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GENERAL MANUFACTURES BRANCH

REPORT
ON THE
CORDAGE, ROPE & TWINE INDUSTRY
IN
CANADA
1944



OTTAWA
1945

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GENERAL LANDS DIVISION

REPORT

ON THE

LANDS

IN THE PROVINCE OF ALBERTA

IN

CANADA

1905



OTTAWA
1905

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

14 - 1720

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THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1944.

The ten establishments listed in the cordage, rope and twine industry in 1944 reported a gross value of production of \$13,592,813. Persons employed numbered 1,741 with salaries and wages paid amounting to \$2,637,162. Materials used had a value at the factory of \$8,010,081, while the value added by manufacture amounted to \$5,422,835.

Both the physical volume and dollar value of production were higher in 1944. Compared with the previous year there was an increase of 7.4 per cent in the gross value of production and about 6 per cent in the volume. The increased output is reflected in an increase of 210 in the number of employees and \$1,122,593 in the value added by manufacture.

Ontario is the leading producer of cordage, rope and twine. The six plants located there in 1944 produced 77.8 per cent of the total output, and furnished employment to 81.8 per cent of the employees engaged in the industry.

From the standpoint of both volume and value, binder twine is the principal product manufactured by this industry. In 1944 there were produced 75,585,193 pounds, valued at the factory at \$6,768,603, at an average selling price of 8.95 cents per pound. The output of binder twine represented 49.8 per cent of the total value of the products made in 1944. The output of rope totalled 22,704,719 pounds, valued at \$4,167,175; twines for sale 6,477,207 pounds, valued at \$1,807,495 and all other products had a value of \$849,540. Compared with 1943, the output of binder twine was 1 per cent higher. Twines made for sale were 20.2 per cent higher, while the production of rope increased 24.5 per cent. Table 3 gives detailed statistics of production for 1943 and 1944.

Hard fibres such as Manilla hemp, Mexican, Java, African and Cuban sisal, etc., constitute the principal materials used by the industry. The amount used in 1944 was valued at \$5,071,946 or over 63.4 per cent of the total cost of materials used.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1944

Table 1. - Principal Statistics Representative Years, 1921 - 1944.

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
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

CANADA	11	13,552,590	1,531	2,279,708	8,197,636	12,650,931
Ontario	6	11,481,918	1,263	1,895,259	6,255,632	9,892,220
Other Provinces	5	2,070,672	268	384,449	1,942,004	2,758,711

1944

CANADA	10	(2)	1,741	2,637,162	8,010,081	13,592,813
Ontario	6	-	1,425	2,219,504	6,102,153	10,579,564
Other Provinces(1)	4	-	316	417,658	1,907,928	3,013,249

(1) Includes two establishments in Quebec, one in Nova Scotia and one in British Columbia.

(2) Information not collected.

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 CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1944

Table 2. - Comparison of Principal Statistics, 1943 and 1944

Items		1 9 4 3	1 9 4 4	+ Increase - Decrease
Establishments reporting	No.	11	10	- 1
Employees on salaries -				
Total	No.	150	142	- 8
Male	No.	101	88	- 13
Female	No.	49	54	+ 5
Total salaries	\$	411,100	396,301	- 14,799
Employees on wages -				
Monthly average	No.	1,381	1,599	+ 218
Male	No.	798	866	+ 68
Female	No.	583	733	+ 150
Total wages	\$	1,868,608	2,240,861	+ 372,253
Power equipment -				
Units	No.	493	501	+ 8
Horse-power capacity	H.P.	8,376	8,705	+ 329
Cost of fuel and electricity	\$	153,053	159,897	+ 6,844
Cost of materials used	\$	8,197,636	8,010,081	- 187,555
Gross value of production	\$	12,650,931	13,592,813	+ 941,882
Value added by manufacture (1)	\$	4,300,242	5,422,835	+ 1,122,593

Table 3. - Production, 1943 and 1944

Principal Products	Unit of Measure	1 9 4 3		1 9 4 4	
		Quantity	Selling Value at Factory(2)	Quantity	Selling Value at Factory(2)
Binder twine -			\$		\$
All sisal	lb.	19,509,317	2,583,274	223,750	32,020
Chiefly sisal	"	55,303,917	4,518,779	75,361,443	6,736,583
Twines for sale -					
Hemp	"	158,005	113,242	200,048	139,965
Sisal	"	123,572	20,579	-	-
Jute	"	4,988,163	1,345,111	6,164,760	1,624,530
All other	"	119,459	75,662	112,409	43,000
Rope -					
Manila	"	1,775,350	284,073	1,821,556	340,654
Sisal	"	15,144,138	2,350,975	18,548,112	2,969,324
Cotton	"	83,800	39,666	127,423	61,048
Jute	"	587,910	94,658	1,126,843	173,907
Hemp	"	599,050	442,587	755,786	553,800
All other	"	43,001	13,003	324,999	68,442
All other products, unable to specify	-	-	769,322	-	849,540
TOTAL PRODUCTION	-	-	12,650,931	-	13,592,813

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

(2) Includes subsidies.

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.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1944

Table 4. - Consumption of Binder Twine in Canada for the Years, 1942-1944

	1 9 4 2		1 9 4 3		1 9 4 4	
	Quantity	Value	Quantity	Value	Quantity	Value
	Cwt.	\$	Cwt.	\$	Cwt.	\$
Production	811,021	7,479,666	748,132	7,102,053	755,852	6,768,603
plus						
Imports	-	-	22,515	195,593	-	-
TOTAL	811,021	7,479,666	770,647	7,297,646	755,852	6,768,603
less						
Exports	323,165	2,744,940	181,356	1,770,419	118,864	1,244,293
AVAILABLE FOR CONSUMPTION	487,866	4,734,726	589,291	5,527,227	636,968	5,524,310

Table 5. - Materials Used, 1943 and 1944

Principal Materials	Unit of Measure	1 9 4 3		1 9 4 4	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
			\$		\$
HARD FIBRES					
Manila hemp	lb.	1,596,046	155,625	1,660,566	156,773
African hemp	"	795,884	48,469	(3)	(3)
Java sisal (1)	"	5,121,313	478,431	2,754,325	253,035
Mexican sisal (2)	"	45,474,695	3,759,977	53,080,702	3,451,485
African sisal	"	12,547,576	992,910	13,411,577	1,132,079
Cuban sisal	"	2,338,931	197,225	(3)	(3)
Other hemp and sisal	"	1,583,736	116,602	911,664	78,574
SOFT FIBRES					
Hemp, hemp tow, flax, flax tow and jute	lb.	5,712,336	749,911	11,185,279	1,264,939
Twines, cotton and linen ...	"	64,505	125,025	94,614	146,042
Yarns, purchased -					
Flax, hemp and jute	"	2,831,342	738,253	3,509,647	813,793
Cotton and other	-	-	179,228	385,702	76,099
Oils	-	-	227,444	-	234,855
Wax	-	-	11,287	-	10,712
Degras	-	-	20,847	-	12,166
All other materials and supplies	-	-	72,165	-	122,711
Packing and shipping materials -					
Burlap	-	-	17,880	-	32,413
Other packing and shipping materials	-	-	306,357	-	234,405
TOTAL COST OF MATERIALS USED					
	-	-	8,197,636	-	8,010,081

(1) Includes some Cantala sisal in 1943.

(2) Includes some Carrizal sisal in 1943.

(3) Included in "Other hemp and sisal".

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1944

Table 6. - Capital Invested, Representative Years, 1921 - 1944.

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
1939	4,725,034	2,976,397	2,674,669		10,376,100
1940	5,030,658	4,634,890	2,525,006		12,190,563
<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
<u>1 9 4 2</u>					
CANADA	4,489,212	5,142,095 (2)	3,655,236		13,286,543
Ontario	3,936,643	4,161,633	3,050,659		11,148,935
Other Provinces ..	552,569	980,462	604,577		2,137,608
<u>1 9 4 3</u>					
CANADA	4,508,493	3,975,830 (3)	5,068,267		13,552,590
Ontario	3,960,236	3,340,108	4,181,574		11,481,918
Other Provinces ..	548,257	635,722	886,693		2,070,672
1944	Information Not Collected				

- (1) The value of finished products on hand amounted to 3,090,111
 (2) " " " " " " " " " " 1,870,645
 (3) " " " " " " " " " " 1,398,243

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1944

Table 7. - Employees by Sex and Remuneration, 1943 and 1944.

		1 9 4 3	1 9 4 4
Salaried Employees -			
Total	No.	150	142
Male	No.	101	88
Female	No.	49	54
Total salaries	\$	411,100	396,301
Wage-earners -			
Monthly average	No.	1,381	1,599
Male	No.	798	866
Female	No.	583	733
Total wages	\$	1,868,608	2,240,861
All Employees -			
Total	No.	1,531	1,741
Male	No.	899	954
Female	No.	632	787
Total salaries and wages	\$	2,279,708	2,637,162

Table 8. - Monthly Employment of Wage-earners, 1942-1944

	1 9 4 2			1 9 4 3			1 9 4 4		
Months	Male No.	Female No.	Total No.	Male No.	Female No.	Total No.	Male No.	Female No.	Total No.
January	935	485	1,420	836	565	1,401	910	666	1,576
February	927	501	1,428	822	560	1,382	915	744	1,659
March	926	545	1,471	797	553	1,350	950	714	1,664
April	916	549	1,465	797	527	1,324	875	742	1,617
May	922	607	1,529	733	515	1,248	867	708	1,575
June	933	644	1,577	769	552	1,321	854	753	1,607
July	920	660	1,580	830	556	1,386	886	795	1,681
August	856	610	1,466	811	607	1,418	828	780	1,608
September	827	557	1,384	754	589	1,343	787	785	1,572
October	805	550	1,355	755	653	1,408	807	809	1,616
November	798	547	1,345	815	644	1,459	854	626	1,480
December	810	530	1,340	859	664	1,523	847	664	1,511
MONTHLY AVERAGE ..	881	566	1,447	798	583	1,381	866	733	1,599

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1944

Table 9. - Number of Wage-earners during One Week in Month of Highest Employment with their Hours of Work per Week and Average Weekly Earnings

Number of Hours Worked per Week	1 9 4 3		1 9 4 4	
	Male	Female	Male	Female
	No.	No.	No.	No.
30 hours or less	28	64	67	131
31 - 43 hours	24	48	46	65
44 hours	3	11	11	36
45 - 47 hours	15	25	21	12
48 hours	90	51	221	222
49 - 50 hours	75	75	433	381
51 - 54 hours	313	274	34	6
55 hours	178	137	14	7
56 - 64 hours	91	21	120	26
65 hours and over	21	-	34	1
Average hours per week	52.1	48.7	48.9	44.7
Average weekly earnings \$	29.46	21.82	30.36	22.25

Table 10. - Power Installation, 1943 and 1944

Classes of Power	1 9 4 3		1 9 4 4	
	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
Diesel Engines	10	13	10	13
Electric motors, operated by purchased power -				
In use	462	7,673	462	7,755
Idle	20	490	28	737
TOTAL POWER USED IN MANUFACTURING	493	8,376	501	8,705
Boiler installation -				
In use	16	1,848	5	660
Idle	5	550	-	-

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1944

Table 11. - Consumption of Fuel and Electricity, 1943 and 1944

Kinds of Fuel	Unit of Measure	1943		1944	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
			\$		\$
Coal -	Ton				
Bituminous	(2000 lbs.)	5,495	41,072	6,367	47,253
Gasoline (including gasoline used in cars and trucks)	Imp. Gal.	6,215	2,093	6,710	2,245
Kerosene or coal oil	"	270	50	381	72
Wood	Cord	1	19	-	-
TOTAL COST OF FUEL	-	-	43,234	-	49,570
Electricity purchased (including service charges) Kw.H.		12,431,730	109,819	12,702,335	110,327
TOTAL COST OF FUEL AND ELECTRICITY	-	-	153,053	-	159,897

Table 12. - Mechanical Equipment, 1943 and 1944

	1943	1944
	No.	No.
Spindles which consumed fibre during the year ...	4,081	4,139
Spindles which consumed no fibre during the year.	332	262
Twisting and doubling spindles	638	634
Braiding machines	176	177
Rope machines	135	137
Winding machines	326	316
Netting machines	6	30

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1944

A P P E N D I X

Cordage, Rope and Twine Manufacturers Operating in Canada in 1944

<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, ropes.
<u>QUEBEC</u>		
Bolduc, The C. N., Manufacturing Company Consumers' Cordage Co., Ltd.	12 College St., Lennoxville 2143 St. Patrick St., Montreal	Rope Binder twine, Rope, twine, etc.
<u>ONTARIO</u>		
Brantford Cordage Co., Ltd., The Brooks, Limited, John S. Derrett, Limited Doon Twines, Limited	111 Brant Street, Brantford 722 Broad St., E., Dunnville 6 Bartlett Avenue, Toronto 50 Ottawa St. S., Kitchener	Binder twine. Fish netting. Twines, rope. Yarns, twines, rope.
International Harvester Co. of Canada, Limited Plymouth Cordage Company	Hillyard Street, Hamilton 229 Plymouth Road, Welland	Binder twine. Binder twine, rope, etc.
<u>BRITISH COLUMBIA</u>		
Canada Western Cordage Co., Ltd. (H.O. 20 Water Street, Vancouver.)	Braid Street, New Westminster	Twines, rope,



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