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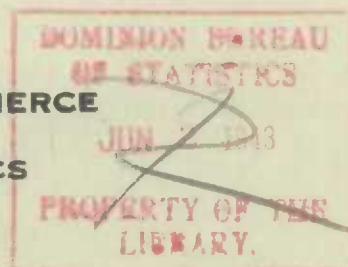
CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

GENERAL MANUFACTURES BRANCH



REPORT

ON THE

CORDAGE, ROPE & TWINE INDUSTRY

IN

CANADA

1942



**OTTAWA
1943**

Price 25 cents

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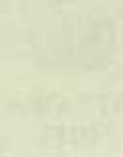
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REPORT OF THE COMMISSIONER OF THE GENERAL LAND OFFICE

CANADA
DEPARTMENT OF THE INTERIOR
BUREAU OF LANDS
GENERAL LAND OFFICE
REPORT OF THE COMMISSIONER

REPORT
ON THE
CORRIGENDUM TO THE REPORT

IN
CANADA
1902



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

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THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1942.

The eleven establishments listed in the cordage, rope and twine industry in 1942 reported a gross value of production of \$13,758,225, and a capital investment in fixed and current assets of \$13,286,543. Persons employed in the industry numbered 1,590 with a salary and wage bill amounting to \$2,243,372, while materials used had a value at the factory of \$8,350,266. The value added by manufacture amounted to \$5,249,890.

Both the volume and dollar value of production were higher in 1942. Compared with the previous year there was an increase of \$2,862,231 or 26.2 per cent in the gross value of production. The increase in the volume, however, was smaller, and is reflected in an increase of only 18.1 per cent in the number of employees. There were also increases of \$150,006 in the capital invested and \$179,973 in the value added by manufacture. The higher capital investment was due to increases in fixed capital as well as larger holdings of cash and accounts receivable. Inventories of raw materials and finished products on hand were lower.

Ontario is the leading producer of cordage, rope and twine. The six plants located there produced in 1942, 82.2 per cent of the total output, they furnished employment to 82.5 per cent of the employees and contributed 83.9 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 1942, there were produced 81,102,078 pounds, valued at the factory at \$7,479,666 or at an average selling price of 9.2 cents per pound as against 8.3 cents per pound in 1941. The output of binder twine represented 54.4 per cent of the total value of the products made in 1942. The output of rope totalled 21,732,399 pounds, valued at \$3,935,905 twines for sale 6,963,558 pounds, valued at \$1,506,063 and all other products had a value of \$836,591. Compared with 1941, the output of binder twine was 12.6 per cent higher. Twines made for sale were 16 per cent lower, while the production of rope increased 45 per cent. Table 3 gives detailed statistics of production for 1941 and 1942.

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 1942 was valued at \$6,606,088 or over 79 per cent of the total cost of materials used.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1942.

Table 1. - Principal Statistics Representative Years, 1921 - 1942.

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
<u>1 9 4 1</u>						
CANADA	11	13,136,537	1,346	1,668,462	5,684,207	10,895,994
Ontario	6	11,157,782	1,074	1,318,575	4,640,095	8,775,648
Other Provinces ...	5	1,978,755	272	349,887	1,044,112	2,120,346
<u>1 9 4 2</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

(x) Included in 1942 - 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, 1941 and 1942.

Items		1 9 4 1	1 9 4 2	+ Increase - Decrease
Establishments reporting	No.	11	11	-
Capital invested	\$	13,136,537	13,286,543	+ 150,006
Employees on salaries -				
Total	No.	135	143	+ 8
Male	No.	97	98	+ 1
Female	No.	38	45	+ 7
Total salaries	\$	309,275	379,221	+ 69,946
Employees on wages -				
Monthly average	No.	1,211	1,447	+ 236
Male	No.	870	881	+ 11
Female	No.	341	566	+ 225
Total wages	\$	1,359,187	1,864,651	+ 505,464
Power equipment -				
Units	No.	422	471	+ 49
Horse-power capacity	H.P.	8,344	8,338	- 6
Cost of fuel and electricity	\$	141,875	158,069	+ 16,194
Cost of materials used	\$	5,684,207	8,350,266	+ 2,666,059
Gross value of production	\$	10,895,994	13,758,225	+ 2,862,231
Value added by manufacture (/)	\$	5,069,912	5,249,890	+ 179,978

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

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1942.

Table 3. - Production, 1941 and 1942.

Principal Products	Unit of Measure	1 9 4 1		1 9 4 2	
		Quantity	Selling Value at Factory	Quantity	Selling Value at Factory(2)
			\$		\$
Binder twine -					
All sisal	lb.	-	-	81,102,078	7,479,666
Chiefly sisal	"	35,388,680	2,837,784	-	-
All sisal and other	"	36,662,499	3,133,406	-	-
Twines for sale - Hemp	"	(1)	(1)	239,053	163,778
Sisal	"	4,935,426	741,325	3,772,089	618,632
Jute	"	(1)	(1)	2,873,853	669,462
All other ..	"	3,351,585	791,537	78,563	54,191
Rope -					
Manila	"	12,229,055	2,048,449	2,955,544	554,598
Sisal	"	1,591,214	244,085	17,245,531	2,845,667
Cotton	"	126,055	59,408	155,392	67,641
Jute	"	642,355	89,718	857,606	132,618
Hemp	"	369,321	202,069	476,922	328,135
All other	"	33,212	4,982	41,404	7,246
All other products, unable to specify	-	-	745,231	-	836,591
TOTAL PRODUCTION	-	-	10,895,994	-	13,758,225

(1) Less than three firms reporting. Included in "All other".

(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 textile establishments.

Table 4. - Consumption of Binder Twine in Canada for the Years, 1939 - 1941.

	1 9 3 9		1 9 4 0		1 9 4 1	
	Quantity	Value	Quantity	Value	Quantity	Value
	Cwt.	\$	Cwt.	\$	Cwt.	\$
Production	492,654	2,789,976	766,308	5,439,612	720,512	5,971,190
plus						
Imports	257,152	1,491,964	112,490	996,688	29,281	287,587
TOTAL	749,806	4,281,940	878,798	6,436,300	749,793	6,258,777
less						
Exports	177,787	969,263	201,499	1,501,256	199,669	1,504,041
AVAILABLE FOR CONSUMPTION	572,019	3,312,677	677,299	4,935,044	550,124	4,754,736

The quantity of binder twine available for consumption during 1942 cannot be ascertained as import and export figures cannot be published.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1942.

Table 5. - Materials Used, 1941 and 1942.

Principal Materials	Unit of Measure	1 9 4 1		1 9 4 2	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
			\$		\$
HARD FIBRES -					
Manila hemp	lb.	12,709,311	975,129	3,425,308	362,500
African hemp	"	13,372,387	692,887	32,734,316	2,571,791
Java sisal	"	25,302,338	1,285,143	12,221,116	734,597
Mexican sisal	"	17,508,660	806,586	30,350,401	2,035,074
Other hard fibres	"	10,131,995	511,427	12,995,027	902,126
SOFT FIBRES -					
Hemp, hemp tow, flax, flax tow and jute ...	lb.	5,572,426	533,692	5,600,150	656,657
Twines, cotton and linen	"	(1)	(1)	129,190	111,215
Yarns, purchased -					
Flax, hemp and jute ..	lb.	883,489	207,264	1,117,811	268,646
Cotton and other	-	-	53,704	-	52,842
Oils	-	-	171,157	-	208,470
Wax	-	-	7,953	-	10,934
Degras	-	-	15,068	-	33,817
Soap, starch, dyes and other chemicals	-	-	77,926	-	70,808
All other materials and supplies	-	-	89,712	-	21,118
Packing and shipping materials -					
Burlap	-	-	158,285	-	166,833
Other packing and shipping materials .	-	-	98,274	-	142,833
TOTAL COST OF MATERIALS USED					
	-	-	5,684,207	-	8,350,266

(1) Less than three firms reporting. Included in "All other".

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1942.

Table 6. - Capital Invested, Representative Years, 1921 - 1942.

Year and Provinces	Fixed Capital	Working Capital		TOTAL CAPITAL
	Land, buildings, fixtures machinery, tools, etc.	Stocks of raw materials and finished products on hands, 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	4,685,573	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
<u>1940</u>				
CANADA	5,030,658	4,634,890	2,525,006	12,190,563
Ontario	4,458,939	4,062,845	2,032,948	10,554,732
Other Provinces	571,719	572,054	492,058	1,635,831
<u>1941</u>				
CANADA	4,183,425	5,643,324(1)	3,309,788	13,136,537
Ontario	3,631,371	5,001,213	2,525,198	11,157,782
Other Provinces	552,054	642,111	784,590	1,978,755
<u>1942</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

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

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

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1942.

Table 7. - Employees by Sex and Remuneration, 1941 and 1942.

		1941	1942
Salaried Employees -			
Total	No.	135	143
Male	No.	97	98
Female	No.	38	45
Total salaries	\$	309,275	379,221
Wage-earners -			
Monthly average	No.	1,211	1,447
Male	No.	870	881
Female	No.	341	566
Total wages	\$	1,359,187	1,864,651
All Employees -			
Total	No.	1,346	1,590
Male	No.	967	979
Female	No.	379	611
Total salaries and wages ...	\$	1,668,462	2,243,872

Table 8. - Monthly Employment of Wage-earners, 1940 - 1942.

Months	1940			1941			1942		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	No.	No.	No.	No.	No.	No.	No.	No.	No.
January	801	296	1,097	796	313	1,109	935	485	1,420
February	861	355	1,216	808	314	1,122	927	501	1,428
March	866	384	1,250	829	312	1,141	926	545	1,471
April	907	404	1,311	877	323	1,200	916	549	1,465
May	896	409	1,305	905	348	1,253	922	607	1,529
June	871	319	1,190	910	353	1,263	933	644	1,577
July	869	326	1,195	924	359	1,283	920	660	1,580
August	830	310	1,140	901	375	1,276	856	610	1,466
September	793	302	1,095	889	401	1,290	827	557	1,384
October	708	287	995	859	344	1,203	805	550	1,355
November	700	287	987	863	334	1,197	798	547	1,345
December	717	301	1,018	870	332	1,202	810	530	1,340
MONTHLY AVERAGE	818	332	1,150	870	341	1,211	887	566	1,447

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1942.

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 1		1 9 4 2	
	Male	Female	Male	Female
	No.	No.	No.	No.
30 hours or less	10	12	15	29
31 - 43 hours	6	16	43	96
44 hours	2	5	5	12
45 - 47 hours	97	70	18	23
48 hours	361	116	82	108
49 - 50 hours	202	109	198	93
51 - 54 hours	34	18	142	125
55 hours	137	58	182	68
56 - 64 hours	95	2	263	129
65 hours and over	9	-	17	-
Average hours per week	50.4	48.2	53.0	49.3
Average weekly earnings \$	26.06	18.32	29.08	19.29

Table 10. - Power Installation, 1941 and 1942.

Classes of Power	1 9 4 1		1 9 4 2	
	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	395	7,489	450	7,648
Idle	27	655	20	490
TOTAL POWER USED IN MANUFACTURING	423	8,344	471	8,338
Boiler installation -				
In use	14	1,598	16	1,658
Idle	6	750	6	750

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1942.

Table 11. - Consumption of Fuel and Electricity, 1941 and 1942.

Kinds of Fuel	Unit of Measure	1 9 4 1		1 9 4 2	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
			\$		\$
Coal -	Ton				
Bituminous	(2000 lbs.)	5,976	38,499	6,347	43,257
Gasoline (including gasoline used in cars and trucks)	Imp.Gal.	5,826	1,840	6,077	2,006
Kerosene or coal oil .	"	-	-	225	42
Wood	Cord	9	71	4	45
TOTAL COST OF FUEL ..	-	-	40,410	-	45,350
Electricity purchased (including service charges)	Kw.H.	11,456,797	101,465	13,843,525	112,719
TOTAL COST OF FUEL AND ELECTRICITY	-	-	141,875	-	158,069

Table 12. - Mechanical Equipment, 1941 and 1942.

	1 9 4 1	1 9 4 2
	No.	No.
Spindles which consumed fibre during the year ...	4,406	4,612
Spindles which consumed no fibre during the year.	210	-
Twisting and doubling spindles	617	625
Braiding machines	170	174
Rope machines	86	135
Winding machines	345	341
Netting machines	6	6
TOTAL	5,840	5,893

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1942.

A P P E N D I X

Cordage, Rope and Twine Manufacturers Operating in Canada in 1942.

<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	111 Brant Street, Brantford	Binder twine.
Brooks, Limited, John S.	722 Broad St., E., Dunnville	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.
Plymouth Cordage Company	229 Plymouth Road, Welland	Binder twine, rope.
<u>BRITISH COLUMBIA</u>		
Canada Western Cordage Co., Ltd., (H.O. 20 Water Street, Vancouver.)	Braid Street, New Westminster	Binder twine, twines, rope.



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