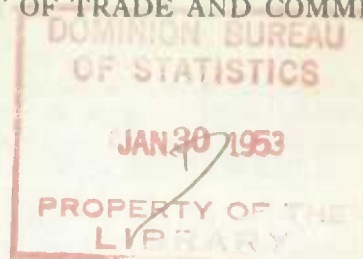


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THE CORDAGE, ROPE AND TWINE INDUSTRY 1951

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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 4 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Construction; **Volume IV**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I—General Review of the Manufacturing Industries, \$1.50.
- II—The Manufacturing Industries, by Provinces
 - Section 1. Principal Statistics of Major Industrial Groups and Leading Industries, 50¢.
 - Section 2. Principal Statistics of Individual Industries, 75¢.
 - Section 3. Principal Statistics by Regional Distribution, 75¢.
- III—Foods and Beverages
- IV—Tobacco and Tobacco Products
- V—Rubber Products
- VI—Leather Products
- VII—Textiles
- VIII—Wood and Paper Products
- IX—Printing Trades
- X—Iron and Steel Products
- XI—Transportation Equipment
- XII—Non-ferrous Metal Products
- XIII—Electrical Apparatus and Supplies
- XIV—Non-metallic Mineral Products
- XV—Products of Petroleum and Coal
- XVI—Chemicals and Allied Products
- XVII—Miscellaneous Manufactures

The present report belongs in Part VII, Textiles. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A—General Review of All Textiles, 25¢.

Textiles, Except Clothing

- B—General Review, 25¢.
- C—The Cotton Textile Industries, 25¢.
- D—The Wool Textile Industries, 25¢.
- E—The Synthetic Textiles and Silk Industry, 25¢.
- F—The Narrow Fabrics Industry, 25¢.
- G—The Dyeing and Finishing of Textile Goods Industry, 25¢.

Miscellaneous Textile Products

- H—The Awning, Tent and Sail Industry, 25¢.
- I—The Cordage, Rope and Twine Industry, 25¢.
- J—The Cotton and Jute Bag Industry, 25¢.
- K—The Miscellaneous Textiles Industries, 25¢.

Clothing

- L—General Review, 25¢.
- M—The Men's Factory Clothing Industry, 25¢.
- N—The Women's and Children's Factory Clothing Industries, 25¢.
- O—The Hosiery, Knitted Goods and Fabric Glove and Mitten Industries, 25¢.
- P—The Corset Industry, 25¢.
- Q—The Fur Goods and Fur Dressing Industries, 25¢.
- R—The Hat and Cap Industry, 25¢.
- S—The Miscellaneous Clothing Industries, 25¢.

THE CORDAGE, ROPE AND TWINE INDUSTRY

1951

The cordage, rope and twine industry operated at significantly higher levels in 1951 than in 1950. There was an increase in output from \$17,459,571 in 1950 to \$29,709,244 in the year under review. Much of this increase, however, was due to higher valuation; the wholesale price of binder twine, for example, rose from \$21.399 per cwt. in 1950 to \$27.628 in 1951. In addition to a much larger quantity of binder twine being available for Canadian consumption, exports rose from 174,936 cwt. in 1950 to 260,659 cwt. in 1951.

Of the eleven establishments listed in the cordage, rope and twine industry, six are located in Ontario, two in Quebec, one in Nova Scotia, one in British Columbia and one in Newfoundland. The plants in Ontario dominated the industry in 1951 accounting for 85 per cent of production and 84 per cent of employment.

The industry's gross value of production of \$29,709,244 in 1951 was accompanied by a cost of materials of \$19,736,188. These figures compared with a production of \$17,459,571 and cost of materials of \$10,989,236 in the previous year. There was an increase of one establishment in 1951 and employment rose from 1,370 to 1,774 over the two years while salaries and wages recorded a gain from \$3,030,188 to \$4,576,300.

From the standpoint of both volume and value, binder twine is the principal product manufactured by the industry. The production of binder twine rose from 39,126,566 pounds valued at \$6,468,269 in 1950 to 65,934,456 pounds valued at \$13,710,121 in 1951. The value of production of binder twine in 1951 represented 46 per cent of the total value of production of the industry. Baler twine increased from 7,523,080 pounds valued at \$1,599,152 in 1950 to 16,232,020 pounds valued at \$4,232,450 in 1951.

The output of rope totalled 14,282,710 pounds valued at \$6,678,788 in 1951 compared with 12,567,214 pounds worth \$4,617,895 the previous year. Manilla rope was valued at \$3,446,503 in 1951 compared with \$2,574,492 the previous year. The value of production of sisal rope showed a gain from \$1,790,603 to \$2,754,913 over the two years.

Hard fibres, such as Manilla hemp, African sisal, Brazilian, Haitian and Mexican, constitute the principal materials used by the industry. The quantity consumed in 1951 was valued at \$16,727,459 or 85 per cent of the total cost of materials used. Full details of production and materials consumed are given in Tables 3 and 5 of this Report.

TABLE 1. Principal Statistics, Representative Years, 1921-1951

Year and Provinces	Establishments	Employees	Salaries and wages	Cost of materials used	Gross value of production
	No.	No.	\$	\$	\$
1921	9	824	1,055,462	4,620,408	7,962,550
1924	9	1,359	1,486,702	5,096,892	8,876,786
1929	13	1,368	1,518,280	7,798,893	11,798,165
1930	13	1,058	1,182,568	6,059,887	8,551,349
1933	11	1,015	1,027,460	2,461,395	4,740,612
1937	10	1,030	1,132,435	3,907,340	6,578,967
1938	10	882	1,007,597	3,057,839	4,910,962
1939	10	978	1,055,702	2,710,778	4,966,074
1940	11	1,285	1,533,026	4,903,793	9,192,945
1941	11	1,346	1,668,462	5,684,207	10,895,994
1942	11	1,590	2,243,872	8,350,266	13,758,225
1943	11	1,531	2,279,708	8,197,636	12,650,931
1944	10	1,741	2,637,162	10,594,964	16,177,696
1945	10	1,678	2,477,765	8,814,693	14,419,946
1946	10	1,740	2,669,236	8,058,127	13,869,880
1947	10	1,607	2,837,339	11,053,378	18,229,405
1948	10	1,470	2,999,745	11,575,748	17,995,920
1949	10	1,302	2,805,837	10,732,750	16,917,938
1950					
Canada	10	1,370	3,030,188	10,989,236	17,459,571
Ontario	6	1,090	2,447,040	9,017,807	14,033,112
Other provinces ¹	4	280	583,148	1,971,429	3,426,459
1951					
Canada	11	1,774	4,576,300	19,736,188	29,709,244
Ontario	6	1,498	3,871,527	17,393,481	25,400,296
Other provinces ¹	5	276	704,773	2,342,707	4,308,948

1. Includes one establishment in Newfoundland, one in Nova Scotia, two in Quebec 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.

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.

TABLE 2. Comparison of Principal Statistics, 1950 and 1951

Item	1950	1951	+ Increase - Decrease
Establishments reporting	No. 10	11	+ 1
Employees on salaries:			
Total	No. 192	195	+ 3
Male	137	135	- 2
Female	55	60	+ 5
Total salaries	\$ 680,583	824,543	+ 143,960
Employees on wages:			
Monthly average	No. 1,178	1,579	+ 401
Male	739	1,030	+ 291
Female	439	549	+ 110
Total wages	\$ 2,349,605	3,751,757	+ 1,402,152
Cost of fuel and electricity	\$ 198,775	216,893	+ 18,118
Cost of materials used	\$ 10,989,236	19,736,188	+ 8,746,952
Gross value of production	\$ 17,459,571	29,709,244	+ 12,249,673

TABLE 3. Production, 1950 and 1951

Principal products	1950		1951	
	Quantity	Selling value at factory	Quantity	Selling value at factory
	lb.	\$	lb.	\$
Binder twine:				
All sisal	39,126,566	6,468,269 ¹	65,934,456	13,710,121 ¹
Chiefly sisal				
Baler twine — All sisal	7,523,080	1,599,152	16,232,020	4,232,450
Twines for sale:				
Hemp	195,609	141,937	107,562	100,426
Jute	2,078,030	835,753	1,751,145	831,296
Sisal	5,928,023	1,782,007	5,090,219	1,887,864
All other	578,613	499,128	634,309	590,491
Rope:				
Manilla	6,013,729	2,574,492	6,905,784	3,446,503
Sisal	6,041,696	1,790,603	6,827,067	2,754,913
Cotton	248,542	126,248	272,518	179,184
Jute				
Hemp	111,121	67,419	131,192	88,560
All other	152,126	59,133	146,149	209,628
Yarns:				
Flax, hemp, jute, etc.	2,392,854	1,436,583	1,579,494	574,981
All other products, unable to specify	—	78,847	—	1,102,827
Total production	—	17,459,571	—	29,709,244

1. 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 1950 and 1951 were \$21.399 and \$27.628 per cwt., respectively.

TABLE 4. Consumption of Binder Twine in Canada for the Years, 1949-1951

	1949		1950		1951	
	Quantity	Value	Quantity	Value	Quantity	Value
	cwt.	\$	cwt.	\$	cwt.	\$
Production	479,308	7,542,885	391,266	6,468,269	659,345	13,710,121
Imports	4,609	104,705	11,289	239,756	5,198	199,648
Total	483,917	7,647,590	402,555	6,708,025	664,543	13,909,769
Exports	311,381	5,789,694	174,936	3,231,103	260,659	4,706,092
Available for consumption	172,536	1,857,896	227,619	3,476,922	403,884	9,203,677

TABLE 5. Materials Used, 1950 and 1951

Principal materials	1950		1951	
	Quantity	Cost value at factory	Quantity	Cost value at factory
	lb.	\$	lb.	\$
Hard fibres:				
Manilla hemp	5,746,808	1,597,297	7,514,525	2,169,011
Java sisal	—	—	677,547	207,617
Mexican sisal	14,346,246	1,836,960	15,376,745	1,984,223
African sisal	13,362,489	2,273,248	19,015,272	4,955,321
Cuban	1,937,924	258,768	1,501,914	365,279
Haitian	6,015,399	1,016,814	14,125,501	2,888,307
Brazilian	8,122,156	1,224,271	18,283,500	4,103,250
Other hemp and sisal	2,868,415	522,246	209,552	54,451
Soft fibres:				
Hemp, hemp tow, flax, flax tow and jute	4,400,510	820,279	4,221,602	819,416
Twines, cotton and other	107,115	52,966	1	1
Yarns purchased:				
Flax, hemp and jute	730,886	219,540	867,452	287,834
Cotton and other	618,538	310,170	613,372	445,080
Oils	—	186,454	—	324,418
Wax	—	7,489	—	14,841
Degras	—	15,978	—	21,375
All other materials and supplies	—	462,403	—	725,192
Packing and shipping materials:				
Burlap	—	23,210	—	38,850
Other packing and shipping materials	—	161,143	—	331,743
Total cost of materials used	—	10,989,236	—	19,736,188

1. Included in "All other Materials and Supplies"

TABLE 6. Imports of Materials Used and Products Made by the Cordage Rope and Twine Industry, 1950 and 1951

Articles imported	Unit of measure	1950		1951	
		Quantity	Value	Quantity	Value
			\$		\$
Fibrilla, flax fibre and flax tow	cwt.	7,001	169,668	3,190	211,021
Manila fibre	"	59,874	1,600,862	104,161	3,153,056
Vegetable fibres, n.o.p.	"	25,415	192,510	18,596	170,474
Sisal, istle and tampico fibre	"	569,071	8,235,520	819,576	18,502,839
Jute and jute butts	"	75,322	1,179,637	108,654	2,005,711
Okum of flax, hemp or jute	"	27,596	406,686	24,102	398,912
Coir and coir yarn	"	8,019	88,786	12,412	199,837
Yarns, vegetable fibres, singles, n.o.p.	lb.	200,890	78,088	220,202	94,893
Yarns, cords and twines, vegetable fibres, plied n.o.p. ..	"	1,025,817	302,755	819,153	338,013
Yarns, cords and twines, jute, plied, n.o.p.	"	270,495	68,615	134,646	43,188
Yarns, jute, singles, n.o.p.	"	757,644	171,337	202,974	50,914
Cords and twine, cotton, n.o.p.	"	431,044	406,062	440,284	610,308
Thread, twines, marlines, fishing lines of vegetable fibre for commercial fishing purposes or for the construction or repair of fishing nets	"	850,116	572,787	936,661	866,433
Cordage, manila, sisal and New Zealand fibre, exceeding one inch in circumference	"	1,874,632	473,812	1,692,625	586,538
Cordage exceeding one inch in circumference, wholly of vegetable fibre, n.o.p.	"	280,162	132,063	387,686	123,675
Rope and cordage of cottonhemp, 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	"	1,879,414	521,369	1,861,496	658,623
Binder twine	cwt.	11,289	239,756	5,198	199,648
Fish nets and nettings	—	—	2,022,521	—	3,344,339
Jute manufactures, n.o.p.	—	—	21,038	—	26,198
Vegetable fibre manufactures, n.o.p.	lb.	1,198,942	1,387,505	1,349,543	1,779,184

TABLE 7. Exports of Cordage, Rope and Twine, etc., 1950 and 1951

Articles Exported	1950		1951	
	Quantity	Value	Quantity	Value
	cwt.	\$	cwt.	\$
Fibre and tow of flax or hemp	31,923	569,220	11,607	275,586
Binder twine	174,936	3,231,103	260,659	4,706,092
Rope	2,981	94,883	1,641	55,098
Cordage and twine, n.o.p.	41,703	1,007,994	108,991	2,993,289
Nets Twine Commercial Fishing	—	244,733	—	490,100

TABLE 8. Employees by Sex and Remuneration, 1950 and 1951

		1950			1951		
		Ontario	Other ¹	Total	Ontario	Other ¹	Total
Salaried Employees:							
Total	No.	135	57	192	132	63	195
Male	"	95	42	137	90	45	135
Female	"	40	15	55	42	18	60
Total Salaries	\$	488,658	191,925	680,583	563,071	261,472	824,543
Wage-earners:							
Monthly average	No.	955	223	1,178	1,366	213	1,579
Male	"	589	150	739	880	150	1,030
Female	"	366	73	439	486	63	549
Total Wages	\$	1,958,382	391,223	2,349,605	3,308,456	443,301	3,751,757
All Employees:							
Total	No.	1,090	280	1,370	1,498	276	1,774
Male	"	684	192	876	970	195	1,165
Female	"	406	88	494	528	81	609
Total Salaries and Wages	\$	2,447,040	583,148	3,030,188	3,871,527	704,773	4,576,300

1. Includes one establishment in Newfoundland, one in Nova Scotia, two in Quebec and one in British Columbia.

TABLE 9. Monthly Employment of Wage-earners, 1949-1951

Months	1949			1950			1951		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Number									
January	734	416	1,150	673	403	1,076	1,011	540	1,551
February	746	410	1,156	663	410	1,073	1,048	564	1,612
March	733	422	1,155	678	403	1,081	1,035	575	1,610
April	728	425	1,153	690	414	1,104	1,047	558	1,605
May	725	440	1,165	710	421	1,131	1,044	557	1,601
June	691	425	1,116	702	410	1,112	1,051	551	1,602
July	709	429	1,138	698	421	1,119	1,025	532	1,557
August	698	411	1,109	692	412	1,104	1,011	546	1,557
September	684	402	1,086	736	415	1,151	997	553	1,550
October	658	394	1,052	781	451	1,232	1,029	554	1,583
November	653	387	1,040	909	504	1,413	1,068	553	1,621
December	652	376	1,028	940	509	1,449	989	479	1,468
Monthly average	700	412	1,112	739	439	1,178	1,030	549	1,579

TABLE 10. Estimated Capital, Repair and Maintenance Expenditures 1946-1951

(Thousands of dollars)

Year	Capital Expenditures			Repair and maintenance expenditures			Capital, repair and maintenance expenditures		
	Con- struction	Machinery and equipment	Sub- total	Con- struction	Machinery and equipment	Sub- total	Con- struction	Machinery and equipment	Total
1944	9	85	94	499 ¹		499	593		593
1945	284	39	303	408 ¹		408	711		711
1946	275	65	340	469	—	469	744	65	809
1947	64	122	186	125	386	511	189	508	697
1948	30	455	485	104	407	511	135	861	996
1949	2	379	381	198	427	625	200	806	1,006
1950	—	181	181	227	347	574	227	528	755
1951	180	294	474	141	520	661	321	814	1,135

1. Breakdown on Repairs for 1944 and 1945 are not available.

TABLE 11. Mechanical Equipment, 1950 and 1951

	1950	1951
	No.	No.
Spindles which consumed fibre during the year	4,359	4,537
Spindles which consumed no fibre during the year	154	70
Twisting and doubling spindles	1,835	734
Looms	13	13
Braiding machines	189	202
Rope machines	144	169
Winding machines	253	358
Netting	26	8

APPENDIX

Cordage, Rope and Twine Manufacturers Operating in Canada in 1951

Name of firm	Location	Products made
Newfoundland: Colonial Cordage Company Ltd.	St. John's	Twines, ropes
Nova Scotia: Consumers' Cordage Co., Ltd. (H.O. 132 St. James W., Montreal, Quebec)	Wyse Road, Dartmouth	Binder twine, twines, ropes
Quebec: Bolduc, The C.N. Manufacturing Co. Dominion Wire Rope & Cable Co., Ltd. (Synthetic Cordage Div.)	12 College St., Lennoxville 175 St. Joseph St., Lachine	Rope Rope
Ontario: Brantford Cordage Co., Ltd., The	111 Brant St., Brantford	Binder twine, twines, ropes
Brooks Limited, John S.	722 Broad St., E., Dunnville	Fish netting
Derrett Cordage Co.	6 Bartlett Avenue, Toronto	Twines, rope, etc.
Doon Twines Ltd.	58 Ottawa St., S., Kitchener	Yarns, twines, ropes
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.
British Columbia: Canada Western Cordage Co., Ltd. (H.O. 20 Water St., Vancouver)	Braid St., New Westminster	Twines, rope