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THE CORDAGE ROPE AND TWINE INDUSTRY 1952

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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—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¢

Textile Mills

- 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¢
- 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

Knitting Mills

- L—The Hosiery and Knitted Goods Industries, 25¢

Clothing

- M—General Review, 25¢
- N—The Men's Factory Clothing Industry, 25¢
- O—The Women's and Children's Factory Clothing 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

1952

In 1952 the value of factory shipments f.o.b. plant was collected in place of gross value of production for those industries where inventory change is considered negligible and where, therefore, factory shipments are approximately the same as production. A similar changeover has or will be made also for the industries where shipments and production differ significantly but for these industries quantities produced will be collected along with the information on quantities and values of items shipped. This is in line with a decision taken by the Bureau to convert from a gross value of production to a gross value of shipments approach in its annual survey of manufacturing. The adoption of a shipments concept is expected to provide increased ease in reporting for the majority of plants while at the same time producing more reliable, more meaningful statistics in many cases.

In the case of the cordage, rope and twine industry, it was first thought that information on shipments would suffice and the survey for 1952 was made on this basis. Later, however, it was deemed inadvisable to cease collecting the quantity of binder and baler twine produced and in order to provide continuity for the production series, this information on these two important commodities was subsequently collected for 1952. Still later, it was decided that for 1953 and future years the survey would cover quantities produced for all commodities as well as quantities and values for commodities shipped.

In 1952 the factory shipments made by the industry had a value f.o.b. plant of \$28,841,340. Employment fell from 1,774 in 1951 to 1,720 in 1952, while salary and wage payments increased from \$4,576,300 to \$4,930,896 in the same period. The cost of materials rose from \$19,736,188 in 1951 to \$21,655,091 in the year under review.

Of the 11 establishments listed in the cordage, rope and twine industry, 6 are located in Ontario, 2 in Quebec, 1 in Nova Scotia, 1 in British Columbia and 1 in Newfoundland. The plants in Ontario dominated the industry accounting for 86 per cent of products shipped and 84 per cent of employment.

From the standpoint of volume and value, binder twine is the principal product manufactured by the industry. The factory shipments of binder twine in 1952 amounted to 55,096,595 pounds having a value of \$12,209,470. The value of shipments of binder twine in 1952 represented 42 per cent of the total value of shipments of the industry. There were 23,189,580 pounds of baler twine shipped at a value of \$6,974,305. The production of binder twine amounted to 63,288,181 pounds and of baler twine to 28,984,421 pounds. The comparable figures for 1951 are 65,934,456 pounds and 16,232,020 pounds, respectively.

Shipments of rope totalled 12,149,664 pounds valued at \$5,511,639 in 1952. Manilla rope shipped was valued at \$3,092,145 or 56 per cent of total rope shipments. The amount of sisal rope reported had a value of \$1,945,383 or 35 per cent of total.

Hard fibres such as Manilla hemp, African sisal, Brazilian, Haitian and Mexican, constitute the principal materials used by the industry. The quantity consumed in 1952 was valued at \$19,298,561 or 89 per cent of the total cost of materials consumed.

Full details of factory shipments and materials consumed are given in Tables 3 and 5 of this report.

TABLE 1. Principal Statistics, Representative Years, 1921-1952

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	10	1,370	3,030,188	10,989,236	17,459,571
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
1952					
Canada	11	1,720	4,930,896	21,655,091	28,841,340 ²
Ontario	6	1,453	4,203,115	19,393,233	24,902,500 ²
Other provinces ¹	5	267	727,781	2,261,858	3,938,840 ²

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

2. In 1952 gross value of production is replaced by value of factory shipments. (See text). The inventory value of finished product at plant at the end of 1951 amounted to \$3,723,000 and at the end of 1952 to \$4,917,000.

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, 1951 and 1952

Item	1951	1952	+ Increase - Decrease
Establishments reporting	No. 11	11	-
Employees on salaries:			
Total	No. 195	221	+ 26
Male	135	146	+ 11
Female	60	75	+ 15
Total salaries	\$ 824,543	911,540	+ 86,997
Employees on wages:			
Monthly average	No. 1,579	1,499	- 80
Male	1,030	1,026	- 4
Female	549	473	- 76
Total wages	\$ 3,751,757	4,019,356	+ 267,599
Cost of fuel and electricity	\$ 216,893	189,836	- 27,057
Cost of materials used	\$ 19,736,188	21,655,091	+ 1,918,903
Gross value of production	\$ 29,709,244	28,841,340 ¹	-

1. Value of factory shipments. (See text).

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 3. Production 1951, Factory Shipments 1952

Principal products	1951 Production		1952 Factory Shipments	
	Quantity	Value	Quantity	Value
	lb.	\$	lb.	\$
Binder twine:				
All sisal	65,934,456	13,710,121 ¹	55,096,595	12,209,470 ¹
Chiefly sisal				
Baler twine — All sisal	16,232,020	4,232,450	23,189,580	6,974,305
Twines for sale:				
Hemp	107,562	100,426	117,272	106,869
Jute	1,751,145	831,296	1,725,104	754,220
Sisal	5,090,219	1,887,864	4,143,458	1,497,637
All other	634,309	590,491	445,256	454,585
Rope:				
Manilla	6,905,784	3,446,503	7,014,421	3,092,145
Sisal	6,827,067	2,754,913	4,719,526	1,945,383
Cotton	272,518	179,184	146,954	126,810
Jute				
Hemp	131,192	88,560	110,375	72,038
All Other	146,149	209,628	158,388	275,263
Yarns:				
Flax, hemp, jute, etc.	1,579,494	574,981	1,509,870	521,963
All other products, unable to specify	—	1,102,827	—	810,652
Total production	—	29,709,244	—	28,841,340

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 1951 and 1952 were \$29.528 and \$33.426 per cwt., respectively.

TABLE 4. Consumption of Binder Twine in Canada for the Years, 1949-1952

	1949	1950	1951	1952
	Cwt.	Cwt.	Cwt.	Cwt.
Production	479,308	391,266	659,345	632,882
Imports	4,609	11,289	5,198	12,386
Total	483,917	402,555	664,543	645,268
Exports	311,381	174,936	260,659	174,778
Available for consumption	172,536	227,619	403,884	470,490

TABLE 5. Materials Used, 1951 and 1952

Principal materials	1951		1952	
	Quantity	Cost value at factory	Quantity	Cost value at factory
	lb.	\$	lb.	\$
Hard fibres:				
Manilla hemp	7,514,525	2,169,011	10,538,232	2,932,944
Java sisal	677,547	207,617	1,591,207	483,490
Mexican sisal	15,376,745	1,984,223	7,659,659	1,280,026
African sisal	19,015,272	4,955,321	31,191,359	8,172,290
Cuban	1,501,914	365,279	2,496,681	610,558
Haitian	14,125,501	2,888,307	6,937,813	1,584,124
Brazilian	18,283,500	4,103,250	15,750,621	3,968,153
Venezuelan	1	1	626,926	139,363
Other hemp and sisal	209,552	54,451	509,329	127,613
Soft fibres:				
Hemp, hemp tow, flax, flax tow and jute	4,221,602	819,416	2,435,659	454,455
Twines, cotton and other	2	2	120,757	425,233
Yarns purchased:				
Flax, hemp and jute	867,452	287,834	669,169	223,211
Cotton and other	613,372	445,080	273,745	187,836
Nylon	3	3	55,202	129,504
Oils	—	324,418	—	331,473
Wax	—	14,841	—	13,061
Degras	—	21,375	—	23,118
All other materials and supplies	—	725,192	—	161,444
Packing and shipping materials:				
Burlap	—	38,830	—	32,155
Other packing and shipping materials	—	331,743	—	375,040
Total cost of materials used	—	19,736,188	—	21,655,091

1. Included in "Other hemp and sisal".

2. Included in "All other materials and supplies".

3. Included in "Cotton and other yarn purchased".

TABLE 6. Imports of Materials Used and Products Made by the Cordage Rope and Twine Industry, 1951 and 1952

Articles imported	Unit of measure	1951		1952	
		Quantity	Value	Quantity	Value
			\$		\$
Fibrilla, flax fibre and flax tow	cwt.	3,190	211,021	431	26,719
Manila fibre	"	104,161	3,153,056	103,009	2,457,045
Vegetable fibres, n.o.p.	"	18,596	170,474	13,380	128,081
Sisal, istle and tampico fibre	"	819,576	18,502,839	802,344	17,021,619
Jute and jute butts	"	108,654	2,005,711	5,893	66,585
Okum of flax, hemp and jute	"	24,102	398,912	18,946	336,521
Coir and coir yarn	"	12,412	199,837	6,029	67,565
Yarns, vegetable fibres, singles, n.o.p.	lb.	220,202	94,893	93,434	41,228
Yarns, cords and twines, vegetable fibres, plied, n.o.p.	"	819,153	338,013	844,798	309,215
Yarns, cords and twines, jute, plied, n.o.p.	"	134,646	43,188	265,096	66,349
Yarns, jute, singles, n.o.p.	"	202,974	50,914	475,609	105,031
Cords and twine, cotton, n.o.p.	"	440,284	610,308	347,513	331,696
Thread, twines, marlines, fishing lines of vegetable fibre for commercial fishing purposes or for the construction or repair of fishing nets	"	936,661	866,433	940,290	828,707
Cordage, manila, sisal and New Zealand fibre, exceeding one inch in circumference	"	1,692,625	586,538	1,019,624	296,419
Cordage exceeding one inch in circumference, wholly of vegetable fibre, n.o.p.	"	387,686	123,675	463,874	141,875
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	"	1,861,496	658,623	1,019,624	296,419
Binder twine	cwt.	5,198	199,648	12,386	372,816
Fish nets and nettings	—	—	3,344,339	—	2,964,043
Jute manufactures, n.o.p.	—	—	26,198	—	21,090
Vegetable fibre manufactures, n.o.p.	lb.	1,349,543	1,779,184	1,310,810	1,847,274

TABLE 7. Exports of Cordage, Rope and Twine, etc., 1951 and 1952

Articles exported	1951		1952	
	Quantity	Value	Quantity	Value
	cwt.	\$	cwt.	\$
Fibre and tow of flax or hemp	11,607	275,586	22,480	536,097
Binder twine	260,659	4,706,092	174,778	3,849,501
Rope	1,641	55,098	465	115,035
Cordage and twine, n.o.p.	108,991	2,993,289	138,165	4,279,385
Nets Twine Commercial Fishing	—	490,100	—	550,594

TABLE 8. Employees by Sex and Remuneration, 1951 and 1952

	1951			1952		
	Ontario	Other ¹	Total	Ontario	Other ¹	Total
Salaried Employees:						
Total..... No.	132	63	195	155	66	221
Male..... "	90	45	135	100	46	146
Female..... "	42	18	60	55	20	75
Total salaries..... \$	563,071	261,472	824,543	639,859	271,681	911,540
Wage-earners:						
Monthly average..... No.	1,366	213	1,579	1,298	201	1,499
Male..... "	880	150	1,030	882	144	1,026
Female..... "	486	63	549	416	57	473
Total wages..... \$	3,308,456	443,301	3,751,757	3,563,256	456,100	4,019,356
All Employees:						
Total..... No.	1,498	276	1,774	1,453	267	1,720
Male..... "	970	195	1,165	982	190	1,172
Female..... "	528	81	609	471	77	548
Total salaries and wages..... \$	3,871,527	704,773	4,576,300	4,203,115	727,781	4,930,896

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, 1950-1952

	1950			1951			1952		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	Number								
January.....	673	403	1,076	1,011	540	1,551	1,039	484	1,523
February.....	663	410	1,073	1,048	564	1,612	1,108	483	1,591
March.....	678	403	1,081	1,035	575	1,610	1,254	544	1,798
April.....	690	414	1,104	1,047	558	1,605	1,275	569	1,844
May.....	710	421	1,131	1,044	557	1,601	1,219	548	1,767
June.....	702	410	1,112	1,051	551	1,602	1,227	522	1,749
July.....	698	421	1,119	1,025	532	1,557	1,014	467	1,481
August.....	692	412	1,104	1,011	546	1,557	821	393	1,214
September.....	736	415	1,151	997	553	1,550	890	458	1,348
October.....	781	451	1,232	1,029	554	1,583	843	398	1,241
November.....	909	504	1,413	1,068	553	1,621	859	387	1,246
December.....	940	509	1,449	989	479	1,468	754	402	1,156
Monthly average.....	739	439	1,178	1,030	549	1,579	1,026	473	1,499



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THE TEXTILES INDUSTRIES

TABLE 10. Estimated Capital, Repair and Maintenance Expenditures 1944-1952

(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 ¹		593
1945	264	39	303	408 ¹		408	711 ¹		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
1952	78	545	623	146	496	642	224	1,041	1,265

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

TABLE 11. Mechanical Equipment, 1951 and 1952

	1951	1952
	No.	No.
Spindles which consumed fibre during the year	4,537	4,219
Spindles which consumed no fibre during the year	70	162
Twisting and doubling spindles	734	731
Looms	13	14
Braiding machines	202	209
Rope machines	169	170
Winding machines	358	364
Netting	8	8

APPENDIX

Cordage, Rope and Twine Manufacturers Operating in Canada in 1952

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 and twine
Ontario: Brantford Cordage Co., Ltd., The	111 Brant St., Brantford	Binder twine, twines, ropes
Brooks Limited, John S.	722 Broad St., E., Dunville	Fish netting
Derrett Cordage Co.	6 Bartlett Avenue, Totonto	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