

34-203

C.2

Published by Authority of the HON. W.D. EULER, M.P.,
Minister of Trade and Commerce.



CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

GENERAL MANUFACTURES BRANCH

REPORT

ON THE

CORDAGE, ROPE & TWINE INDUSTRY

IN

CANADA

1938



OTTAWA
1939

Price 25 cents

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.

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.

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

Dominion Statistician:	R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.)
Chief, General Manufactures Branch:	A. Cohen, B.Com.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1938.

The ten establishments listed in the cordage, rope and twine industry in 1938 reported a gross value of production of \$4,910,962, and a capital investment in fixed and current assets of \$10,437,106. Persons employed in the industry numbered 882 with a salary and wage bill amounting to \$1,007,597, while materials used had a value at the factory of \$3,057,839. The value added by manufacture amounted to \$1,753,433.

Both the volume and value of production were considerably lower in 1938. Compared with the previous year there was a decrease of \$1,668,005 or 25.4 per cent, in the gross value of production. Reflected in the curtailed operations were decreases of 148 in the number of persons employed, \$124,838 in the salaries and wages paid, \$808,945 in the value added by manufacture and \$817,372 in the capital invested. The decrease in the capital invested was due to a decrease of \$1,719,992 in the stocks of raw materials and finished products on hand and a decrease of \$13,297 in the fixed assets. Working capital, consisting of cash, bills and accounts receivable, etc. were \$915,917 higher.

Ontario is the leading producer of cordage, rope and twine. The six plants located there produced in 1938, 82 per cent of the total output, they furnished employment to 83 per cent of the employees and contributed 90 per cent of the total capital invested in the industry.

From the standpoint of both volume and value, binder twine is the principal product manufactured by this industry. In 1938 there were produced 41,076,952 pounds, valued at the factory at \$2,958,001 or at an average selling price of 7.2 cents per pound as against 7.6 cents per pound in 1937. The output of binder twine represented 60.0 per cent of the total value of the products made in 1938. The output of rope totalled 6,787,191 pounds valued at \$1,108,737, twines for sale 4,464,212 pounds, valued at \$594,959 and all other products had a value of \$249,265. Compared with 1937, the output of binder twine was 19.4 per cent lower. Twines made for sale were 15.4 per cent lower while the production of rope decreased 37.4 per cent. Table 3 gives detailed statistics of production for 1937 and 1938, while table 4 gives the consumption of binder twine in Canada for the past few years.

Hard fibres such as manila hemp, African hemp and sisal, Java and Mexican sisal, etc., constitute the principal materials used by the industry. The amount used in 1938 was valued at \$2,524,545 or over 82 per cent of the total cost of materials used.

Imports and exports of finished products and raw materials used by the industry during 1937 and 1938 are given in tables 13 and 14.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1938.

Table 1. - Principal Statistics, 1927-1938.

Year and Provinces	Estab-lish-ments No.	Capital Invested \$	Em- ployees No.	Salaries and Wages \$	Cost of Materials Used \$	Gross Value of Production \$
1927	14	14,890,220	1,440	1,558,987	7,499,649	10,827,418
1928	14	12,173,549	1,330	1,533,017	7,624,155	10,839,961
1929	13	13,066,423	1,368	1,518,280	7,798,893	11,798,165
1930	13	12,281,660	1,058	1,182,538	6,059,887	8,551,349
1931	12	11,016,184	968	1,089,292	3,889,767	5,796,490
1932	12	10,184,932	998	1,104,650	2,680,830	5,017,931
1933	11	9,839,262	1,015	1,027,460	2,451,395	4,740,612
1934	11	10,416,346	952	981,653	2,532,887	4,818,586
1935	11	10,991,086	1,001	1,022,264	2,628,585	5,127,087
1936	11	9,949,490	1,036	1,127,172	3,408,977	6,543,198
<u>1937</u>						
CANADA	10	11,254,478	1,030	1,132,435	3,907,340	6,578,967
Ontario	6	9,932,386	853	923,011	3,154,914	5,167,963
Other Provinces (x) .	4	1,322,092	177	209,424	752,426	1,411,004
<u>1938</u>						
CANADA	10	10,437,106	882	1,007,597	3,057,839	4,910,962
Ontario	6	9,384,654	735	846,973	2,603,308	4,005,481
Other Provinces (x) .	4	1,052,452	147	160,624	454,531	905,481

(x) Included in 1937 and 1938
 Quebec 2 establishments.
 Nova Scotia 1 establishment.
 British Columbia 1 establishment.

Table 2. - Comparison of Principal Statistics, 1937 and 1938.

Items	1937	1938	+ Increase - Decrease
Establishments reporting No.	10	10	-
Capital invested \$	11,254,478	10,437,106	- 817,372
Employees on salaries -			
Total No.	114	112	- 2
Male No.	88	88	-
Female No.	26	24	- 2
Total salaries \$	243,495	269,162	+ 25,667
Employees on wages -			
Monthly average No.	916	770	- 146
Male No.	656	557	- 99
Female No.	260	213	- 47
Total wages \$	888,940	738,435	- 150,505
Power equipment -			
Units No.	312	325	+ 13
Horse-power capacity H.P.	7,561	7,486	- 75
Cost of fuel and electricity \$	106,245	96,687	- 9,559
Cost of materials used \$	3,907,340	3,057,839	- 849,501
Gross value of production \$	6,578,967	4,910,962	- 1,668,005
Value added by manufacture (A) \$	2,565,381	1,753,435	- 808,945

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

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1938.

Table 3. - Production, 1937 and 1938.

Principal Products	Unit of Measure	1 9 3 7		1 9 3 8	
		Quantity	Selling Value at Factory	Quantity	Selling Value at Factory
			\$		\$
Binder twine -					
Chiefly sisal	Pound	39,009,622	2,951,211	30,384,385	2,192,584
All sisal and other ..	"	11,958,116	939,119	10,692,267	755,417
Twines for sale -					
Flax, hemp, jute, sisal, etc.	"	5,276,419	717,310	4,464,212	594,959
Rope -					
Manila	"	8,739,083	1,348,271	5,294,127	852,502
Sisal	"	1,761,270	257,135	1,165,028	175,412
Cotton	"	(x)	(x)	99,181	34,028
Jute	"	105,242	11,852	(x)	(x)
Hemp	"	189,205	36,577	172,585	40,301
All other	"	50,214	17,175	56,270	6,494
All other products, unable to specify	-	-	300,317	-	249,265
TOTAL PRODUCTION ..	-	-	6,578,967	-	4,910,962

(x) Less than three firms reporting. Included in "All other".

Table 4. - Consumption of Binder Twine in Canada for the Years 1936-1938.

	1 9 3 6		1 9 3 7		1 9 3 8	
	Quantity	Value	Quantity	Value	Quantity	Value
	Cwt.	\$	Cwt.	\$	Cwt.	\$
Production	643,650	4,493,412	509,677	3,890,330	410,769	2,958,001
plus						
Imports	286,679	2,162,354	126,698	1,020,670	196,159	1,268,925
TOTAL	930,329	6,655,766	636,375	4,911,000	606,928	4,226,926
less						
Exports	161,692	1,115,514	159,830	1,153,343	159,428	1,047,284
AVAILABLE FOR CONSUMPTION	768,637	5,540,252	476,545	3,757,657	447,500	3,179,642

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1938.

Table 5. - Materials Used, 1937 and 1938.

Principal Materials	Unit of Measure	1 9 3 7		1 9 3 8	
		Quantity	Cost Value	Quantity	Cost Value
			at Factory		at Factory
			\$		\$
HARD FIBRES -					
Manila hemp	Pound	9,975,470	735,417	5,349,629	424,956
New Zealand hemp	"	306,872	17,771	213,058	12,724
African hemp	"	14,756,582	851,365	16,847,334	963,847
Java sisal	"	7,416,442	416,966	6,521,169	402,753
Mexican sisal	"	17,027,164	896,201	11,100,593	592,959
Other hard fibres	"	5,789,602	321,764	2,380,556	127,303
SOFT FIBRES -					
Hemp, hemp tow, flax and flax tow	Pound	392,243	38,420)	3,128,032	143,564
Jute	"	2,963,531	128,374)		
Twines, cotton and linen ..	"	76,063	67,130	(x)	(x)
Yarns, purchased -					
Flax, hemp and jute	Pound	740,329	71,683	413,427	35,855
Cotton and other	-	-	38,244	-	30,681
Oils	-	-	112,505	-	95,502
Wax	-	-	8,023	-	2,765
Degras	-	-	6,935	-	4,741
Soap, starch, dyes and other chemicals	-	-	12,230	-	1,287
All other materials and supplies	-	-	83,806	-	138,594
Packing and shipping materials:					
Burlap	-	-	72,512	-	55,427
Other packing and shipping materials	-	-	27,994	-	24,878
TOTAL COST OF MATERIALS USED	-	-	3,907,340	-	3,057,839

(x) Less than three firms reporting. Included in "All other".

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1938.

Table 6. - Capital Invested, 1927-1938.

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.	
	\$	\$	\$	\$
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
1931	5,300,531	2,191,861	3,523,792	11,016,184
1932	5,085,458	1,473,381	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
<u>1936</u>				
CANADA	4,674,299	3,644,973	1,630,218	9,949,490
Ontario	4,120,567	3,150,483	1,541,648	8,812,698
Other Provinces	553,732	494,490	88,570	1,136,792
<u>1937</u>				
CANADA	4,679,711	5,175,204	1,399,563	11,254,478
Ontario	4,117,149	4,485,530	1,329,707	9,932,386
Other Provinces	562,562	689,674	69,856	1,322,092
<u>1938</u>				
CANADA	4,666,414	3,455,212	2,315,480	10,437,106
Ontario	4,167,380	3,107,939	2,109,335	9,384,654
Other Provinces	499,034	347,273	206,145	1,052,452

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1938.

Table 7. - Employees by Sex and Remuneration, 1937 and 1938.

	1 9 3 7	1 9 3 8
Salaried Employees -		
Total No.	114	112
Male No.	88	88
Female No.	26	24
Total salaries \$	243,495	239,132
Wage-earners -		
Monthly average No.	916	770
Male No.	656	557
Female No.	260	213
Total wages \$	888,940	738,435
All Employees -		
Total No.	1,030	882
Male No.	744	645
Female No.	286	237
Salaries and wages \$	1,132,435	1,007,597

Table 8. - Monthly Employment of Wage-earners, 1936-1938.

Months	1 9 3 6			1 9 3 7			1 9 3 8		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	No.	No.	No.	No.	No.	No.	No.	No.	No.
January	634	281	915	664	273	937	600	247	847
February ...	626	280	906	665	273	938	579	240	819
March	635	279	914	669	270	939	573	230	803
Aoril	665	314	979	674	272	946	575	231	806
May	660	314	974	675	270	945	571	230	801
June	657	310	967	683	271	954	614	250	864
July	663	319	982	670	258	928	612	246	858
August	631	293	924	505	158	663	616	248	864
September ..	618	292	910	637	256	893	370	75	445
October	631	269	900	655	266	921	469	146	615
November ...	625	274	899	677	265	942	565	215	780
December ...	645	271	916	631	272	903	564	215	779
MONTHLY AVERAGE ..	642	291	933	656	260	916	557	213	770

THE CORDAGE, ROPE AND T.WINE INDUSTRY IN CANADA, 1938.

Table 9. - Average Weekly Earnings and Number of Wage-earners in the Month of Highest Employment with their Regular Hours of Work, 1938.

Number of Hours Worked per Week	Male	Female
	No.	No.
30 hours or less	-	-
31 - 43 hours	105	60
44 hours	69	17
45 - 47 hours	179	11
48 hours	50	2
49 - 50 hours	139	110
51 - 54 hours	-	-
55 hours ..	55	39
56 - 64 hours	24	-
65 hours and over	-	-
Average hours per week	46.6	46.7
Average weekly earnings	\$20.07	\$14.74

The above table does not include overtime.

Table 10. - Power Installation, 1937 and 1938.

Classes of Power	1937		1938	
	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
Electric motors operated by purchased power (x) .	300	7,151	306	6,944
TOTAL POWER USED IN MANUFACTURING	301	7,351	307	7,144
Boiler installation	13	2,034	12	1,849

(x) In addition to these figures, there were also in 1938, 18 motors with a rating of 342 horse-power and 1 boiler with a rating of 150 horse power in reserve or idle.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1938.

Table 11. - Consumption of Fuel and Electricity, 1937 and 1938.

Kinds of Fuel	Unit of Measure	1937		1938	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
Coal -	Ton				
Bituminous	(2000 lbs.)	4,606	24,843	4,802	27,607
Anthracite	"	-	-	-	-
Coke (for fuel only) ...	"	-	-	-	-
Fuel and diesel oil	Imp. Gal.	-	-	-	-
Other fuel	-	-	28	-	25
TOTAL COST OF FUEL	-		24,871	-	27,632
Electricity purchased including service charges)	Kw.H.	7,954,577	81,375	6,582,289	69,055
TOTAL COST OF FUEL AND ELECTRICITY ...	-	-	106,246	-	96,687

Table 12. - Mechanical Equipment, 1937 and 1938.

	1937	1938
	No.	No.
Spindles which consumed fibre during the year	4,109	3,910
Spindles which consumed no fibre during the year	401	630
Twisting and doubling spindles.	623	639
Braiding machines	126	130
Rope machine	111	103
Winding machines	565	500
All other	11	12
TOTAL ..	5,946	5,924

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1938.

Table 13. - Imports of Cordage, Rope and Twine, 1937 and 1938.

Articles Imported	Unit of Measure	1 9 3 7		1 9 3 8	
		Quantity	Value	Quantity	Value
			\$		\$
Fibrilla, flax fibre and flax tow	Cwt.	5,444	9,989	5,230	8,151
Hemp, dressed or undressed	"	14,288	119,481	17,125	100,736
Jute and jute butts	"	34,951	116,701	27,281	108,454
Oakum of flax, hemp or jute	"	12,312	81,939	11,059	74,254
Sisal, istle and tampico fibre	"	373,328	2,075,240	411,604	1,751,588
Manila fibre	"	76,073	598,389	33,009	192,475
Vegetable fibres, n.o.p. ...	"	19,893	133,369	14,700	80,773
Coir and coir yarn	"	2,626	10,039	3,715	16,607
Rovings, yarns and warps, wholly of jute, not more advanced than singles, n.o.p., not to contain silk, artificial silk nor wool	Lb.	1,636,090	133,733	1,134,580	106,620
Rovings, yarns and warps, wholly or in part of vegetable fibres, not more advanced than singles, n.o.p., not to contain silk, artificial silk nor wool	Lb.	295,655	48,598	135,115	24,198
Rovings, yarns and warps, wholly of cotton, including threads, generally used for sewing, stitching, packaging and other purposes, n.o.p.		711,402	304,978	646,389	279,865
Rovings, yarns and warps, wholly or in part of vegetable fibres, including yarn twist, cords and twine, generally used for packaging and other purposes, n.o.p., not to contain silk, artificial silk nor wool	Lb.	672,013	130,330	565,713	97,590
Cord and twine, cotton, n.o.p.	"	45,369	14,940	82,423	19,558
Rovings, yarns and warps, wholly of jute, including yarn twist, cords and twines, generally used for packaging and other purposes, n.o.p.	Lb.	423,979	39,357	331,117	28,735

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1938.

Table 13. - Imports of Cordage, Rope and Twine, 1937 and 1938 (Concl.)

Articles Imported	Unit of Measure	1937		1938	
		Quantity	Value	Quantity	Value
			\$		\$
Sail twine of hemp or flax for the manufacture of boats' and ships' sails	Lb.	1,036	382	192	79
Binder twine	Cwt.	126,698	1,020,670	196,159	1,268,925
Fishing nets and nettings of all kinds, threads, twines, marlines, fishing lines of vegetable fibre, not to include such articles used for sportsmen's purposes .	-	-	1,665,990	-	1,479,759
Cordage, manila, sisal and New Zealand fibre, exceeding one inch in circumference,	Lb.	869,067	97,306	695,984	68,534
Cordage, exceeding one inch in circumference, wholly of vegetable fibre, n.o.p. (From Feb. 26, 1937)	Lb.	552,347	66,263	850,431	92,797
Cordage, exceeding one inch in circumference, n.o.p. .	Lb.	113,451	14,537	32,615	4,534
Rope and cordage of cotton, hemp, manila, or other vegetable fibre, not exceeding one and one-half inches in circumference, to be used for fishing purposes, or for the construction and repair of fishing nets; the foregoing not to include such articles used for sportsmen's purposes	Lb.	1,008,679	160,724	771,584	126,154

Table 14. - Exports of Cordage, Rope and Twine, 1937 and 1938.

Articles Exported	Unit of Measure	1937		1938	
		Quantity	Value	Quantity	Value
			\$		\$
Fibre and tow of flax or hemp	Cwt.	12,708	59,369	14,076	88,610
Binder twine	"	159,830	1,153,343	159,428	1,047,284
Cordage, rope and twine, n.o.p.	-	-	94,161	-	71,160

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1938.

A P P E N D I X

Cordage, Rope and Twine Manufacturers Operating in Canada in 1938.

<u>Name of Firm</u>	<u>Location</u>	<u>Products Made</u>
<u>NOVA SCOTIA</u>		
Consumers' Cordage Company, Ltd.,	Wyse Road, Dartmouth.	Cordage.
<u>QUEBEC</u>		
C.A. Turner Manufacturing Company, Reg'd.,	199 Victoria St., Sherbrooke.	Cordage.
The C.N. Bolduc Manufacturing Co.,	12 College St., Lennoxville.	Cordage.
<u>ONTARIO</u>		
The Brantford Cordage Co. Ltd.,	111 Brant Street, Brantford.	Binder twine
John S. Brooks,	Dunnville.	Fish nets.
International Harvester Company of Canada, Limited,	Sherman Avenue North, Hamilton	Binder twine.
Doon Twines Limited,	50 Ottawa Street, Kitchener.	Twine, Ropes, Yarns.
Derett Limited,	6 Bartlett Avenue, Toronto.	Twine, Cordage.
Plymouth Cordage Company,	229 Plymouth Road, Welland.	Binder twine, Cordage, Rope.
<u>BRITISH COLUMBIA</u>		
Canada Western Cordage Company Limited,	Braid Street, New Westminster.	Binder twine, Lines, Rope.

STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA



1010754601