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REPORT
on the
CORDAGE, ROPE & TWINE INDUSTRY
in
CANADA
1924

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OTTAWA

1925

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

OTTAWA, CANADA.

Dominion Statistician: R. H. Coats, B.A., F.S.S. (Hon.), F.R.S.C.
 Chief, Census of Industry: J. C. Macpherson.

THE CORDAGE ROPE AND TWINE INDUSTRY
IN CANADA

1924

Ottawa, November 1925.- A report is herewith presented on the Cordage Rope and Twine industry in Canada for the calendar year 1924. No change took place in the number of establishments in operation, the total for the Dominion remaining at 9 as in the previous year with location by provinces as follows,-Ontario 5, Quebec 2, Nova Scotia 1 and British Columbia 1.

PRINCIPAL STATISTICS

A summary of the principal statistics of the industry compared for the calendar years 1923 and 1924 is given in Table I.

Table I, Principal Statistics - Cordage rope and twine industry - 1923 and 1924

		1923	1924
Establishments	No.	9	9
Capital investments	\$	7,329,319	9,416,545
Employees on Salaries - Male	No.	61	56
Female	No.	19	22
Salaries	\$	194,186	156,461
Employees on Wages - average number -			
Male	No.	966	994
Female	No.	259	287
Wages	\$	1,243,442	1,330,241
Cost of Fuel	\$	37,178	29,936
Power installation - Units	No.	104	132
Capacity	H.P.	4,255	5,455
Cost of materials	\$	4,389,703	5,096,892
Gross value of products	\$	7,280,076	8,876,736
Net value of products	\$	2,890,373	3,779,894

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THE CORDAGE ROPE AND TWINE INDUSTRY

Production

There was a marked advance in the value of products for the year 1924 over the amount reported for the previous year, - the net increase amounting to \$1,596,710. The principal item contributory to this increase was "binder twine of all kinds" the value of which rose from \$4,819,760 in 1923 to \$6,698,033 in 1924 an increase of \$1,878,273 in the two year period. In order not to divulge information concerning individual establishments it has been found necessary to combine statistics for the provinces of Quebec, Nova Scotia and British Columbia, and they are shown throughout this report as "other provinces". The quantity and value of the various products of the industry will be found by provinces in Table II for the calendar year 1924.

Table II - Production of Cordage, Rope and Twine by provinces - 1924

Principal Products	Unit of Measure	CANADA		ONTARIO		OTHER PROVINCES X	
		Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
<u>Binder Twine -</u>							
All manila	Lb.	195,300	28,199	152,300	22,199	43,000	6,000
Chiefly manila	"	11,058,700	1,434,862	7,377,900	1,002,368	3,680,800	432,494
All sisal	"	2,435,500	292,214	2,351,300	282,952	84,200	9,262
Chiefly sisal	"	29,163,384	3,640,665	26,929,000	3,394,885	2,234,364	245,780
All other	"	14,568,000	1,302,093	14,568,000	1,302,093	-	-
<u>Twines for sale</u>							
All flax	"	5,511	2,066	5,511	2,066	-	-
All hemp	"	391,185	122,051	359,185	114,371	32,000	7,680
All cotton	"	34,465	15,786	34,465	15,786	-	-
All jute	"	2,643,884	360,590	1,543,366	212,020	1,100,518	148,570
Flax or hemp mixed with jute	"	205,324	24,639	205,324	24,639	-	-
<u>Rope</u>							
Manila	"	5,689,501	965,362	1,960,482	311,557	3,729,019	653,805
Sisal	"	4,174,619	568,646	1,992,672	257,946	2,181,947	310,700
Cotton	"	35,000	15,000	35,000	15,000	-	-
Jute	"	75,532	9,036	52,182	6,234	23,350	2,802
All other	"	218,749	56,200	70,538	20,630	148,211	35,570
All other products	-	-	39,377	-	7,242	-	32,135
T O T A L	-	-	8,876,786	-	6,991,988	-	1,884,798

X Includes, - Quebec 2, Nova Scotia 1, British Columbia 1.

CAPITAL INVESTMENT

The calendar year 1924 showed a considerable expansion in the total capital invested in the industry. The total capitalization in 1923 was \$7,329,319, whilst the amount reported for 1924 was \$9,416,545 an increase of \$2,087,226. Of this amount fixed capital, comprising value of land buildings, fixtures, machinery and tools, was accountable for \$161,920, whilst working capital which consists of materials on hand stocks in process, cash, trading and operating accounts, etc. contributed \$1,925,306. A summary of the capital employed is shown by provinces in Table III for the calendar year 1924.

Table III - Capital employed by provinces - 1924.

Provinces	Land, buildings, fixtures, machinery & tools	Materials in hand, stocks in process, etc.	Cash, trading and operating accounts, etc.	Total Capital
CANADA	3,583,477	3,841,490	1,991,578	9,416,545
Ontario	2,525,428	3,072,998	1,784,493	7,382,919
Other provinces	1,058,049	768,492	207,085	2,033,626

THE CORDAGE ROPE AND TWINE INDUSTRY, 1924.

Employees, Salaries and Wages

The total number of persons employed in the industry is given in Table IV for the calendar years 1923 and 1924 by (a) classes of employment (b) sex and (c) salary and wage payments. The total number of persons employed rose from 1,305 in 1923 to 1,359 in 1924 a net increase of 54. The total payroll also rose from \$1,437,628 in 1923 to \$1,486,702 in 1924 an increase of \$49,074 over the two year period.

Table IV - Employees, salaries and wages - 1923 and 1924.

Classes of employment	1923			1924		
	Male No.	Female No.	Salaries & Wages \$	Male No.	Female No.	Salaries & Wages \$
Salaried employees	61	19	194,186	56	22	156,461
Wage earners (average number)	966	259	1,243,442	994	287	1,330,241
	1,027	278	1,437,628	1,050	309	1,486,702

OTHER EMPLOYMENT STATISTICS

Table V (a) shows the number of wage earners at employment each month by sex for the calendar year 1924. November was the month in which the maximum number was employed with 1,327, whilst the minimum number reported was in July with 1,160. Table V (b) gives the number of days the establishments were in operation during the year, also the number of hours per day and per week normally worked by wage earners.

Table V (a)- Wages earners employed by months - 1924.

Months	Male No.	Female No.	Months	Male No.	Female No.
January	974	287	July	906	274
February	1,022	286	August	1,023	279
March	953	275	September	994	285
April	1,013	267	October	1,011	313
May	1,027	276	November	1,016	311
June	977	281	December	1,008	305
				TOTAL	11,924
Average number employed during the year				994	3,439
					287

Table V (b) Time in operation and hours worked - 1924.

Number of establishments in operation	9	
	Total	Average
Number of days in operation on full time	2,589	287.7
" " " " part "	32	3.6
" " " idle	115	12.7
Number of hours worked by wage earners per day		
or shift	14,257	9.8
" " " " " per week	472	52.4

MATERIALS USED.

The total value of all materials used in the manufacture of cordage rope and twine during the calendar year 1924 was \$5,096,092 being an increase of \$707,169 over the amount reported for the previous year. The province of Ontario with \$3,991,516 provided 78.3 per cent of the total expenditure for all materials used in the Dominion, the remaining 21.7 per cent being distributed over the three other provinces. The schedule of the Industrial Census for the calendar year 1924 did not require the itemizing of materials used, but the information being of such an important character it has been found advisable to collect this information in future questionnaires.

THE CORDAGE, ROPE AND TWINE INDUSTRY 1924.

FUEL STATISTICS

The quantity and value of the various kinds of fuel consumed during the calendar years 1923 and 1924 will be found in Table VI. The total expenditure for all fuel fell from \$37,178 in 1923 to \$29,936 in 1924 a decrease of \$7,242 over the two year period. Bituminous coal was again the principal item of fuel used to the value of \$26,316 which is equivalent to 87.9 per cent of the total outlay for the Dominion.

Table VI - Fuel Consumption - 1923 and 1924

Kinds of fuel	Unit of measure	1923		1924	
		Quantity	Cost Value \$	Quantity	Cost value \$
Bituminous coal.....	ton	4,658	32,993	3,988	26,316
Anthracite coal.....	"	12	207	20	320
Wood.....	cwt	150	525	200	700
Other fuel.....	-	-	3,443	-	2,600
T O T A L	-	-	37,178	-	29,936

POWER INSTALLATION

The power installed in the industry for the calendar year 1924 is shown in Table VII by (a) classes of power (b) number of units in each class and (c) the horse-power capacity according to manufacturers' rating. The total power installed for manufacturing purposes rose from 134 units with 4,255 horse-power in 1923 to 152 units with 5,455 horse-power in 1924 an increase of 28 units and 1,200 horse-power. Electric motors operated by purchased power were the principal sources of motive power in 1924 of which there were 123 units generating 5,029 horse-power. The total cost of electricity purchased during the year was \$93,479 which is an average per rated horse-power of \$18.56 for electric motors operated by purchased power.

Table VII - Power Equipment - 1924

Classes of power	Number of units	Horse-power capacity
Steam engines and turbines	2	260
Oil, gas and gasoline engines	1	1
Hydraulic turbines or water wheels	1	165
Total primary power	4	426
Electric motors operated by purchased power	123	5,029
Total power for manufacturing purposes	132	5,455
Electric motors operated by power generated by the establishments not included in the above totals	20	733
Total electric motor installation	148	5,812

CORDAGE, ROPE AND TWINE INDUSTRY, 1924

IMPORTS AND EXPORTS

The quantity and value of raw, partly manufactured materials and manufactured products of the cordage, rope and twine industry imported into Canada during the calendar year 1924 is given by principal countries of origin in Table VIII (a).

Table VIII (a) - Imports into Canada for consumption, 1924.

	Unit of Measure	United Kingdom		United States		Other Countries	
		Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
Raw Materials:-							
Fabrigilla, flax fibre and flax tow	cwt.	-	-	4,887	23,401	747	1,371
Hemp, dressed or undressed	"	-	-	265,525	2,180,201	4,876	37,102
Jute butts and jute	"	-	-	6,802	34,917	-	-
Fibre, Mexican, istle and tampico	"	688	10,532	2,360	44,645	505	6,016
Manila grass	"	-	-	45,630	413,188	412	3,583
Sisal grass	"	32,255	271,947	215,881	1,676,661	13,532	122,619
Partly Manufactured Materials:-							
Jute or hemp yarn	Lb.	2,897,645	273,539	827,551	111,324	216,923	41,585
Manufactured Articles:-							
Sail twine of hemp or flax	"	1,109	467	266	246	-	-
Binder twine	"	1,024,480	230,630	25,115,749	2,944,485	819,202	95,591
Fishing lines n.c.p.	-	-	818,365	-	1,068,258	-	64,865
Twines and cordage, all kinds n.c.p.	Lb.	1,891,689	240,212	662,881	182,712	128,437	15,158
Twines n.o.p.	-	-	22,702	-	13,960	-	573
Cordage, cotton all kinds	Lb.	258,792	91,487	103,137	56,401	7,105	1,932
T O T A L	-	-	1,959,981	-	8,750,399	-	390,395

THE CORDAGE, ROPE AND TWINE INDUSTRY, 1924.

The quantity and value of partly manufactured materials and manufactured articles, the produce of Canada, exported during the calendar year 1924 is shown by principal countries in Table VIII (b).

Table VIII (b) - Exports by countries - 1924

Articles exported	United Kingdom		United States		Other Countries	
	Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
<u>Partly Manufactured Materials:-</u>						
Flax fibre and flax tow	cwt. 10,164	135,804	20,552	177,163	6,234	110,573
<u>Manufactured Articles:-</u>						
Binders twine	" -	-	101,139	1,198,986	13,615	203,590
Cordage ropes and twine	- -	13,665	-	7,683	-	58,560
T O T A L	- -	149,469	-	1,383,832	-	372,723

CONSUMPTION

The approximate consumption of binder twine in Canada during the calendar years 1922, 1923 and 1924 is given in Table IX.

Table IX - Consumption of Binder Twine in Canada 1922, 1923 and 1924.

	1922		1923		1924	
	Quantity Cwt.	Value \$	Quantity Cwt.	Value \$	Quantity Cwt.	Value \$
Production	318,917	3,491,507	431,455	4,819,760	574,209	6,698,033
Imports	495,891	5,195,887	539,407	5,743,663	269,594	3,270,706
TOTAL	813,808	8,691,387	970,562	10,563,423	843,303	9,968,739
Exports	56,875	569,587	160,432	1,672,700	119,754	1,402,576
Consumption	761,933	8,121,800	810,430	8,890,723	724,049	8,566,163

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