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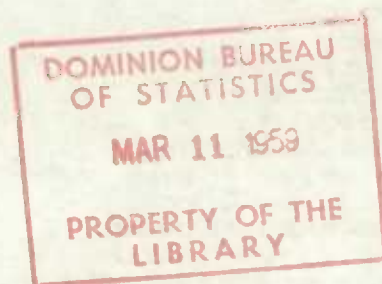
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ANNUAL



THE CORDAGE ROPE AND TWINE INDUSTRY

1957



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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 or provinces 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
- II — The Manufacturing Industries of Canada, (7 sections, as follows:)
 - Section A. Summary for Canada
 - Section B. Atlantic Provinces
 - Section C. Quebec
 - Section D. Ontario
 - Section E. Prairie Provinces
 - Section F. British Columbia
 - Section G. The Manufacturing Industries of Canada, Regional Distribution
- III — Foods and Beverages
- IV — Tobacco and Tobacco Products
- V — Rubber Products
- VI — Leather Products
- VII — Textile Mills
- VIII — Knitting Mills
- IX — Clothing
 - X — Wood and Paper Products
- XI — Printing Trades
- XII — Iron and Steel Products
- XIII — Transportation Equipment
- XIV — Non-ferrous Metal Products
 - XV — Electrical Apparatus and Supplies
- XVI — Non-metallic Mineral Products
- XVII — Products of Petroleum and Coal
- XVIII — Chemicals and Allied Products
- XIX — Miscellaneous Manufactures

The present report belongs in Part VII, Textile Mills. 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
- B — The Cotton Textile Industries
- C — The Wool Textile Industries
- D — The Synthetic Textiles and Silk Industry
- E — The Narrow Fabrics Industry
- F — The Dyeing and Finishing of Textile Goods Industry
- G — The Awning, Tent and Sail Industry
- H — The Cordage, Rope and Twine Industry
- I — The Cotton and Jute Bag Industry
- J — The Miscellaneous Textiles Industries

Prices of most reports released after January 1, 1959 have been increased. Information on the new prices of particular issues is available on request from the Information Services Division of the Dominion Bureau of Statistics.

THE CORDAGE ROPE AND TWINE INDUSTRY 1957

In 1957 the value of factory shipments decreased slightly from the previous year. The total value of goods shipped was \$16,837,764, \$318,104 or 1.9 per cent below the preceding year's \$17,155,868. Only Baler twine, yarns, and all other products showed an increase in terms of both volume and value.

Shipments of binder twine were down to 19,955,535 pounds valued at \$2,793,997 from 21,947,474 pounds worth \$3,438,189. Baler twine showed an increase from 39,261,720 pounds worth \$5,305,374 in 1956 to 41,452,095 pounds worth \$5,701,709 in 1957, a continuation at a lower rate of the increase from 1955 to 1956. Rope was shipped to the extent of 11,644,581 pounds with a selling value of \$4,384,403 as against 12,159,134 pounds valued at \$4,446,287 in 1956. Twine shipments decreased slightly being 7,629,041 pounds worth \$2,285,045 as opposed to the 7,766,853 pounds worth \$2,241,505 shipped in the previous year.

The addition of the substantial \$494,787 increase in the total of goods in process less the decrease of \$584 in finished goods inventory, both during the year, places the value of production for 1957 at \$17,331,967. This amount, when compared to the previous year's total of \$17,136,017 represents an increase of 1.1 per cent. According to an index¹ prepared by the Bureau from data obtained by this annual survey, the volume of output for the industry was up 6.8 per cent over the previous year. The disparity between the volume index and value index reflects the generally lower level of prices obtaining for the industry's products in the year under review. According to information compiled by the Prices Division of DBS, the average monthly wholesale price of binder twine declined from 20.52 per cwt. in 1956 to \$17.170 per cwt. in 1957 and that of baler twine from \$7.930 to \$7.710 per 40 lb.

¹ Based on 1949 equals 100, the Bureau's volume of production index for the cordage, rope and twine industry is as follows: 1950-104.5; 1951-143.8; 1952-136.3; 1953-83.4; 1954-97.0; 1955-116.0 1956-122.9; 1957-131.3.

bale over the two years. On the other hand, the price of manila rope per lb. increased slightly from \$0.450 to \$0.486 from 1956 to 1957.

The increased production was accomplished with 25 more employees, 1,181 as against 1,156 a year earlier. Salaries and wages also increased from \$3,812,114 to \$4,009,122. The cost of materials consumed in manufacture rose from \$9,024,435 in 1956 to \$9,388,918 in 1957.

The industry was composed of 16 establishments, one more than the year before. They were located provincially as follows: Newfoundland 1, Nova Scotia 1, Quebec 3, Ontario 7, and British Columbia 4. Ontario continued to dominate the industry, accounting for 76 per cent of the factory shipments and for 78 per cent of the employment.

Hard fibres such as Manila hemp, African sisal, Mexican sisal, etc., again constituted the principal materials used by the industry. The quantity consumed in 1957 was valued at \$6,676,476 or 71 per cent of the total cost of materials used. A new switch towards the use of Java and Mexican sisal was also apparent; the former accounted for 0.6 per cent of the value of all hard fibres used in 1956 as opposed to 4.7 per cent in 1957; and the latter for 1.4 per cent as compared to 7.2 per cent. On the other hand, the value of other hemp and sisal used in 1956 was 21.1 per cent of all hard fibres consumed whereas it was only 10.0 per cent in 1957.

Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses has been collected as part of the Annual Census of Industry. This data was formerly collected by a separate survey. The summarized results for the cordage, rope and twine industry for the year under review will be found in Table 3.

Full details of factory shipments and of materials consumed are to be found in Tables 4 and 6 of this report.

TABLE 1. Principal Statistics, Representative Years, 1924 - 1957

Year and province	Establishments	Employees	Salaries and wages	Cost at factory of fuel and electricity	Cost at factory of materials and supplies used	Value added by manufacture	Gross value of production ³
	number				dollars		
1924.....	9	1,359	1,486,702	123,415	5,096,892	3,656,479	8,876,786
1929.....	13	1,368	1,518,280	122,249	7,798,893	3,877,023	11,798,165
1930.....	13	1,058	1,182,568	108,798	6,059,887	2,382,664	8,551,349
1933.....	11	1,015	1,027,460	103,453	2,461,395	2,175,764	4,740,612
1937.....	10	1,030	1,132,435	106,246	3,907,340	2,565,381	6,578,967
1939.....	10	978	1,055,702	101,436	2,710,778	2,153,869	4,966,074
1940.....	11	1,285	1,533,026	129,940	4,903,793	4,159,212	9,192,945
1941.....	11	1,346	1,668,462	141,875	5,684,207	5,069,912	10,895,994
1942.....	11	1,590	2,243,872	158,069	8,350,266	5,249,890	13,758,225
1943.....	11	1,531	2,279,708	153,053	8,197,636	4,300,242	12,650,931
1944.....	10	1,741	2,637,162	159,897	10,594,964	5,422,835	16,177,696
1945.....	10	1,678	2,477,765	164,878	8,814,693	5,440,375	14,419,946
1946.....	10	1,740	2,669,236	170,710	8,058,127	5,641,043	13,869,880
1947.....	10	1,607	2,837,339	176,154	11,053,378	6,999,873	18,229,405
1948.....	10	1,470	2,999,745	167,114	11,575,748	6,253,058	17,995,920
1949.....	10	1,302	2,805,837	186,041	10,732,750	5,999,147	16,917,938
1950.....	10	1,370	3,030,188	198,775	10,989,236	6,271,560	17,459,571
1951.....	11	1,774	4,576,300	216,893	19,736,188	9,756,163	29,709,244
1952.....	11	1,720	4,930,896	189,836	21,655,091	6,996,413 ⁴	28,841,340
1953.....	14	1,188	3,570,086	205,596	7,336,124	10,324,294 ⁴	17,866,014
1954.....	16	1,198	3,701,430	203,673	7,901,107	6,626,696	15,045,023
1955.....	17	1,191	3,735,936	204,560	8,089,835	7,269,748	15,571,556
1956							
Canada.....	15	1,156	3,812,114	176,773	9,024,435	7,934,809	17,155,868
Quebec.....	3	14	38,226	1,760	118,818	83,029	198,627
Ontario.....	7	885	2,904,953	119,258	7,145,717	5,955,121	13,295,027
Other provinces ¹	5	257	868,935	55,755	1,759,900	1,896,659	3,662,214
1957							
Canada.....	16	1,181	4,009,122	188,283	9,388,918	7,754,766	16,837,764
Quebec.....	3	15	40,304	2,239	103,542	99,206	198,367
Ontario.....	7	923	3,096,607	130,958	7,403,376	5,675,700	12,801,625
Other provinces ²	6	243	872,211	55,086	1,882,000	1,979,860	3,837,772

¹ Includes one establishment in Newfoundland, one in Nova Scotia and three in British Columbia.² Includes one establishment in Newfoundland, one in Nova Scotia and four in British Columbia.³ Beginning with 1952 the value of factory shipments has been collected instead of the gross value of production.⁴ Because of insufficient inventory data in 1952 and 1953, these figures have been calculated from value of factory shipments and are, therefore, only approximations to true "value added by manufacture".

TABLE 2. Comparison of Principal Statistics, 1956 and 1957

Item	1956	1957	+ Increase - Decrease
Establishments reporting..... No.	15	16	+ 1
Supervisory and office employees:			
Total..... "	203	205	+ 2
Male..... "	135	135	+ -
Female..... "	68	70	+ 2
Total salaries..... \$	1,038,414	1,092,593	+ 54,179
Production workers:			
Monthly average..... No.	953	976	+ 23
Male..... "	695	703	+ 8
Female..... "	258	273	+ 15
Total wages..... \$	2,773,700	2,916,529	+142,829
Cost of fuel and electricity..... \$	176,773	188,283	+ 11,510
Cost of materials used..... \$	9,024,435	9,388,918	+364,483
Value of factory shipments..... \$	17,155,868	16,837,764	-318,104

Note: 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. Inventories,¹ 1957

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening: ²				
Quebec	28,500	—	18,580	47,080
Ontario	2,126,516	244,871	1,740,931	4,112,318
Other Provinces	535,089	103,977	635,644	1,274,710
Canada	2,690,105	348,848	2,395,155	5,434,108
Closing:				
Quebec	31,950	—	25,200	57,150
Ontario	1,686,406	208,380	2,185,831	4,080,617
Other Provinces	560,278	139,884	678,911	1,379,073
Canada	2,278,634	348,264	2,889,942	5,516,840

¹ Book value of all manufacturing inventories held at plant and plant warehouses.

² The opening inventory for 1957 differs from the closing inventory published for 1956 because of the inclusion of new firms and the removal of figures for firms which did not operate during 1957.

TABLE 4. Factory Shipments, 1956 and 1957

Principal products	1956		1957	
	Quantity	Selling value at factory	Quantity	Selling value at factory
	lb.	\$	lb.	\$
Binder twine	21,947,474	3,438,189 ¹	19,955,535	2,793,997 ¹
Baler twine — All sisal	39,261,720	5,305,374	41,452,095	5,701,709
Twines for sale:				
Hemp	193,123	143,699	152,346	112,656
Jute	1,775,749	565,998	2,634,248	755,162
Sisal	5,445,333	1,358,508	4,359,676	1,027,210
All other	352,648	373,300	482,771	390,017
Rope:				
Manila	7,075,627	2,814,485	7,076,092	2,796,960
Sisal	4,686,072	1,286,914	4,241,970	1,217,968
Cotton	155,153	127,480	73,736	86,034
Jute				
Hemp	147,451	92,426	111,260	73,610
All other	94,831	124,982	141,523	209,831
Yarns:				
Flax, hemp, jute, etc.	1,575,876	470,996	1,713,298	491,317
All other products, unable to specify	—	1,053,517	—	1,181,293
Total factory shipments	—	17,155,868	—	16,837,764

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 1956 and 1957 were \$20.52 and \$17.17 per cwt., respectively.

TABLE 5. Consumption of Binder Twine in Canada for the Years, 1954 - 1957

	1954	1955	1956	1957
	hundredweight			
Factory shipments	307,990	273,495	219,475	199,555
Imports	37,387	41,134	51,041	30,819
Total	345,377	314,629	270,516	230,374
Exports	138,233	94,152	74,447	56,472
Available for consumption¹	207,144	220,477	196,069	173,902

¹ Heretofore production instead of factory shipments was used in this table in arriving at available supply. The changeover is calculated to give data more closely approximating "market".

TABLE 6. Materials Used, 1956 and 1957

Principal materials	1956		1957	
	Quantity	Cost value at factory	Quantity	Cost value at factory
	lb.	\$	lb.	\$
Hard fibres:				
Manilla hemp	6,056,764	1,096,845	6,002,403	1,151,754
Java sisal	356,567	41,821	3,602,760	315,541
Mexican sisal	1,094,437	93,669	5,882,282	479,662
African sisal	18,444,125	1,876,325	22,799,349	2,089,606
Cuban	¹	¹	¹	¹
Haitian	22,263,908	2,127,120	23,247,970	1,973,044
Brazilian				
Other hemp and sisal	13,574,056	1,398,194	7,312,694	666,869
Soft fibres:				
Hemp, hemp tow, flax, flax tow and jute	2,499,395	304,677	3,886,515	468,962
Twines, cotton and other	163,387	285,342	127,970	208,857
Yarns purchased:				
Flax, hemp and jute	976,002	247,753	875,215	244,090
Cotton and other	484,610	352,476	610,115	414,199
Oils	—	234,887	—	268,569
Wax	—	8,234	—	8,728
Degras	—	10,691	—	10,644
All other materials and supplies	—	642,936	—	737,122
Packing and shipping materials	—	303,465	—	351,271
Total cost of materials used	—	9,024,435	—	9,388,918

¹ Included in "Other hemp and sisal".

TABLE 7. Imports of Materials Used and Products Made by the Cordage Rope and Twine Industry, 1956 and 1957

Articles imported	1956		1957	
	Quantity	Value	Quantity	Value
		\$		\$
Fibrilla, flax fibre and flax tow	cwt. 1,225	38,718	1,038	30,967
Hemp, dressed or undressed	" 389	10,021	1,899	40,944
Manila fibre	" 58,998	1,100,319	63,731	1,299,660
Vegetable fibres, n.o.p.	" 8,101	74,386	8,920	88,192
Sisal, istle and tampico fibre	" 663,328	6,076,648	756,124	5,929,070
Jute and jute butts	" 76,823	843,252	12,606	105,514
Okum of flax, hemp and jute	" 27,156	423,656	24,729	407,632
Coir and coir yarn	" 6,218	63,925	5,984	74,935
Yarns, vegetable fibres, singles, n.o.p.	lb. 287,595	98,083	137,119	56,134
Yarns, cords and twines, vegetable fibres, plied, n.o.p.	" 1,554,745	363,993	1,446,525	337,323
Yarns, cords and twines, jute, plied, n.o.p.	" 432,687	107,426	191,934	49,187
Yarns, jute, singles, n.o.p.	" 1,066,229	193,268	601,027	107,679
Cords and twine, cotton, n.o.p.	" 476,741	412,402	410,120	347,255
Thread, twines, marlines, fishing lines of vegetable fibre for commercial fishing purposes or for the construction or repair of fishing nets	" 1,072,701	894,731	688,607	774,406
Cordage, manila, sisal and New Zealand fibre, exceeding one inch in circumference	" 2,328,047	538,033	1,979,785	475,044
Cordage exceeding one inch in circumference, wholly of vegetable fibre, n.o.p.	" 556,747	175,558	535,154	173,405
Rope and cordage 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	" 2,553,970	651,623	2,482,931	623,970
Baler twine	cwt. 76,781	1,035,000	112,112	1,539,414
Binder twine	" 51,041	700,410	30,819	419,246
Fish nets and nettings	lb. 1,420,516	2,222,817	1,299,906	1,828,482
Jute manufactures, n.o.p.	" 95,937	46,763	51,915	33,154
Vegetable fibre manufactures, n.o.p.	" 3,687,504	3,597,473	3,638,700	3,725,729

TABLE 8. Exports of Cordage, Rope and Twine, etc., 1956 and 1957

Articles exported	1956		1957	
	Quantity	Value	Quantity	Value
	cwt.	\$	cwt.	\$
Fibre and tow of flax or hemp	2,600	66,523	3,085	71,690
Binder twine	74,447	1,143,513	56,472	858,533
Rope	925	34,476	5,449	221,515
Cordage and twine, n.o.p.	196,947	3,221,312	176,471	2,857,050
Nets, twines, lines and rope for commercial fishing	—	819,429	—	1,018,530

TABLE 9. Employees and their Earnings, by Provinces, 1956 and 1957

	Average number					Earnings		
	Supervisory and office employees		Production workers		Total	Supervisory and office employees	Production workers	Total
	Male	Female	Male	Female				
1956	number					dollars		
Quebec	5	2	5	2	14	15,626	22,600	38,226
Ontario	83	51	551	200	885	683,920	2,221,033	2,904,953
Other ¹	47	15	139	56	257	338,868	530,067	868,935
Canada	135	68	695	258	1,156	1,038,414	2,773,700	3,812,114
1957	number					dollars		
Quebec	5	2	5	3	15	18,104	22,200	40,304
Ontario	90	53	560	220	923	746,774	2,349,833	3,096,607
Other ²	40	15	138	50	243	327,715	544,496	872,211
Canada	135	70	703	273	1,181	1,092,593	2,916,529	4,009,122

¹ Includes one establishment in Newfoundland, one in Nova Scotia, and three in British Columbia.² Includes one establishment in Newfoundland, one in Nova Scotia and four in British Columbia.

TABLE 10. Monthly Employment of Production Workers, 1955 - 1957

	1955			1956			1957		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	number								
January	720	317	1,037	684	267	951	719	285	1,004
February	705	322	1,027	684	254	938	714	283	997
March	700	308	1,008	716	261	977	694	288	982
April	706	309	1,015	711	270	981	694	285	979
May	704	312	1,016	707	268	975	698	285	983
June	700	311	1,011	702	250	952	746	280	1,026
July	689	300	989	674	247	921	720	271	991
August	673	274	947	699	259	958	694	271	965
September	670	280	950	645	255	900	696	273	969
October	660	275	935	690	248	938	689	256	945
November	672	296	968	700	253	953	672	249	921
December	663	272	935	706	274	980	667	234	901
Monthly average	690	298	988	695	258	953	703	273	976

TABLE 11. Estimated Capital, Repair and Maintenance Expenditures 1946 - 1957

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
	thousands of dollars								
1946	340	..	..	469	..	..	809
1947	125	111	424	535	173	549	722
1948	361	..	..	519	108	772	880
1949	226	127	372	499	133	592	725
1950	222	152	293	445	173	494	667
1951	215	363	578	174	464	638	389	827	1,216
1952	551	154	461	615	232	934	1,166
1953	625	..	..	437	137	925	1,062
1954	415	..	..	505	122	798	920
1955	321	..	..	453	161	613	774
1956	430	..	..	458	140	748	888
1957 ¹	238	..	..	376	158	456	614

¹ Figures for 1957 are preliminary.

.. Figures not available.

TABLE 12. Mechanical Equipment, 1956 and 1957

	1956	1957
	number	
Spindles which consumed fibre during the year	3,232	3,230
Spindles which consumed no fibre during the year	471	471
Twisting and doubling spindles	839	850
Looms	28	4
Braiding machines	369	474
Banding machines	3	—
Rope machines	116	164
Winding machines	380	367
Netting	26	27

TABLE 13. Consumption of Fuel and Electricity, 1956 and 1957

Kinds of fuel		1956		1957	
		Quantity	Cost value at factory	Quantity	Cost value at factory
			\$		\$
Bituminous coal	ton	2,699	33,672	1,982	24,710
Gasoline (including gasoline used in cars and trucks) ..	Imp. gal.	7,639	2,266	11,966	4,457
Fuel oil	"	181,900	23,284	267,566	33,100
Other fuel	—	—	500	—	572
Total cost of fuel	—	—	59,722	—	62,839
Electricity purchased (including service charges)	kwh.	10,663,995	117,051	10,953,657	125,444
Total cost of fuel and electricity	—	—	176,773	—	188,283

List of Cordage, Rope and Twine Manufacturers Operating in Canada in 1957

Name of firm	Location	Products made
Newfoundland:		
Colonial Cordage Company Ltd.	St. John's	Rope, twine, yarn, lines
Nova Scotia:		
Plymouth Cordage Co. of Canada, Ltd. (H.O. Welland, Ontario)	Wyse Road, Dartmouth	Rope
Quebec:		
Beaver Mfg. Co. Reg.	782 Lafontaine St., Drummondville	Rope, twines
Dominion Wire Rope Ltd. (Synthetic Cordage Div.)	175 St. Joseph St., Lachine	Rope
Kenyon William, & Sons (Canada) Ltd.	Cabana & Berard St., Granby	Rope
Ontario:		
Algonquin Line & Thread Co. Ltd.	6 Bartlett Avenue, Toronto	Fishing lines etc.
Brantford Cordage Co. Ltd., The	96 Sherwood Drive, Brantford	Baler twine, binder twine, rope, twine
Brooks Limited, John S.	722 Broad St., E., Dunville	Fish netting
Derrett Cordage Co.	6 Bartlett Avenue, Toronto	Twines, lines
Doon Twines Ltd.	50 Ottawa St., S., Kitchener	Baler twine, binder twine, rope, twine, yarn
International Harvester Co. of Canada Ltd. ..	208 Hillyard Street, Hamilton	Baler twine, binder twine
Plymouth Cordage Co. of Canada Ltd.	229 Plymouth Road, Welland	Baler twine, binder twine, rope, twine, yarn
British Columbia:		
Canada Ropes Ltd.	377 No. 3 Road, Lulu Island	Rope, twines, lines
Canada Western Cordage Co., Ltd. (H.O. 20 Water St., Vancouver	Braid St., New Westminster	Rope, twine
Danforth Net & Twine Co.	1238 Seymour St., Vancouver	Fish nets
First Vancouver Net Factory Ltd.	121 Main St., Vancouver	Fish nets, twines



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