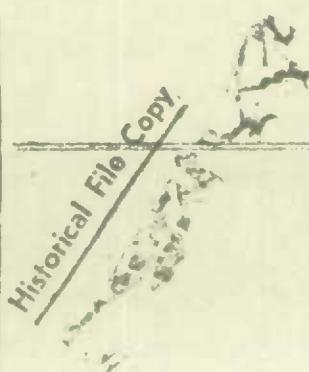


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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY



REPORT
on the
CORDAGE, ROPE & TWINE INDUSTRY
in
CANADA
1923



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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 INDUSTRYIN CANADA1923

Ottawa, January, 1925.- A report is herewith presented on the Cordage Rope and Twine Industry in Canada for the calendar year 1923. Nine establishments reported operations of which 5 were in Ontario, 2 in Quebec and 1 each in Nova Scotia and British Columbia.

PRINCIPAL STATISTICS

A summary of the principal statistics of the Industry is given in Table I for the calendar years 1922 and 1923.

Table I - Principal Statistics - 1922 and 1923

		1922	1923
Establishments	No.	9	9
Capital Investment	\$	7,556,143	7,529,319
Employees on Salaries - Male	No.	61	61
Female	No.	19	19
Salaries	\$	191,993	184,186
Employees on wages - average number -			
Male	No.	776	966
Female	No.	236	259
Wages	\$	882,573	1,243,442
Cost of Fuel		60,069	37,173
Power Installation - Units	No.	118	104
Capacity	H.P.	4,871	4,255
Miscellaneous Expenses	\$	569,814	613,611
Cost of Materials	\$	2,954,440	4,389,705
Value of Products	\$	5,781,161	7,380,076
Value added by manufacture	\$	3,848,721	3,800,377

THE CORDAGE, ROPE AND TWINE INDUSTRY 1923.

PRODUCTION

The quantity and value of the various products of the industry are given by provinces in Table II for the calendar year 1923. To avoid disclosure of information relating to individual establishments statistics for the provinces of Quebec, Nova Scotia and British Columbia are shown throughout this report under the heading of "Other Provinces". The total value of production rose from \$5,781,161 in 1922 to \$7,280,076 in 1923 an increase of \$1,498,915.

Table II - Production of Cordage, Rope and Twine, by provinces - 1923

Principal Products	Unit of Measure	CANADA		ONTARIO		OTHER PROVINCES	
		Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
<u>Binder Twines -</u>							
All manila	lb.	77,775	11,688	8,000	1,090	69,775	10,598
Chiefly manila	"	6,894,286	749,603	3,234,586	355,188	3,659,700	394,415
All sisal	"	647,390	73,571	647,390	73,571	-	-
Chiefly sisal	"	4,914,764	406,922	4,000,000	320,000	914,764	86,922
All other	"	30,611,305	3,577,976	30,611,305	3,577,976	-	-
<u>Commercial Twines</u>							
All flax	"	3,942	1,825	3,942	1,825	-	-
All hemp	"	378,292	120,393	350,792	113,793	27,500	6,600
All jute	"	2,631,190	351,987	1,573,550	203,918	1,057,640	148,069
All cotton	"	60,709	35,646	60,709	35,646	-	-
Italian hemp	"	100,000	40,000	100,000	40,000	-	-
<u>Rope -</u>							
Manila	"	6,315,766	1,062,422	2,102,815	399,147	4,212,951	663,275
Sisal	"	4,944,900	714,012	1,912,485	308,389	3,032,415	405,623
Jute	"	57,803	8,037	5,500	715	52,303	7,322
Soft fibre	"	108,136	24,871	-	-	108,136	24,871
All other	"	138,695	37,964	36,345	13,400	102,350	24,564
All other products	-	-	63,159	-	10,000	-	53,159
T O T A L	-	-	7,280,076	-	5,454,658	-	1,825,418

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

CAPITAL INVESTMENT

The total capital employed in the industry is given by provinces in Table III for the calendar year 1923. Fixed Capital which comprises the value of land, buildings, fixtures, machinery and tools showed an increase over the previous year of \$95,396. Working capital represented by materials on hand, stocks in process, cash trading and operating accounts, etc. decreased by \$322,220 during the same period. The net decrease in total capital amounted to \$226,824.

Table III - Capital employed by Provinces 1923

Provinces	Fixed Capital			Working Capital			\$
	Land, buildings & fixtures	Machinery & Tools	Total	Land, buildings & fixtures	Machinery & Tools	Total	
CANADA	2,263,196	1,158,361	3,421,557	2,143,556	1,764,206	3,907,762	7,329,319
Ontario	1,714,368	679,664	2,394,032	1,442,521	1,576,761	3,019,282	5,413,314
Other provinces	548,828	478,697	1,027,525	701,035	187,445	888,480	1,916,005

THE CORDACE ROPE AND TWINE INDUSTRY 1923

Employees, salaries and wages

The total number of persons employed in the industry is given in Table IV for the calendar years 1922 and 1923 by (a) classes of employment (b) sex and (c) salary and wage payments. There was a net increase of 213 in the number of persons employed and the payroll also increased by £363,063 during the two year period.

Table IV - Employees, salaries and wages, 1922 and 1923

Classes of employment	1922			1923		
	Fe-	Salar-	Fe-	Salar-		
	Male No.	Male No. Wages £	Male No.	Male No. Wages £		
Salaried officers of corporations	9	-	10	-	61,090	
General superintendents, managers, etc.	10	-	11	-	35,392	
Technical experts, engineers, accountants, etc.	3	-	4	-	7,570	
Clerks, stenographers, salesmen, etc.	40	19	35	12	89,534	
Employees on wages (average number)	776	236	882,573	966	259	1,243,442
TOTAL	837	255	1,074,565	1,027	278	1,437,628

OTHER EMPLOYMENT STATISTICS

The total number of wage earners employed in the industry in 1923 is given by sex and by months in Table V(a), The number of days the plants were in operation during the year, together with the number of hours per day or shift and per week normally worked by wage earners is shown in Table V(b).

Table V(a) - Wage earners employed by months - 1923

Months	Male No.	Female No.	Months	Male No.	Female No.
January	769	247	July	366	256
February	783	231	August	364	247
March	874	256	September	965	257
April	1,056	255	October	987	230
May	1,124	256	November	1,050	286
June	1,070	352	December	1,050	288
			TOTAL	11,589	5,105
			Average number employed during year	966	259

Table V(b) - Time in operation and hours worked - 1923

Number of establishments in operation	Total	Average
Number of days in operation -		
On full time	2,602	289.3
On part time	67	7.4
Idle	67	7.4
hours worked by wage earners -		
Per day or shift	84	6.3
Per week	488	51.7

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA 1923

MATERIALS USED

Table VI presents the quantity and value of the principal materials used in the manufacture of cordage, rope and twine, by provinces during the calendar year 1923. The total cost of all materials rose from \$2,934,440 in 1922 to \$4,389,703 in 1923 an increase of \$1,455,263. There was an increase in the value of every item of materials with the exception of Flax, hemp and jute yarns purchased which fell from 2,435,411 lbs. valued at \$202,123 in 1922 to 1,771,077 lbs. worth \$151,795 in 1923, - a decrease in the quantity used of 664,334 lb. and \$50,328 in the cost value.

Table VI - Materials Used - 1923

Principal Materials	CANADA		ONTARIO		OTHER PROVINCES	
	Quantity	Value	Quantity	Value	Quantity	Value
Hard fibres - Manila hemp.....lbs.	19,487.484	1,339,645	13,333.598	1,099,699	6,153.886	539,946
New Zealand hemp....."	2,565.338	182,001	2,565.338	182,001	-	-
African and other hemsps.."	12,057.671	931,733	10,142.561	768,949	1,915.110	162,784
Sisal hemp....."	11,441.402	755,351	8,813.805	574,907	2,630.597	180,444
Soft fibres - Hemp and hemp tow....."	552.904	121,000	452.925	101,505	99.979	19,495
Flax and flax tow....."	3.942	1,643	3.942	1,643	-	-
Jute....."	1,019.186	79,169	717.586	61,089	301.600	15,080
Yarns purchased - Flax, hemp and jute.."	1,771.077	151,795	856.014	76,012	915.063	73,783
Cotton....."	115.721	49,836	60.709	30,582	55.012	19,254
Oils.....	-	149,849	-	113,047	-	36,802
All other materials....."	-	327,681	-	290,351	-	37,350
T O T A L	-	4,389,703	-	3,304,765	-	1,084,938

THE CORDAGE, ROPE AND TWINE INDUSTRY 1923FUEL STATISTICS

The quantity and value of the various kinds of fuel consumed in the industry is given in Table VII for the calendar year 1923. Out of a total expenditure for all fuel of \$37,178 bituminous coal alone accounted for \$33,998. There was a total decrease in fuel costs over the previous year of \$22,891.

Table VII - Fuel Consumption - 1923

Kinds of fuel	Unit of Measure	Quantity	Cost value at the works
Bituminous coal.....	ton	4,658	32,998
Anthracite coal.....	"	12	207
Wood.....	cord	150	525
Other fuel.....	-	-	3,448
T O T A L	-	-	37,178

POWER INSTALLATION

The power installation in the cordage, rope and twine industry in 1923 will be found in Table VIII by (a) classes of power (b) number of units in each class and (c) the horsepower capacity according to manufacturers' rating. There was a noticeable reduction over the two year period 1922-1923 amounting in all to 14 units and 616 horse power.

Table VIII. - Power Installation - 1923.

Classes of power	Number of Units	H.P. capacity according to manufacturers' rating
Steam engines and turbines.....	3	310
Gas engines.....	1	1
Hydraulic turbines and water wheels.....	1	165
Electric motors operated by purchased power	100	3,779
	104	4,255

MISCELLANEOUS EXPENSES

Overhead charges or miscellaneous expenses incurred in the industry during 1923 amounted to \$613,811 which was \$23,697 more than the amount reported for the previous year. Miscellaneous expenses include Rents, taxes of all kinds, insurance premiums, rent of power, telephone charges, advertising and travelling expenses and repairs to buildings and machinery.

CORDAGE, ROPE AND TWINE INDUSTRY 1923

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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 1923 is given by principal countries of origin in Table IX(a)

Table IX(a) - Imports into Canada for Consumption - 1923.

	United Kingdom			United States			Other Countries	
	Quantity	Value		Quantity	Value		Quantity	Value
Raw Materials:-								
Fabrics, flax fibre and flax tow	cwt.	-		2,110	7,691		1,117	5,614
Hemp dressed and undressed	"	-		316,865	2,363,100		8,495	60,797
Jute butts and jute	"	811	4,774	3,671	21,191		-	-
Fibre, Mexican, sisal or tampico	"	431	6,360	3,399	57,939		122	1,832
Manila grass	"	813	9,312	38,779	382,061		3,402	18,112
Sisal grass	"	16,117	130,519	167,442	1,170,424		2,297	19,350
Partly Manufactured Materials:-								
Jute or hemp yarn	lb.	3,125,641	307,745	853,131	138,427		593,307	95,267
Manufactured articles :-								
Sail twine of hemp or flax	"	941	309	399	333		-	-
Rinder twine	"	2,211,000	251,782	51,675,803	5,485,816		53,911	6,065
Fishing twines and ropes	"	-	904,097	-	1,060,274		-	43,067
Twines, n.o.p.	"	-	25,407	-	12,637		-	236
Twines and cordage, all kinds, n.o.p.	lb.	1,925,495	244,669	721,981	129,071		154,742	18,117
Cordage, cotton, all kinds, n.o.p.	"	351,064	114,256	104,117	56,290		2,573	755
T O T A L								
		-	1,998,260	-	10,885,254		-	269,716

CORDAGE, ROPE AND TWINE INDUSTRY 1923

The quantity and value of partly manufactured materials and manufactured articles, the produce of Canada exported during the calendar year 1923 is shown by principal countries in Table IX(B)

Table IX(B) - Exports by Countries - 1923

Articles exported	United Kingdom		United States		Other Countries	
	Quantity	Value	Quantity	Value	Quantity	Value
Partly Manufactured Materials:-		\$		\$		\$
Flax fibre & flax tow	cwt. 1,575	31,687	24,010	227,748	2	30
Manufactured Articles:-						
Binder Twine	" 10,646	93,184	114,213	1,253,866	35,573	325,650
Cordage ropes and twines	" -	19,903	-	13,942	-	55,979
T O T A L	-	144,774	-	1,495,556	-	381,659

CONSUMPTION

The approximate consumption of binder twine in Canada for the calendar years 1921, 1922 and 1923 is given in Table X

Table X - Consumption of Binder Twine in Canada 1921, 1922 and 1923

	1921		1922		1923	
	Quantity Cwt.	Value \$	Quantity Cwt.	Value \$	Quantity Cwt.	Value \$
Production	372,065	6,166,587	318,917	3,491,500	431,455	44,819,760
Imports	467,300	7,372,691	499,391	5,199,887	539,407	5,743,663
TOTAL	839,865	13,539,278	818,808	8,691,387	970,862	10,563,423
Exports	76,220	1,194,475	56,875	569,587	160,432	1,672,700
Consumption	763,645	12,344,803	761,933	8,121,800	810,430	8,890,723

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