

34-203 27

DOMINION BUREAU OF STATISTICS - DEPARTMENT OF TRADE AND COMMERCE
CANADA,



THE CORDAGE, ROPE AND TWINE INDUSTRY

1949

Published by Authority of the RT. HON. C. D. HOWE
Minister of Trade and Commerce

Prepared in the General Manufactures Section,
Industry and Merchandising Division,
Dominion Bureau of Statistics, Ottawa

677.1



E05-4E

C16

D

1949

NOTICE

The Industry and Merchandising Division of the Bureau of Statistics collects and compiles figures on (a) the primary industries in Canada—mining, forestry and fishing; (b) manufacturing; (c) construction, and (d) merchandising and services.

For the purpose of annual compilation and publication, the manufacturing industries have been classified into major groups, prefaced by two reports of a general nature, as follows:

- I Summary Report on Manufacturing Industries
- II Manufacturing Industries by Geographical Distribution
- III Foods and Beverages
- IV Tobacco and Tobacco Products
- V Rubber Products
- VI Leather Products
- VII Miscellaneous Manufactures
- VIII Textiles
- IX Wood and Paper Products
- X Printing Trades
- XI Operations in the Woods
- XII Iron and Steel Manufactures
- XIII Transportation Equipment
- XIV Non-ferrous Metals Manufactures
- XV Electrical Apparatus
- XVI Non-metallic Mineral Products
- XVII Coke and Gas—Petroleum Refining
- XVIII Chemicals and Allied Products

The present report belongs to Group VIII. 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**Textiles Except Clothing**

- B General Review
- C The Cotton Textile Industry
- D The Woollen Textile Industries
- E The Synthetic Textiles and Silk Industry
- F The Narrow Fabrics Industry
- G The Dyeing and Finishing of Textile Goods Industry

Miscellaneous Textile Products

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

Clothing

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

C1708'40

THE CORDAGE, ROPE AND TWINE INDUSTRY

1949

The ten establishments listed in the cordage, rope and twine industry in 1949 reported a gross value of production of \$16,917,938. Persons employed numbered 1,302 with salaries and wages paid amounting to \$2,805,837. Materials used had a value at the factory of \$10,732,750, while the value added by manufacture amounted to \$5,999,147.

Ontario is the leading producer of cordage, rope and twine. The six plants located there in 1949 produced 80.3 per cent of the total output and furnished employment to 79 per cent of the employees engaged in the industry. This year an establishment in Newfoundland has been added to the industry.

From the standpoint of both volume and value, binder twine is the principal product manufactured by this industry. In 1949 there were produced 47,930,828 pounds, with a value at the factory of \$7,542,885. The output of binder twine represented 44.6 per cent of the total value of products made during this year. The value of binder twine in 1949 represented a drop of \$2,003,628 or 21 per cent in comparison with 1948.

The value of baler twine also declined from \$723,002 in 1947 to \$675,452 in 1948.

The output of rope totalled 11,744,839 pounds, valued at \$4,248,029; twines for sale, 7,306,978 pounds valued at \$2,916,112; yarns for sale, 3,614,982 pounds valued at \$1,176,985; and all other products had a value of \$358,475.

Compared with 1948 the industry reported a decrease of approximately 11 per cent in the physical volume of production during 1949, due to the drop of 27.5 per cent in production of binder twine. Slight increases in physical production were registered by manilla rope and flax, hemp and jute yarns. Table 3 gives detailed statistics of production for 1948 and 1949.

Hard fibres, such as Manilla hemp, Mexican and African sisal, etc. constitute the principal materials used by the industry. The amount used in 1949 was valued at \$8,213,368 or 76.5 per cent of the total cost of materials used.

TABLE 1. — Principal statistics, representative years, 1921-1949

Year and Provinces	Establishments	Capital Invested	Employees	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
1941.....	11	13,136,537	1,346	1,668,462	5,684,207	10,895,994
1942.....	11	13,286,543	1,590	2,243,872	8,350,266	13,758,225
1943.....	11	13,552,590	1,531	2,279,708	8,197,836	12,650,931
1944.....	10	2	1,741	2,637,162	10,594,964	16,177,696
1945.....	10	2	1,678	2,477,765	8,814,693	14,419,946
1946.....	10	2	1,740	2,669,236	8,058,127	13,869,880
1947.....	10	2	1,607	2,837,339	11,053,378	18,229,405
1948						
Canada.....	10	2	1,470	2,999,745	11,375,748	17,993,920
Ontario.....	6	2	1,218	2,531,179	9,987,676	15,079,320
Other Provinces ¹	4	2	252	468,566	1,588,072	2,916,600
1949						
Canada.....	10	2	1,302	2,805,837	10,732,750	16,917,938
Ontario.....	6	2	1,028	2,254,207	8,665,904	13,578,643
Other Provinces ¹	4	2	274	551,630	2,066,846	3,339,295

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

2. Information not collected since 1943.

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.

CENSUS OF MANUFACTURES

TABLE 2. Comparison of principal statistics, 1948 and 1949

Item	1948	1949	+ Increase - Decrease
Establishments reporting..... No.	10	10	-
Employees on salaries:			
Total..... No.	164	190	+ 26
Male..... No.	114	132	+ 18
Female..... No.	50	58	+ 8
Total Salaries..... \$	574,215	650,445	+ 76,230
Employees on wages:			
Monthly average..... No.	1,306	1,112	- 194
Male..... No.	846	700	- 146
Female..... No.	460	412	- 48
Total Wages..... \$	2,425,530	2,155,392	- 270,138
Cost of fuel and electricity..... \$	167,114	186,041	+ 18,927
Cost of materials used..... \$	11,575,748	10,732,750	- 842,998
Gross value of production..... \$	17,995,920	16,917,938	- 1,077,982
Value added by manufacture..... \$	6,253,058	5,999,147	- 253,911

TABLE 3. Production, 1948 and 1949

Principal products	Unit of measure	1948		1949	
		Quantity	Selling value at factory	Quantity	Selling value at factory
			\$		\$
Binder twine:					
All sisal..... lb.	}	66,071,290	9,546,513 ²	47,930,828	7,542,885 ²
Chiefly sisal..... "					
Baler twine - All sisal..... "		3,667,500	723,002	3,123,400	675,452
Twines for sale:					
Hemp..... "		1	1	150,522	120,188
Jute..... "		3,041,341	1,141,105	3,082,682	1,162,500
Sisal..... "		3,405,376	1,038,177 ²	3,194,750	1,014,443 ²
Manilla..... "		1	1	196,713	57,483
All other..... "		551,882	238,386	682,311	561,498
Rope:					
Manilla..... "		5,220,442	2,001,715	6,035,925	2,386,187
Sisal..... "		6,147,595	1,800,901	5,253,223	1,620,776
Cotton..... "		41,858	42,718	65,058	58,097
Jute..... "		290,511	72,654	141,493	47,350
Hemp..... "		115,073	69,993	133,942	80,822
All other..... "		108,148	29,341	115,198	54,797
Yarns:					
Flax, hemp, jute, etc. "		3,160,489	1,018,941	3,614,982	1,176,985
All other products, unable to specify	-	-	272,474	-	358,475
Total production.....	-	-	17,995,920	-	16,917,938

1. Included in all other twines.

2. 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 1948 and 1949 were \$19.784 and \$21.628 per cwt., respectively.

TABLE 4. Consumption of binder twine in Canada for the years, 1947-1949

	1947		1948		1949	
	Quantity	Value	Quantity	Value	Quantity	Value
	cwt.	\$	cwt.	\$	cwt.	\$
Production.....	652,795	8,758,981	660,713	9,546,513	479,308	7,542,885
Imports.....	5	152	19	515	4,609	104,705
Total.....	652,800	8,759,133	660,732	9,547,028	483,917	7,647,590
Exports.....	216,688	3,274,331	282,180	4,745,220	311,381	5,789,694
Available for consumption.....	436,112	5,484,802	378,552	4,801,808	172,536	1,857,896

TABLE 5. Materials used, 1948 and 1949

Principal materials	Unit of measure	1948		1949	
		Quantity	Cost value at factory	Quantity	Cost value at factory
			\$		\$
Hard fibres:					
Manilla hemp.....	lb.	5,547,999	1,222,532	5,227,496	1,369,157
Java sisal.....	"	1	1	1	1
Mexican sisal.....	"	12,241,624	1,987,428	9,492,953	1,457,222
African sisal.....	"	39,305,687	6,156,491	25,368,402	4,317,069
Cuban.....	"	1	1	1,869,555	290,796
Haitian.....	"	348,278	58,625	2,314,975	402,753
Brazilian.....	"	237,086	44,394	1,515,658	255,839
Other hemp and sisal.....	"	757,079	128,829	500,266	120,532
Soft fibres:					
Hemp, hemp tow, flax, flax tow and jute.....	lb.	6,242,853	1,050,757	6,574,908	1,241,251
Twines, cotton and linen.....	"	43,442	93,907	25,977	49,474
Yarns, purchased:					
Flax, hemp and jute.....	"	550,648	167,052	687,709	230,520
Cotton and other.....	"	87,910	62,240	703,141	385,978
Oils.....	-	-	247,497	-	216,531
Wax.....	-	-	6,737	-	5,936
Degras.....	-	-	6,412	-	12,246
All other materials and supplies.....	-	-	87,898	-	182,904
Packing and shipping materials:					
Burlap.....	-	-	19,425	-	20,471
Other packing and shipping materials.....	-	-	235,524	-	174,071
Total cost of materials used.....	-	-	11,575,748	-	10,732,750

1. Included in "Other hemp and sisal".

TABLE 6. — Imports of materials used and products made by the cordage, rope and twine industry, 1948 and 1949

Articles Imported	Unit of Measure	1948		1949	
		Quantity	Value	Quantity	Value
			\$		\$
Fibrilla, flax fibre and flax tow	Cwt.	10,005	194,398	1,404	71,394
Manila fibre.....	"	61,560	1,394,804	58,352	1,581,812
Vegetable fibres, n.o.p.....	"	30,974	212,790	24,849	163,709
Sisal, istle and tampico fibre	"	730,831	11,043,092	382,135	6,329,069
Jute and jute butts.....	"	55,488	1,010,969	87,748	1,358,220
Okum of flax, hemp or jute.....	"	23,654	324,483	21,076	311,769
Coir and coir yarn.....	"	7,608	111,337	9,556	104,703
Yarns, vegetable fibres, singles, n.o.p.	Lbs.	21,848	14,327	69,243	27,531
Yarns, cords and twines, vegetable fibres, plied n.o.p.	"	426,201	173,168	621,920	215,440
Yarns, cords and twines, jute, plied, n.o.p.	"	196,311	57,761	95,040	28,405
Yarns, jute, singles, n.o.p.	"	231,744	56,049	258,407	61,210
Cords and twine, cotton, n.o.p.	"	490,962	436,159	295,417	258,472
Thread, twines, marlines, fishing lines of vegetable fibre for commercial fishing purposes or for the construction or repair of fishing nets.....	"	468,882	466,482	402,204	384,283
Cordage, manila, sisal and New Zealand fibre, exceeding one inch in circumference.....	"	779,306	212,404	1,358,563	370,401
Cordage exceeding one inch in circumference, wholly of vegetable fibre, n.o.p.	"	521,042	147,837	397,119	141,814
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.....	"	978,527	267,727	1,162,976	346,027
Binder twine.....	Cwt.	19	515	4,609	104,705
Fish nets and nettings.....	—	—	1,769,353	—	2,340,593
Jute manufactures, n.o.p.	—	—	26,996	—	12,088
Vegetable fibre manufactures, n.o.p.	Lbs.	534,701	736,065	616,804	716,643

TABLE 7. — Exports of cordage, rope and twine, etc., 1948 and 1949

Articles Exported	Unit of Measure	1948		1949	
		Quantity	Value	Quantity	Value
			\$		\$
Fibre and tow of flax or hemp.....	Cwt.	25,152	484,438	28,042	477,377
Binder twine.....	"	282,180	4,745,220	311,381	5,789,694
Rope.....	"	2,451	57,596	1,841	45,777
Cordage and twine, n.o.p.	"	24,303	1,077,116	8,317	260,303
Nets Twine Commercial Fishing.....	"	1	1	—	846,494

1. Included in "Cordage and twine, n.o.p.".

TABLE 8. — Employees by sex and remuneration, 1948 and 1949

		1948	1949
Salaried Employees:			
Total	No.	164	190
Male	No.	114	132
Female.....	No.	50	58
Total Salaries.....	\$	574,215	650,445
Wage-earners:			
Monthly average.....	No.	1,306	1,112
Male	No.	846	700
Female.....	No.	460	412
Total Wages.....	\$	2,425,530	2,155,392
All Employees:			
Total	No.	1,470	1,302
Male	No.	960	832
Female.....	No.	510	470
Total Salaries and Wages.....	\$	2,999,745	2,805,837

THE CORDAGE, ROPE AND TWINE INDUSTRY

I-7

TABLE 9. - Monthly employment of wage-earners, 1947-1949

Months	1947			1948			1949		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	No.	No.	No.	No.	No.	No.	No.	No.	No.
January.....	885	547	1,432	949	521	1,470	734	416	1,150
February.....	751	424	1,175	959	532	1,491	746	410	1,156
March.....	942	528	1,470	947	500	1,447	733	422	1,155
April.....	966	553	1,519	901	466	1,367	728	425	1,153
May.....	942	546	1,488	861	444	1,305	725	440	1,165
June.....	926	551	1,477	879	464	1,343	691	425	1,116
July.....	926	533	1,459	894	476	1,370	709	429	1,138
August.....	932	510	1,442	845	478	1,323	698	411	1,109
September.....	927	535	1,462	777	453	1,230	684	402	1,086
October.....	931	531	1,462	713	401	1,114	658	394	1,052
November.....	946	539	1,485	705	385	1,090	653	387	1,040
December.....	872	514	1,386	689	393	1,082	652	376	1,028
Monthly average.....	912	526	1,438	846	460	1,306	700	412	1,112

TABLE 10. - Estimated capital, repair and maintenance expenditures 1946-1950

(Thousands of dollars)

Year	Capital Expenditures			Repair and Maintenance Expenditures			Capital, Repair and Maintenance Expenditures		
	Construction	Machinery and Equipment	Sub-total	Construction	Machinery and Equipment	Sub-total	Construction	Machinery and Equipment	Sub-total
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

TABLE 11. - Mechanical equipment, 1948 and 1949

	1948	1949
	No.	No.
Spindles which consumed fibre during the year.....	4,667	4,357
Spindles which consumed no fibre during the year.....	-	302
Twisting and doubling spindles.....	741	1,792
Looms.....	10	11
Braiding machines.....	192	189
Rope machines.....	138	149
Winding machines.....	382	359
Netting.....	-	8



APPENDIX

Cordage, rope and twine manufacturers operating in Canada in 1949

Name of firm	Location	Products made
Newfoundland:		
Colonial Cordage Company Ltd.	St. Johns	Twines, ropes
Nova Scotia:		
Consumers' Cordage Co., Ltd. (H.O. 132 St. James St. W., Montreal, Quebec)	Wyse Road, Dartmouth	Binder twine, twines, ropes
Quebec:		
Bolduc, The C.N. Manufacturing Co.	12 College St., Lennoxville	Rope
Ontario:		
Brantford Cordage Co., Ltd., The	111 Brant St., Brantford	Binder twine, twines
Brooks Limited, John S.	722 Broad St., E., Dunnville	Fish netting
Derrett Cordage Co.	6 Bartlett Avenue, Toronto	Twines, rope, etc.
Doon Twines Ltd.	50 Ottawa St. S., Kitchener	Yarns, twines, rope
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