	5,600,150	656,657	5,712,336	749,911
Twines, cotton and linen	"	129,190	111,215	64,505	125,025
Yarns, purchased -					
Flax, hemp and jute ..	lb.	1,117,811	268,646	2,831,342	738,253
Cotton and other	-	-	52,842	-	179,228
Oils	"	-	208,470	-	227,444
Wax	-	-	10,934	-	11,287
Degras	-	-	33,817	-	20,847
All other materials and supplies	-	-	91,926	-	72,165
Packing and shipping materials -					
Burlap	-	-	166,833	-	17,880
Other packing and shipping materials ..	-	-	142,838	-	306,357
TOTAL COST OF MATERIALS USED	-	-	8,350,266	-	8,197,636

(1) Includes some Cantala sisal in 1943

(2) Includes some Carrizal sisal in 1943.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1943

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 products on hand, goods in process, fuel and mis- cellaneous supplies, etc.	
1921	3,022,161	2,697,790	7,861,066
1923	3,421,557	2,143,556	7,329,319
1926	5,774,524	5,859,920	15,679,569
1927	5,965,331	5,401,592	14,890,220
1928	5,346,038	2,627,292	12,173,549
1929	5,354,398	4,253,506	13,066,423
1930	5,274,962	3,274,323	12,281,660
1932	5,085,458	1,476,381	10,184,932
1933	5,073,234	2,099,449	9,839,262
1934	4,634,525	3,261,123	10,416,346
1935	4,683,573	2,336,790	10,991,086
1936	4,674,299	3,644,973	9,949,490
1937	4,679,711	5,175,204	11,254,478
1938	4,666,414	3,455,212	10,437,106
1939	4,725,034	2,976,397	10,376,100
1940	5,030,658	4,654,890	12,190,563
<u>1941</u>			
CANADA	4,183,425	5,643,324(1)	13,136,537
Ontario	3,631,371	5,001,213	11,157,782
Other Provinces	552,054	642,111	1,978,755
<u>1942</u>			
CANADA	4,489,212	5,142,095(2)	13,286,543
Ontario	3,936,643	4,161,653	11,148,935
Other Provinces	552,569	980,462	2,137,608
<u>1943</u>			
CANADA	4,508,493	3,975,830(3)	13,552,590
Ontario	3,960,236	3,340,108	11,481,918
Other Provinces	548,257	635,722	2,070,672

(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, 1943.

Table 7. - Employees by Sex and Remuneration, 1942 and 1943.

		1942	1943
Salaried Employees -			
Total	No.	143	150
Male	No.	98	101
Female	No.	45	49
Total salaries	\$	579,221	411,100
Wage-earners -			
Monthly average	No.	1,447	1,381
Male	No.	881	798
Female	No.	566	583
Total wages	\$	1,864,651	1,868,608
All Employees -			
Total	No.	1,590	1,531
Male	No.	979	899
Female	No.	611	632
Total salaries and wages ...	\$	2,243,872	2,279,708

Table 8. - Monthly Employment of Wage-earners, 1941 - 1943

Months	1941			1942			1943		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	No.	No.	No.	No.	No.	No.	No.	No.	No.
January	796	313	1,109	935	485	1,420	836	565	1,401
February	808	314	1,122	927	501	1,428	822	560	1,382
March	829	312	1,141	926	545	1,471	797	553	1,350
April	877	323	1,200	916	549	1,465	797	527	1,324
May	905	348	1,253	922	607	1,529	733	515	1,248
June	910	353	1,263	933	644	1,577	769	552	1,321
July	924	359	1,283	920	660	1,580	830	556	1,386
August	901	375	1,276	856	610	1,466	811	607	1,418
September	889	401	1,290	827	557	1,384	754	589	1,343
October	859	344	1,203	805	550	1,355	755	653	1,408
November	863	334	1,197	798	547	1,345	815	644	1,459
December	870	332	1,202	810	530	1,340	859	664	1,523
MONTHLY AVERAGE ..	870	341	1,211	881	566	1,447	798	583	1,381

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1943

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	1942		1943	
	Male	Female	Male	Female
	No.	No.	No.	No.
30 hours or less	15	29	28	64
31 - 43 hours	43	96	24	48
44 hours	5	12	3	11
45 - 47 hours	18	23	15	25
48 hours	82	108	90	51
49 - 50 hours	198	93	75	75
51 - 54 hours	142	125	313	274
55 hours	182	68	178	137
56 - 64 hours	263	129	91	21
65 hours and over	17	-	21	-
Average hours per week	53.0	49.3	52.1	48.7
Average weekly earnings	\$ 29.08	19.29	29.46	21.82

Table 10. - Power Installation, 1942 and 1943.

Classes of Power	1942		1943	
	Number of Units	Manufacturers'	Number of Units	Manufacturers'
		Rating of Horse-power Capacity		Rating of Horse-power Capacity
Steam engines and steam turbines	1	200	1	200
Diesel Engines	-	-	10	13
Electric motors, operated by purchased power -				
In use	450	7,648	462	7,673
Idle	20	490	20	490
TOTAL POWER USED IN MANUFACTURING	471	8,338	493	8,376
Boiler installation -				
In use	16	1,658	16	1,848
Idle	6	750	5	550

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1943.

Table 11. - Consumption of Fuel and Electricity, 1942 and 1943.

Kinds of Fuel	Unit of Measure	1942		1943	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
Coal -	Ton		\$		\$
Bituminous	(2000 lbs.)	6,347	43,257	5,495	41,072
Gasoline (including gasoline used in cars and trucks)	Imp.Gal.	6,077	2,006	6,215	2,093
Kerosene or coal oil ...	"	225	42	270	50
Wood	Cord	4	45	1	19
TOTAL COST OF FUEL			45,350		43,234
Electricity purchased (including service charges)	Kw.H.	13,843,525	112,719	12,431,730	109,819
TOTAL COST OF FUEL AND ELECTRICITY			158,069		153,053

Table 12. - Mechanical Equipment, 1942 and 1943.

	1942	1943
	No.	No.
Spindles which consumed fibre during the year ...	4,612	4,081
Spindles which consumed no fibre during the year.	-	332
Twisting and doubling spindles	625	638
Braiding machines	174	176
Rope machines	135	135
Winding machines	341	326
Netting machines	6	6
TOTAL	5,893	5,694

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1943.

APPENDIX

Cordage, Rope and Twine Manufacturers Operating in Canada in 1943.

<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 Street, Montreal)	Wyse Road, Dartmouth	Binder Twine, twines, rope
<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, etc.
Turner, C. A., Manufacturing Company, Reg'd.	199 Victoria St., Sherbrooke	Cord
<u>ONTARIO</u>		
Brantford Cordage Co., Ltd., The Brooks, limited, John S.	111 Brant Street, Brantford	Binder twine. Fish netting.
Derrett, Limited	722 Broad St., E., Dunnville	Twines, rope.
Doon Twines, Limited	6 Bartlett Avenue, Toronto	Yarns, twines, rope.
International Harvester Co. of Canada, Limited	50 Ottawa St. S., Kitchener	
Plymouth Cordage Company	Hillyard Street, Hamilton 229 Plymouth Road, Welland	Binder twine. Binder twine, rope.
<u>BRITISH COLUMBIA</u>		
Canada Western Cordage Co., Ltd., Braid Street, New Westminster (H.O. 20 Water Street, Vancouver.)		Binder twine, twines, rope.

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