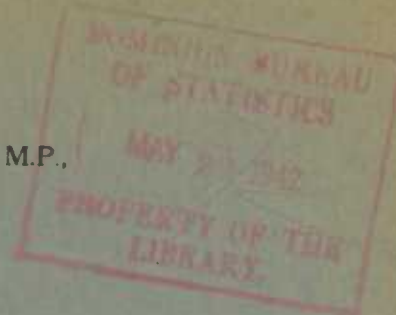


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CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

GENERAL MANUFACTURES BRANCH

REPORT

ON THE

CORDAGE, ROPE & TWINE INDUSTRY

IN

CANADA

1941



OTTAWA
1942

Price 25 cents

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

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

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1941.

The eleven establishments listed in the cordage, rope and twine industry in 1941 reported a gross value of production of \$10,895,994, and a capital investment in fixed and current assets of \$13,136,537. Persons employed in the industry numbered 1,346 with a salary and wage bill amounting to \$1,668,462, while materials used had a value at the factory of \$5,684,207. The value added by manufacture amounted to \$5,069,912.

Both the volume and dollar value of production were higher in 1941. Compared with the previous year there was an increase of \$1,703,049 or 18.5 per cent in the gross value of production. The increase in the volume, however, was much smaller, viz. 1.8 per cent, and is reflected in an increase of only 4.7 per cent in the number of employees and 7.5 per cent in the amount of salaries and wages paid. There were also increases of \$945,974 in the capital invested and \$910,700 in the value added by manufacture. The higher capital investment was due to increases in the inventories of raw materials and finished products on hand as well as larger holdings of cash and accounts receivable. Fixed capital was lower.

Ontario is the leading producer of cordage, rope and twine. The six plants located there produced in 1941, 80.5 per cent of the total output, they furnished employment to 79.8 per cent of the employees and contributed over 84 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 1941, there were produced 72,051,179 pounds, valued at the factory at \$5,971,190, or at an average selling price of 8.3 cents per pound as against 7.1 cents per pound in 1940. The output of binder twine represented 55 per cent of the total value of the products made in 1941. The output of rope totalled 14,991,212 pounds, valued at \$2,648,711, twines for sale 8,287,011 pounds, valued at \$1,532,862, and all other products had a value of \$743,231. Compared with 1940, the output of binder twine was 6 per cent lower. Twines made for sale were 15.8 per cent higher, while the production of rope increased 25 per cent. Table 3 gives detailed statistics of production for 1940 and 1941, while Table 4 gives the consumption of binder twine in Canada for the past few years.

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 1941 was valued at \$4,271,172 or over 75 per cent of the total cost of materials used.

Imports and exports of finished products and raw materials used by the industry during 1940 and 1941 are given in Tables 13 and 14.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1941.

Table 1. - Principal Statistics Representative Years, 1921 - 1941.

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
<u>1940</u>						
CANADA	11	12,190,563	1,285	1,533,026	4,903,793	9,192,945
Ontario	6	10,554,732	1,042	1,229,161	4,164,237	7,611,608
Other Provinces ..	5	1,635,831	243	303,865	739,556	1,581,337
<u>1941(x)</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(x)	5	1,978,755	272	349,887	1,044,112	2,120,346

(x) Included in 1941 - 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, 1940 and 1941.

Items	1940	1941	+ Increase - Decrease
Establishments reporting	No. 11	11	-
Capital invested	\$ 12,190,563	13,136,537	+ 945,974
Employees on salaries -			
Total	No. 135	135	-
Male	No. 102	97	- 5
Female	No. 33	38	+ 5
Total salaries	\$ 317,522	309,275	- 8,247
Employees on wages -			
Monthly average	No. 1,150	1,211	+ 61
Male	No. 818	870	+ 52
Female	No. 332	341	+ 9
Total wages	\$ 1,215,504	1,359,187	+ 143,683
Power equipment -			
Units	No. 417	422	+ 5
Horse-power capacity	H.P. 8,270	8,344	+ 74
Cost of fuel and electricity	\$ 129,940	141,875	+ 11,935
Cost of materials used	\$ 4,903,793	5,684,207	+ 780,414
Gross value of production	\$ 9,192,945	10,895,994	+ 1,703,049
Value added by manufacture (A) ...	\$ 4,159,212	5,069,912	+ 910,700

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

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1941.

Table 3. - Production, 1940 and 1941.

Principal Products	Unit of Measure	1940		1941	
		Quantity	Selling Value at Factory	Quantity	Selling Value at Factory
			\$		\$
Binder twine -					
Chiefly sisal	lb.	40,197,095	2,580,364	35,388,680	2,837,784
All sisal and other	"	36,433,746	2,859,248	36,662,499	3,133,406
Twines for sale - Hemp	"	x	x	x	x
Sisal ...	"	3,685,627	552,929	4,935,426	741,325
All other .	"	3,471,382	697,997	3,351,585	791,537
Rope -					
Manila	"	9,782,237	1,511,989	12,229,055	2,048,449
Sisal	"	1,427,187	168,630	1,591,214	244,085
Cotton	"	108,851	42,002	126,055	59,408
Jute	"	131,528	20,637	642,355	89,718
Hemp	"	496,136	236,180	369,321	202,069
All other	"	18,665	2,240	33,212	4,982
All other products, unable to specify	-	-	520,729	-	743,231
TOTAL PRODUCTION	-	-	9,192,945	-	10,895,994

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

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.

	1939		1940		1941	
	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 CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1941.

Table 5. - Materials Used, 1940 and 1941.

Principal Materials	Unit of Measure	1 9 4 0		1 9 4 1	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
			\$		\$
HARD FIBRES -					
Manila hemp	lb.	11,156,037	678,898	12,709,311	975,129
New Zealand hemp ...	"	53,985	2,525	-	-
African hemp	"	27,679,094	1,313,003	13,372,387	692,887
Java sisal	"	10,049,733	531,434	25,302,338	1,285,143
Mexican sisal	"	15,670,270	626,632	17,508,660	806,586
Other hard fibres ..	"	13,441,768	592,187	10,131,995	511,427
SOFT FIBRES -					
Hemp, hemp tow, flax, flax tow and jute ..	lb.	5,364,553	417,465	5,572,426	533,692
Twines, cotton and linen	"	(1)	(1)	(1)	(1)
Yarns, purchased -					
Flax, hemp and jute ..	lb.	819,911	159,313	883,489	207,264
Cotton and other ...	-	-	40,371	-	53,704
Oils	-	-	177,954	-	171,157
Wax	-	-	6,776	-	7,953
Degras	-	-	7,365	-	15,068
Soap, starch, dyes and other chemicals	-	-	49,238	-	77,926
All other materials and supplies	-	-	75,163	-	89,712
Packing and shipping materials -					
Burlap	-	-	168,002	-	158,285
Other packing and shipping materials(2)	-	-	57,467	-	98,274
TOTAL COST OF MATERIALS USED	-	-	4,903,793	-	5,684,207

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

(2) Including burlap bags.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1941.

Table 6. - Capital Invested, Representative Years, 1921 - 1941.

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
<u>1 9 3 9</u>				
CANADA	4,725,034	2,976,397	2,674,669	10,376,100
Ontario	4,172,685	2,597,792	2,276,733	9,047,210
Other Provinces ..	552,349	378,605	397,936	1,328,890
<u>1 9 4 0</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>1 9 4 1</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

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

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1941.

Table 7. - Employees by Sex and Remuneration, 1940 and 1941.

			1 9 4 0	1 9 4 1
Salaried Employees -				
Total	No.		135	135
Male	No.		102	97
Female	No.		33	38
Total salaries	\$		317,522	309,275
Wage-earners -				
Monthly average	No.		1,150	1,211
Male	No.		818	870
Female	No.		332	341
Total wages	\$		1,215,504	1,359,187
All Employees -				
Total	No.		1,285	1,346
Male	No.		920	967
Female	No.		365	379
Total salaries and wages ...	\$		1,533,026	1,668,462

Table 8. - Monthly Employment of Wage-earners, 1939 - 1941.

Months	1 9 3 9			1 9 4 0			1 9 4 1		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	No.	No.	No.	No.	No.	No.	No.	No.	No.
January	610	252	862	801	296	1,097	796	313	1,109
February	614	250	864	861	355	1,216	808	314	1,122
March	608	249	857	866	384	1,250	829	312	1,141
April	630	254	884	907	404	1,311	877	323	1,200
May	596	250	846	896	409	1,305	905	348	1,253
June	613	252	865	871	319	1,190	910	353	1,263
July	646	252	898	869	326	1,195	924	359	1,283
August	617	244	861	830	310	1,140	901	375	1,276
September	543	225	768	793	302	1,095	889	401	1,290
October	615	265	880	708	287	995	859	344	1,203
November	636	267	903	700	287	987	863	334	1,197
December	636	263	899	717	301	1,018	870	332	1,202
MONTHLY AVERAGE ...	615	252	867	818	332	1,150	870	341	1,211

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1941.

Table 9. - Number of Hours Worked by Wage-earners During One Week Together with Average Weekly Earnings, 1940 and 1941.

Number of Hours Worked per Week	1940 (1)		1941 (1)	
	Male	Female	Male	Female
	No.	No.	No.	No.
30 hours or less	2	1	10	12
31 - 43 hours	2	2	6	16
44 hours	1	-	2	5
45 - 47 hours	96	56	97	70
48 hours	192	47	361	116
49 - 50 hours	266	245	202	109
51 - 54 hours	8	17	34	18
55 hours	64	47	137	58
56 - 64 hours	326	35	95	2
65 hours and over	5	-	9	-
Average hours per week	52.8	50.3	50.4	48.2
Average weekly earnings \$	23.89	15.94	26.06	18.32

(1) One week in month of highest employment, and overtime included.

Table 10. - Power Installation, 1940 and 1941.

Classes of Power	1940		1941	
	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	389	7,415	395	7,489
Idle	27	655	27	655
TOTAL POWER USED IN MANUFACTURING	417	8,270	423	8,344
Boiler installation -				
In use	14	1,598	14	1,598
Idle	6	750	6	750

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1941.

Table 11. - Consumption of Fuel and Electricity, 1940 and 1941.

Kinds of Fuel	Unit of Measure	1940		1941	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
			\$		\$
Coal - Bituminous	Ton (2000 lbs.)	5,576	33,281	5,976	38,499
Gasoline (including gasoline used in cars and trucks)	Imp. Gal.	4,990	1,388	5,826	1,840
Kerosene or coal oil .	"	100	19	-	-
Wood	Cord	4	34	9	71
TOTAL COST OF FUEL ..	-	-	34,722	-	40,410
Electricity purchased (including service charges)	Kw.H.	11,379,963	95,218	11,456,797	101,465
TOTAL COST OF FUEL AND ELECTRICITY	-	-	129,940	-	141,875

Table 12. - Mechanical Equipment, 1940 and 1941.

	1940	1941
	No.	No.
Spindles which consumed fibre during the year ...	4,383	4,406
Spindles which consumed no fibre during the year.	233	210
Twisting and doubling spindles	613	617
Braiding machines	134	170
Rope machines	113	86
Winding machines	313	345
Netting machines	6	6
TOTAL	5,795	5,840

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1941.

Table 13. - Imports of Materials Used and Products Made by the Cordage, Rope and Twine Industry, 1940 and 1941.

Articles Imported	Unit of Measure	1 9 4 0		1 9 4 1	
		Quantity	Value	Quantity	Value
			\$		\$
Fibrilla, flax fibre and flax tow	Cwt.	7,123	12,407	2,270	3,763
Hemp, dressed or undressed ..	"	874	26,207	-	-
Jute and jute butts	"	72,260	431,740	54,551	336,790
Okum of flax, hemp or jute ..	"	16,648	135,013	21,270	195,451
Sisal, istle and tampico fibre	"	756,269	3,518,817	799,937	3,566,092
Manila fibre	"	121,357	660,511	131,490	849,459
Vegetable fibres, n.o.p. ...	"	18,053	96,451	27,335	144,052
Coir and coir yarn	"	9,605	37,907	7,583	30,303
Yarns, jute, singles, n.o.p. .	Lb.	1,210,556	184,672	773,756	114,724
Yarns, vegetable fibres, singles, n.o.p.	"	233,668	55,353	38,224	3,965
Yarns, cords and twines, jute, plied, n.o.p.	"	204,556	32,523	377,459	47,585
Yarns, cords and twines, vegetable fibres, plied, n.o.p. .	"	723,415	149,047	749,299	146,477
Cords and twine, cotton, n.o.p.	"	152,647	67,396	789,555	403,159
Sail twine of hemp or flax for the manufacture of boats' and ships' sails	"	227	214	-	-
Binder twine	Cwt.	112,490	996,688	29,281	287,587
Threads, twine, marlines, fishing lines, of vegetable fibre for fishing purposes or for the construction or repair of fishing nets; not to include such articles used for sportsmen's purposes. '	Lb.	1,327,591	679,395	858,648	461,727
"F"					
Fish nets and nettings (commercial)	-		1,131,431	-	884,207

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1941.

Table 13. - Imports of Materials Used and Products Made by the Cordage, Rope and Twine Industry, 1940 and 1941. - Concluded.

Articles Imported	Unit of Measure	1 9 4 0		1 9 4 1	
		Quantity	Value	Quantity	Value
			\$		\$
Cordage, manila, sisal and New Zealand fibre, exceeding one inch in circumference	Lb.	1,331,849	146,696	1,515,279	165,301
Cordage, exceeding one inch in circumference, wholly of vegetable fibre, n.o.p.	"	505,126	73,950	666,880	100,244
Cordage, exceeding one inch in circumference, n.o.p..	"	147	76	-	-
Rope and cordage of cotton, hemp, manila or other vegetable fibre, not exceeding one and one-half inches in circumference, to be used for fishing purposes, or for the construction and repair of fishing nets; the foregoing not to include such articles used for sportsmen's purposes	"	695,289	99,546	343,607	51,965

Table 14. - Exports of Cordage, Rope and Twine, etc., 1940 - 1941.

Articles Exported	Unit of Measure	1 9 4 0		1 9 4 1	
		Quantity	Value	Quantity	Value
			\$		\$
Fibre and tow of flax or hemp	Cwt.	25,006	465,131	77,463	1,373,275
Binder twine	"	201,499	1,501,256	199,669	1,504,041
Cordage, rope and twine, n.o.p.	-	-	236,915	-	251,235

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1941.

A P P E N D I X

Cordage, Rope and Twine Manufacturers Operating in Canada in 1941.

<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.
Turner, C.A., Manufacturing Company, Reg'd.	199 Victoria St., Sherbrooke	Rope.
<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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