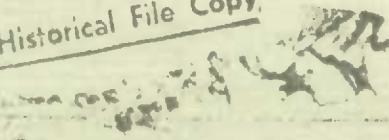


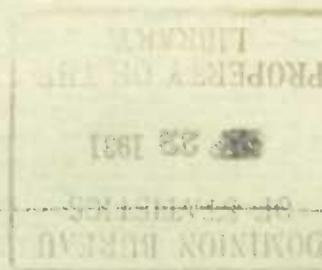
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CANADA



DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

REPORT

on the

CORDAGE, ROPE & TWINE INDUSTRY

in

CANADA

1930

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Published by Authority of the Hon. H. H. Stevens, M.P.,  
Minister of Trade and Commerce

+ + +

OTTAWA

1931

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Armenian Folk Tales



## 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.

ACTING CHIEF, CENSUS OF INDUSTRY: A. Cohen, B. Com.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1930.

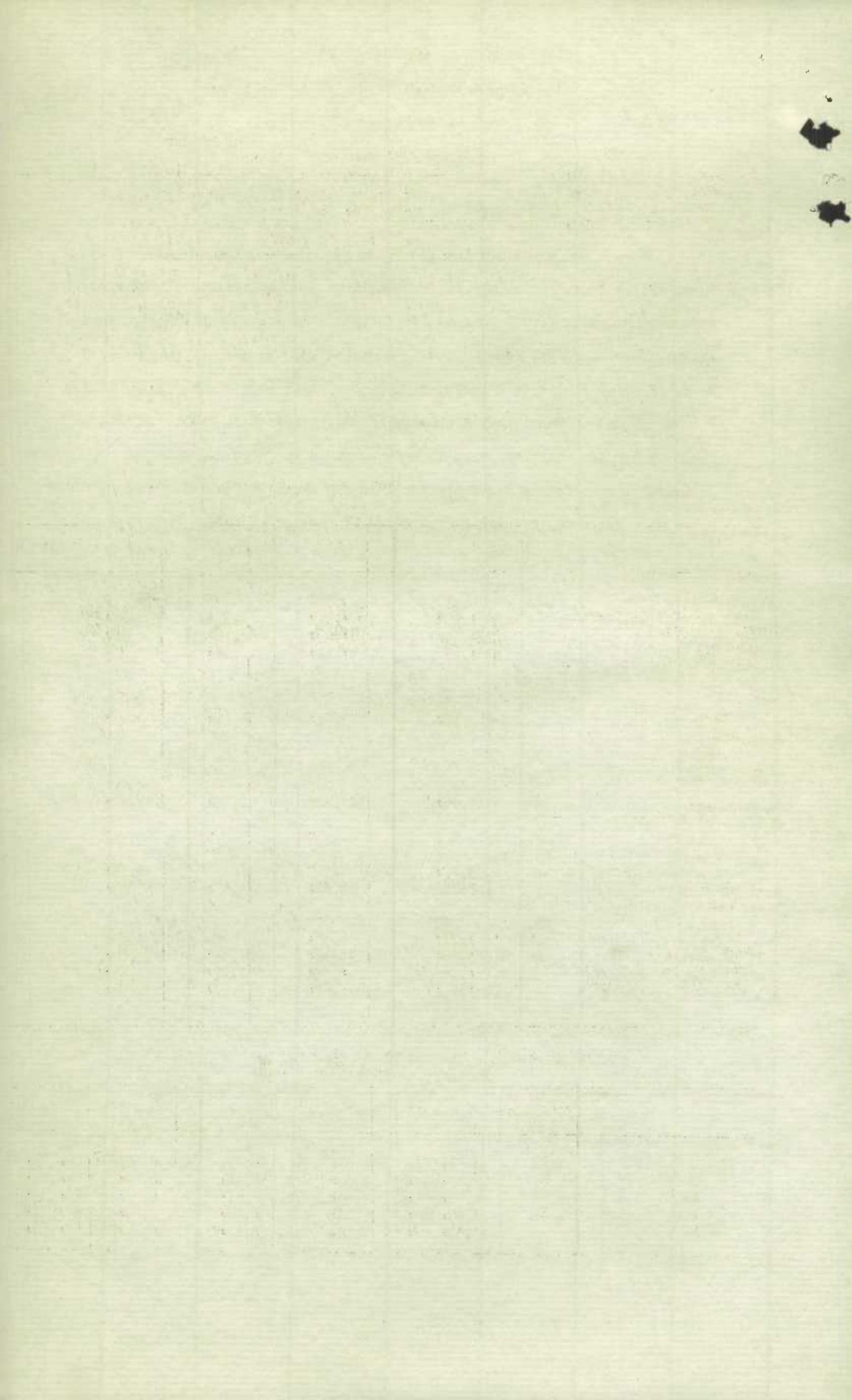
Ottawa, Sept. 1931.—A report is herewith presented on the Cordage, Rope and Twine Industry in Canada for the calendar year 1930. Establishments whose principal products were cordage, rope and twine numbered 13, the same as in the previous year, of which 7 were in Ontario, 3 in Quebec, 1 in Nova Scotia, 1 in British Columbia and 1 in Manitoba. A summary of the principal statistics of the industry for the calendar years 1926-30 is given in Table 2, while the principal statistics by provinces for 1930 are shown in Table 1.

Table 1.—Principal Statistics by Provinces, 1930

		Canada	Ontario	Quebec	Other Provinces
Establishments	No.	13	7	3	3
Capital investment, total	\$	12,281,660	10,648,569	674,524	958,567
Fixed capital	\$	5,274,962	4,189,452	457,181	628,329
Working capital	\$	7,006,698	6,459,117	217,343	330,238
Employees on salaries -					
Male	No.	78	48	10	20
Female	No.	24	16	3	5
Salaries	\$	262,606	173,724	35,426	53,456
Employees on wages -					
Average number					
Male	No.	649	494	65	90
Female	No.	307	287	3	17
Wages	\$	919,962	747,538	66,961	105,463
Outside piece-workers -					
Male	No.	1	-	-	1
Female	No.	5	-	-	5
Amount paid	\$	3,743	-	-	3,743
Cost of fuel and power	\$	108,798	81,887	11,858	15,053
Power installation -					
Units	No.	239	177	27	35
Capacity	H.P.	7,777	6,339	824	614
Cost of materials	\$	6,059,887	5,435,488	287,599	336,800
Gross value of products	\$	8,551,349	7,263,386	561,170	726,793
Net Value of products	\$	2,491,462	1,827,898	273,571	389,993

Table 2—Principal Statistics of Cordage, Rope and Twine Industry - 1926 - 30.

	Establishments	Capital	Employees	Salaries and Wages	Cost of Materials	Gross value of products
	No.	\$	No.	\$	\$	\$
1930	13	12,281,660	1,064	1,186,311	6,059,887	8,551,349
1929	13	13,066,423	1,368	1,518,280	7,798,893	11,769,165
1928	14	12,173,549	1,330	1,533,017	7,624,155	10,659,961
1927	14	14,820,220	1,440	1,558,987	7,428,649	10,827,418
1926	11	15,679,569	1,514	1,591,125	7,566,817	10,574,682



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THE CORDAGE, ROPE AND TWINE INDUSTRY, 1930.

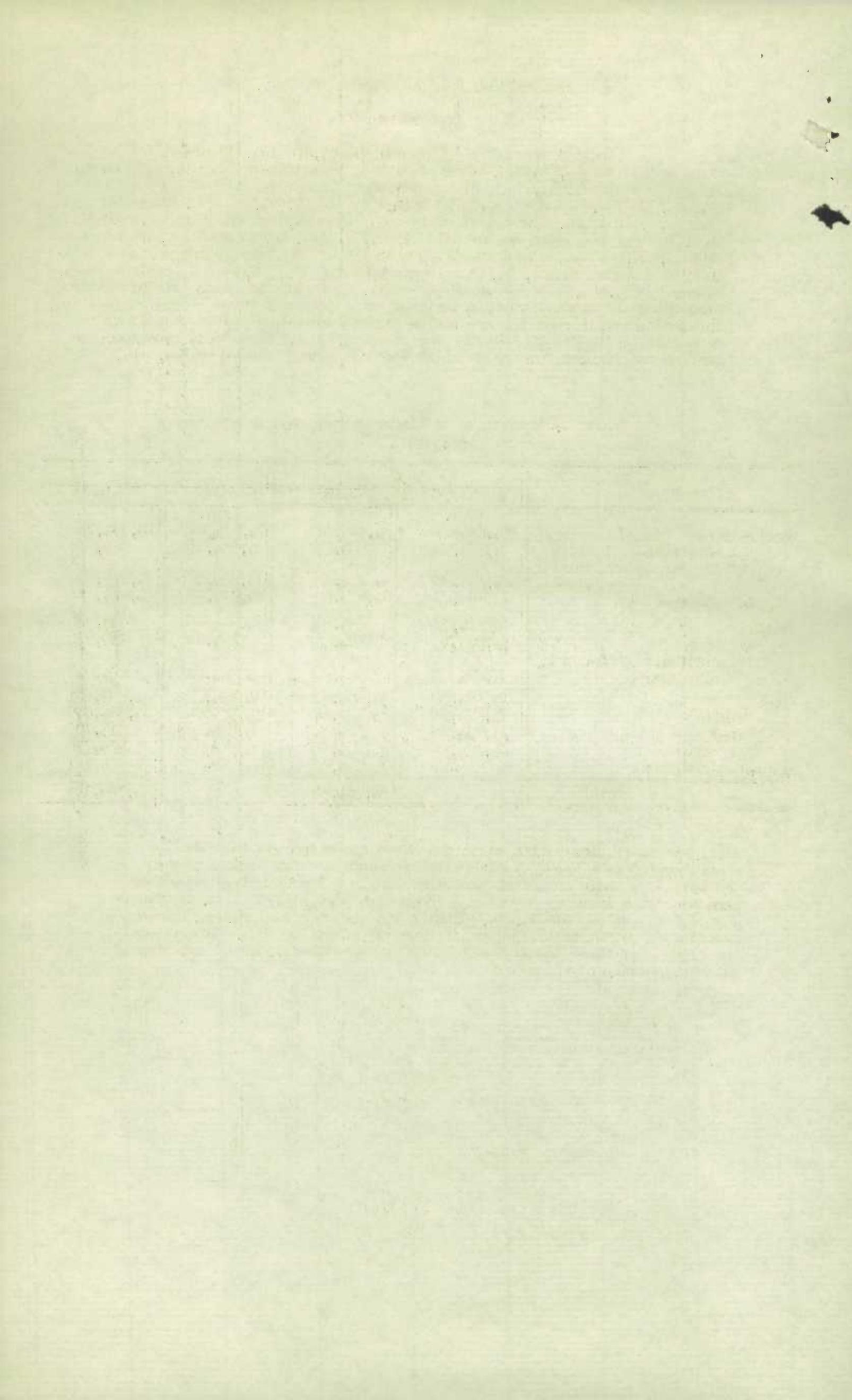
Production

In 1930 there were produced 59,635,476 lbs. of binder twine valued at \$6,356,943, compared with a production of 81,915,548 lbs. in 1929 valued at \$8,931,712. The production of rope also dropped from 14,024,652 lbs. valued at \$2,357,601 in 1929 to 10,587,849 lbs. valued at \$1,695,519 in 1930. The output of twines, however, was considerably higher in 1930; the production amounted to 2,526,727 lbs. valued at \$470,544, compared with 1,926,060 lbs. valued at \$44,591 in 1929. The total value of production in 1930 amounted to \$8,551,349 as compared with \$11,798,165 the previous year, a drop of \$3,246,816 or about 28 per cent. To avoid disclosure of information concerning the production of individual establishments it was found impossible, in some cases, to show the production figures according to the constituent materials of the final product. For example, it has been found necessary to combine the figures for "all manila" and "all sisal" binder twine, etc.

Table 3.- Production of binder twine, rope and twines  
1929 and 1930.

Products	1930		1929	
	Quantity	Value	Quantity	Value
Binder twine	Lbs.	\$	Lbs.	\$
All manila and all sisal	59,635,476	6,356,943	81,915,548	8,931,712
Chiefly manila and chiefly sisal	8,165,274	833,835	2,656,818	288,670
All other	40,408,230	4,275,606	43,866,230	4,196,581
Twines	11,061,272	1,247,502	35,392,500	4,446,461
All hemp	2,526,727	470,544	1,926,060	444,591
All cotton, all flax and all jute	1,395,169	267,996	590,208	189,672
Rope	1,131,558	202,548	1,335,852	254,919
Manila	10,587,849	1,695,519	14,024,652	2,357,601
Sisal	7,400,480	1,221,047	8,795,961	1,554,033
All other	1,721,769	249,463	3,572,207	513,795
All other products	1,465,600	225,009	1,656,484	289,773
Total	-	28,343	-	64,261
		8,551,349		11,798,165

Note. The statistics published in the above table include only the statistics of such manufacturing establishments as make cordage, rope and twines as their principal products. In 1929 for example, the cotton yarn and cloth industry reported a production of 4,334,530 lbs. of twines and cordages valued at \$1,926,776 while the woolen goods, n.e.s. industry reported an output of 47,736 lbs of rope valued at \$30,893. Unfortunately, the figures of these industries for 1930 were not available at the time of going to press.



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1930.

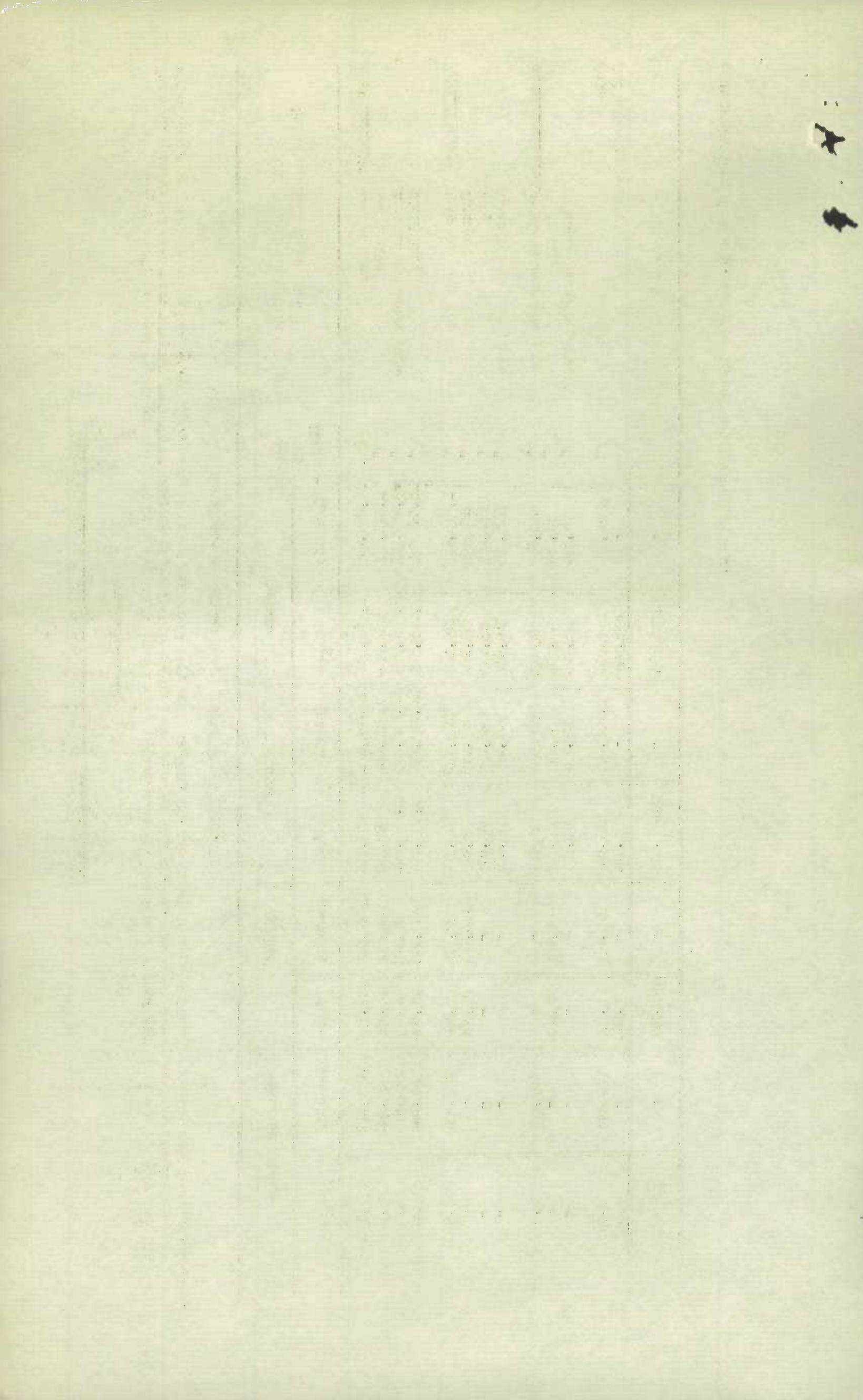
MATERIALS USED

The quantity and cost value of the principal materials used in the industry during the calendar year 1930 is given by provinces in Table 4. The total cost fell from \$7,798,893 in 1929 to \$6,059,887 in 1930, a decrease of \$1,739,006. The most important item was African and other hemp, the cost of which was \$2,237,599, next in order was Sisal hemp with \$1,609,568, and third place was taken by manila hemp with \$1,394,182.

Table 4.- Materials Used by Provinces, 1930.

Principal Materials used	Unit of Measure	CANADA		ONTARIO		QUEBEC		OTHER PROVINCES x	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Hard fibres:- Manila hemp	lb.	16,820,275	1,394,182	12,072,131	963,934	2,070,922	179,257	2,677,222	230,991
New Zealand	"	1,941,062	132,614	1,290,648	90,108	257,613	19,177	392,801	23,329
African and other hemp	"	23,182,321	2,237,599	23,834,225	2,206,941	86,605	6,653	261,491	24,005
Sisal hemp	"	18,548,991	1,609,568	18,051,430	1,565,856	234,719	20,514	262,842	23,198
Soft fibres:- Hemp and hemp tow	"	1,573,817	76,913	615,720	47,727	72,361	11,800	885,736	17,386
Flax and flax tow	"	159,836	26,181	43,970	8,821	115,866	17,360	-	-
Jute	"	842,277	43,075	842,277	43,075	-	-	-	-
Other fibres and yarns	"	188,000	10,411	188,000	10,411	-	-	-	-
Yarns purchased:- Flax, hemp and jute	"	404,899	52,413	389,566	50,930	-	-	15,333	1,483
Cotton	"	97,200	24,754	56,278	14,632	40,922	10,122	-	-
Other yarns & threads	"	19,106	13,605	19,106	13,605	-	-	-	-
Oils	"	9,670,265	145,496	9,199,877	121,846	307,698	13,675	162,690	9,975
All other materials	"	-	293,076	-	277,602	-	9,041	-	6,433
TOTALS		-	6,059,887	-	5,435,488	-	287,599	-	336,800

x Includes Nova Scotia 1, Manitoba 1, and British Columbia 1.



...4-  
CAPITAL INVESTMENT

The capital invested in the industry shown in table 5 shows a decrease of \$784,763 as compared with 1929. The lower capital investment in 1930 was mainly due to a reduction in the volume of raw materials and finished products on hand amounting to \$979,183. Fixed capital was also \$79,436 lower than the previous year while the amount reported under cash, operating and trading accounts was a little higher. Of the total capital invested 1930 amounting to \$12,281,660, the province of Ontario provided 56.7 per cent, Quebec 5.5 per cent and the other provinces 7.8 per cent.

Table 5.- Capital investment by provinces, 1930.

Provinces	Fixed Capital	Working Capital		Total Capital
	Land, buildings, fixtures, machinery and tools	Materials on hand, stocks in process, etc.	Cash, trading and operating accounts, etc.	
CANADA	5,274,962	3,274,323	3,732,375	12,281,660
Ontario	4,189,452	2,869,092	3,590,025	10,648,569
Quebec	457,181	163,966	53,377	674,524
Other Provinces	628,329	241,265	88,973	953,567

Employees, Salaries and Wages

The total number of persons employed in the industry during the years 1929 and 1930 is given in Table 6 by (a) classes of employment, (b) sex and (c) salary and wage payments. The total number of employees in all classes fell from 1,368 in 1929 to 1,064 in 1930, a decrease of 304 or 22.2 per cent. The payroll also showed a decrease, the total in 1929 being \$1,518,280 whilst for the period covered by this report the amount was \$1,106,311, a decrease of \$331,969 or approximately 21.9 per cent.

Table 6.- Employees, salaries and wages, 1929 and 1930.

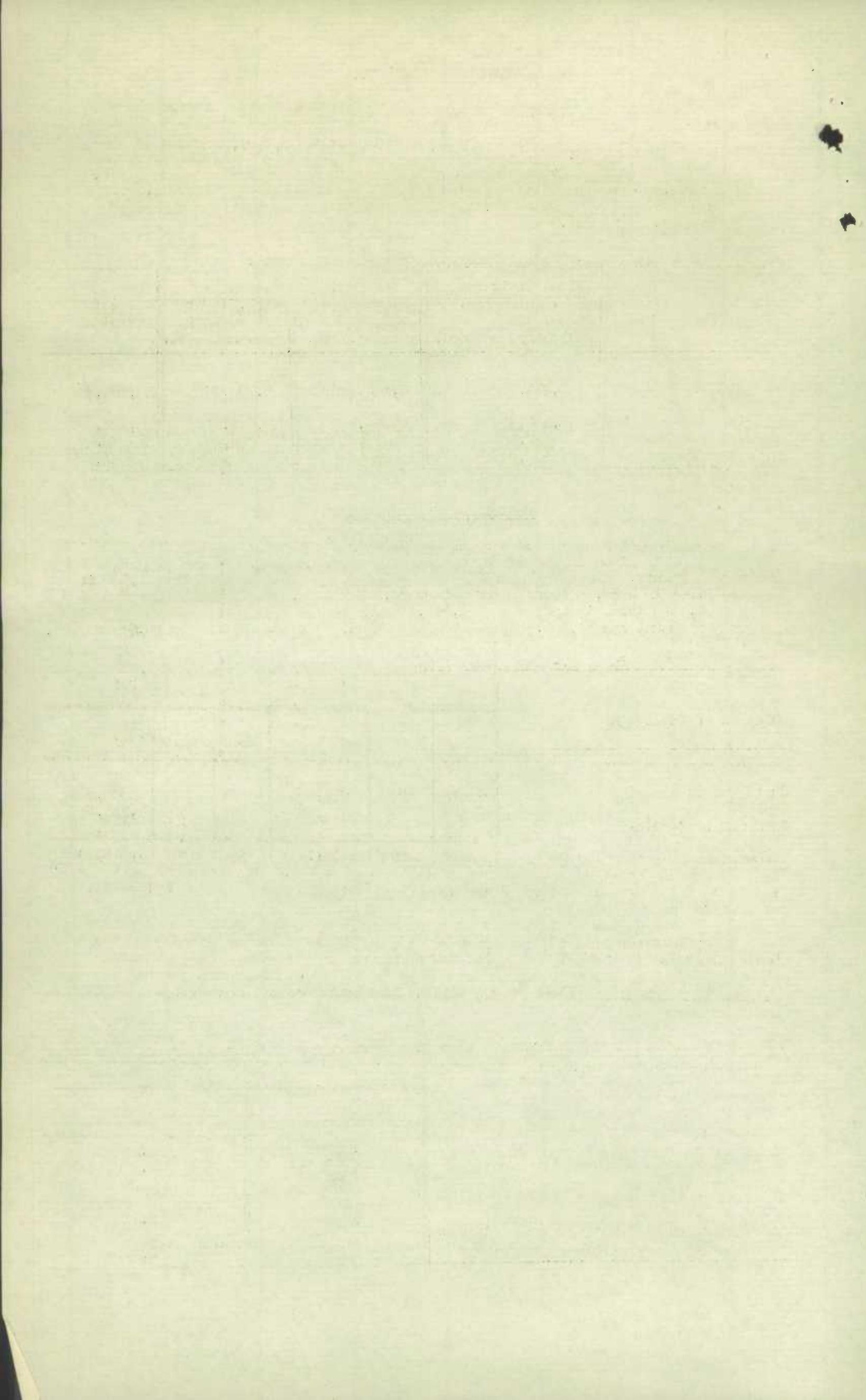
Classes of employment	1930			1929		
	Male	Female	Salaries and Wages	Male	Female	Salaries and Wages
			No.			No.
Employees on salaries	78	24	262,606	91	22	300,344
Employees on wages (average number)	649	307	919,962	857	389	1,211,840
Outside piece-workers	1	5	3,743	2	7	6,096
Totals	728	336	1,106,311	950	418	1,518,280

Other Employment Statistics

The number of days the factories were in operation during the calendar year 1930, together with the number of hours per day and per week normally worked by wage-earners is shown in Table 7. The number of wage-earners employed during the same period is given by sex and by months in Table 8. Employment reached its maximum in March with a total of 992 whilst the minimum number reported was 856 in the month of December.

Table 7.- Days in operation and hours worked, 1930.

Number of establishments in operation	13	
	Total	Average
Number of days in operation on full time	5,055	235.
Number of days in operation on part time	523	40.23
Number of days idle	374	28.77
Number of hours worked by wage earners per day or shift	8,519	8.91
Number of hours worked by wage earners per week	49,201	51.46



Other Employment Statistics - Cont'd.

Table 8 - Wage earners by months, 1930.

Month	Male No.	Female No.	Month	Male No.	Female No.
January	671	318	July	643	309
February	651	310	August	641	308
March	667	325	September	619	307
April	669	315	October	628	307
May	653	312	November	641	306
June	661	313	December	629	227
			Total	7,773	3,665
		Average number employed during year		647	307

Fuel Statistics

The quantity and value of the various kinds of fuel consumed in the industry during the calendar year 1930 is shown in Table 9. The total expenditure for all fuel rose from \$23,250 in 1929 to \$27,819 in 1930, an increase of \$4,569. Bituminous coal was accountable for nearly 75 per cent of the total fuel cost. The cost of electric power amounted to \$98,999 in 1929 as compared with a total cost of \$80,979 in 1930.

Table 9 - Fuel Consumption, 1930.

Kinds of fuel	Unit of measure	Quantity	Cost Value
Coal, bituminous	ton	3,912	20,870
Coal, anthracite	ton	23	271
Coke	ton	2,301	5,926
Other fuel	-	-	151
Fuel oils	gal.	10,210	601
Total	-		27,819

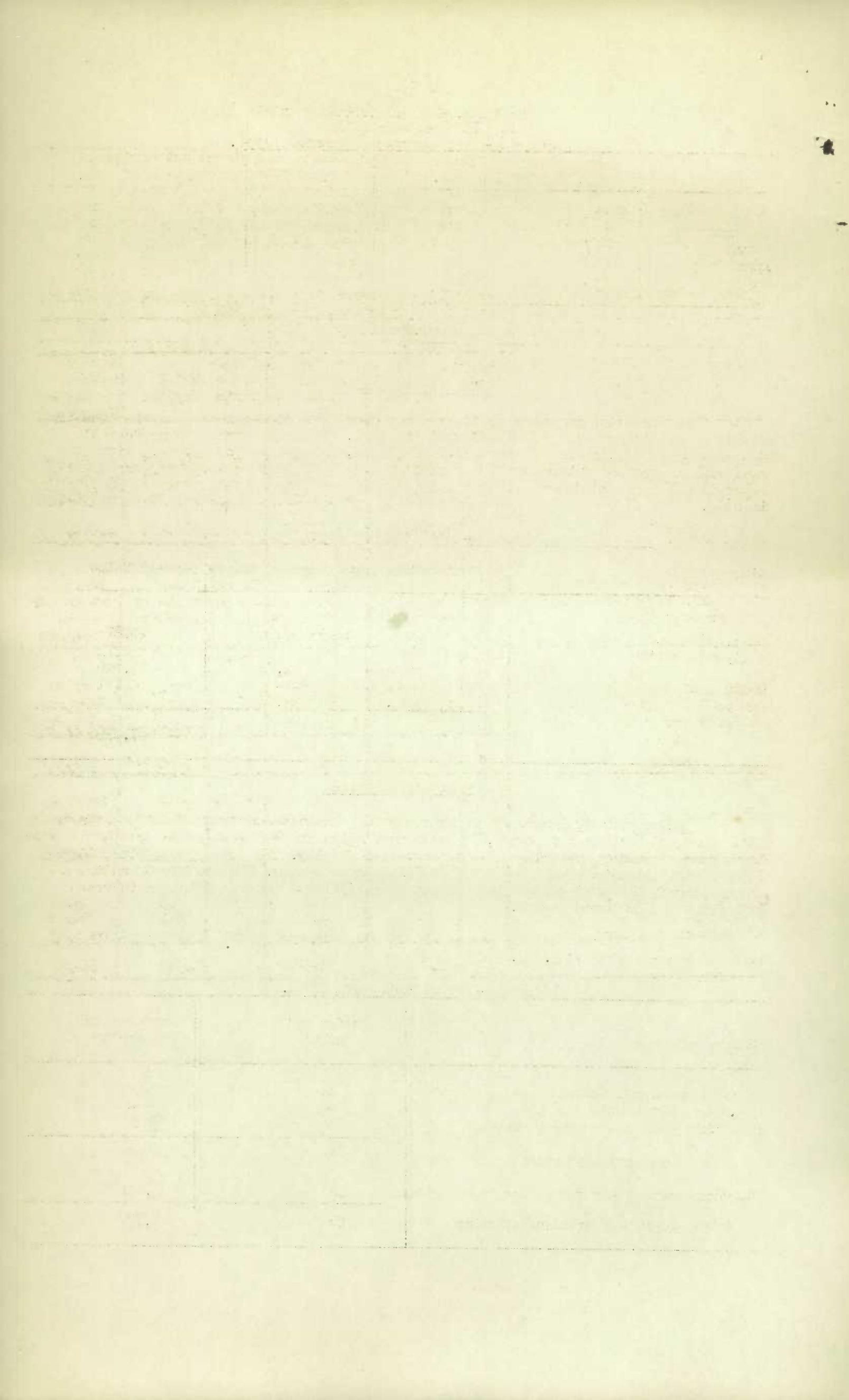
Power Installation

The power equipment of the industry for the calendar year 1930 is shown in Table 11 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 in 1929 was 234 units with a capacity of 7,741 horse power. The number of units in the year 1930 was 239 with a development of 7,777 horse power, being an increase of 5 units and 36 horse power.

The number of boilers installed for all purposes was 19 with a boiler horse power capacity of 2,283.

Table 10 - Power Equipment, 1930.

Classes of power	Number of units	Horse power capacity
Steam engines and turbines	1	200
Oil, gas and gasoline engines	-	-
Hydraulic turbines or water wheels	1	165
Total primary power	2	365
Electric motors operated by purchased power	237	7,412
Total power used in manufacturing	239	7,777

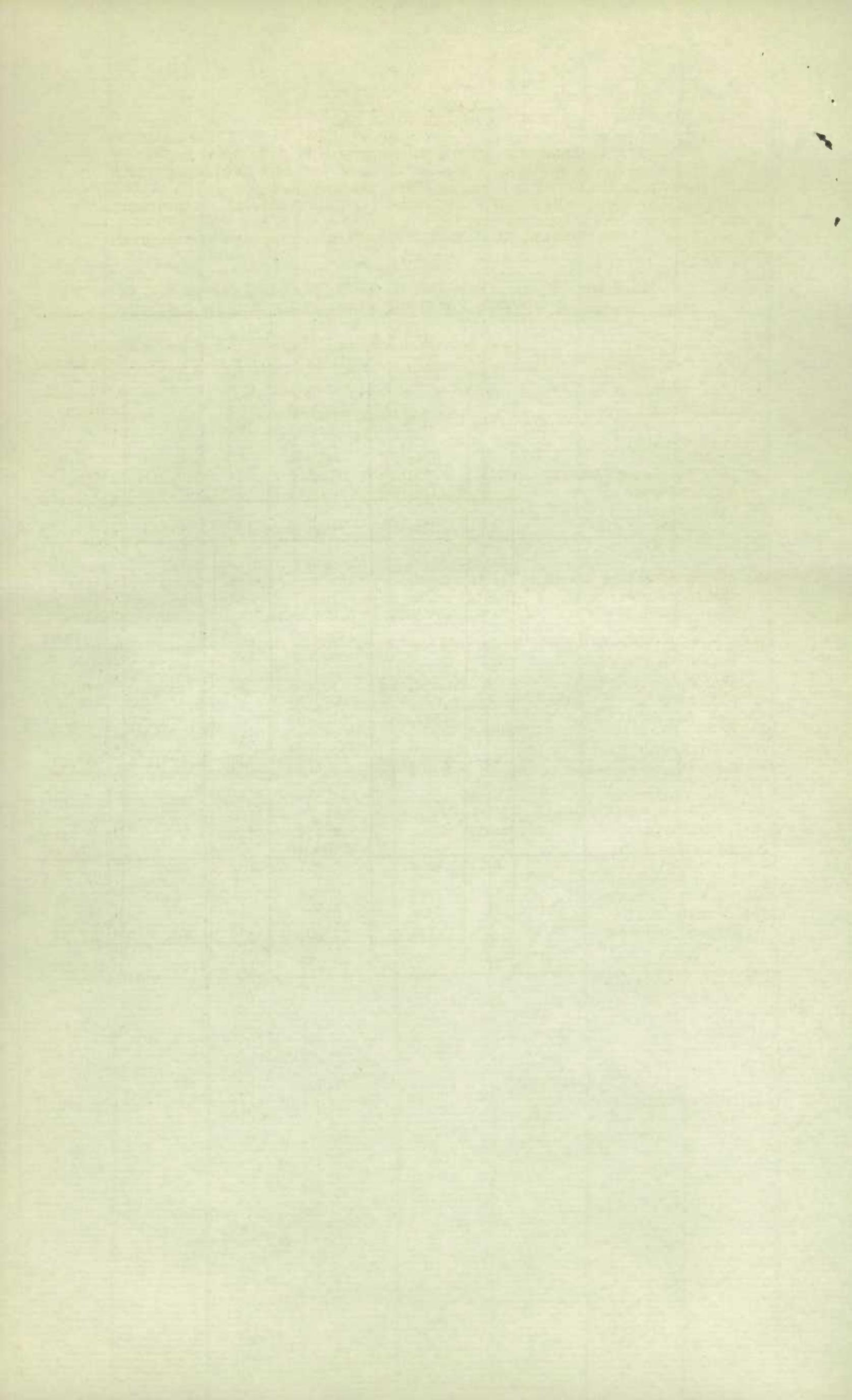


Size of Establishments

In view of the tendency towards concentration in industrial enterprises a series of tables has been prepared presenting in a threefold way the size of establishments in the Cordage, Rope and Twine industry measured by (a) capital investment, (b) gross value of production and (c) employment, all within certain specified groups or limitations for the calendar year 1929 and 1930. The tables further indicate the movement in capital, production and employment within the industry.

Table 11.- Size of establishments, measured by capital investment, gross value of production and employment, 1930 and 1929.

(a) Groups of establishments having a capital investment of	1930			1929		
	Establishments	Total Capital	Average capital per establishment	Establishments	Total Capital	Average capital per establishment
	No.	\$	\$	No.	\$	\$
Under \$100,000	5	201,172	40,234	5	184,993	36,999
\$100,000 to under \$500,000	3	755,426	251,808	3	890,071	296,690
\$500,000 and over	5	11,325,062	2,265,012	5	11,991,352	2,398,272
Total	13	12,281,660	944,743	13	13,066,423	1,005,109
(b) Groups of establishments having a gross value of production of	Establishments	Total Gross value of production	Average Gross value per establishment	Establishments	Total Gross value of production	Average Gross value per establishment
	No.	\$	\$	No.	\$	\$
	Under \$100,000	5	154,416	30,883	5	184,169
\$100,000 to under \$500,000	4	1,074,681	269,670	4	1,315,549	328,887
\$500,000 and over	4	7,322,252	1,830,563	4	10,298,447	2,574,612
Total	13	8,551,349	657,796	13	11,798,165	907,551
(c) Groups of establishments employing	Establishments	Total Employees	Average employees per establishment	Establishments	Total Employees	Average employees per establishment
	No.	No.	No.	No.	No.	No.
	Less than 20 persons	5	61	3	13	4.33
20 but under 100	5	286	57.2	7	394	56.28
100 persons and over	3	711	237.0	3	952	317.33
Total	13	1,058	81.38	13	1,359	104.54



Imports and Exports

The quantity and value of raw, partly manufactured materials and finished products imported into Canada during the calendar year 1930 is shown in Table 12, by principal countries. The total value of all imports was \$7,861,113, of which raw materials represented \$4,037,292, whilst partly manufactured materials and wholly manufactured articles totalled \$3,823,821.

The total value of Canadian produce exported during the calendar year was \$1,766,223 of which binder twine represented \$1,654,751 or 93.7 per cent.

Table 12.- Imports into Canada for consumption, calendar year - 1930.

		Quantity	Value
Fibrilla, flax fibre and flax tow - Total	Cwt.	417	3,904
Netherlands	"	63	1,441
United States	"	349	2,463
Other Countries	"	-	-
Hemp dressed or undressed - Total	Cwt.	29,099	213,707
United States	"	27,859	201,135
New Zealand	"	683	4,667
Italy	"	288	3,155
Netherlands	"	269	4,750
Jute and jute butts - Total	Cwt.	17,234	67,325
United States	"	17,234	67,325
Other Countries	"	-	-
Oakum of Flax, hemp or jute - Total	Cwt.	11,746	93,215
United Kingdom	"	476	4,836
United States	"	10,994	86,158
Other Countries	"	276	2,177
Esparto or Spanish grass and other grasses, n.o.p. - Total	Cwt.	558	7,376
Germany	"	30	161
United States	"	528	7,211
Other Countries	"	-	4
Fibre, Mexican, istle or tampico - Total	Cwt.	2,468	34,781
United Kingdom	"	563	6,340
United States	"	1,661	24,710
Other Countries	"	244	5,731
Kapok - Total	Cwt.	3,919	68,048
Dutch East Indies	"	131	1,770
United States	"	3,788	66,278
Manila Fibre - Total	Cwt.	131,742	831,498
British West Indies	"	762	4,751
United States	"	122,889	776,361
Philippines	"	8,091	50,386
Sisal Fibre - Total	Cwt.	327,689	2,491,763
United Kingdom	"	1,160	7,336
United States	"	324,777	2,470,632
Other Countries	"	1,752	13,745



Imports and Exports - Cont'd.

Table 12.- Imports into Canada for consumption, calendar year, 1930 - Cont'd.

		Quantity	Value
Vegetable fibre, n.o.p. - Total	Cwt.	27,092	225,675
United Kingdom	"	1,600	24,588
United States	"	5,600	59,298
New Zealand	"	3,162	19,994
Phillipine Islands	"	12,776	94,841
Other Countries	"	3,954	26,954
Binder twine - Total	Cwt.	103,096	1,131,239
United Kingdom	"	22,600	277,334
United States	"	17,933	234,814
Netherlands	"	61,358	604,107
Other Countries	"	1,205	14,984
Bank, cod and other fish lines and twines, etc. - Total	(value only)	-	2,193,993
United Kingdom	"	-	1,248,629
United States	"	-	842,372
France	"	-	26,868
Germany	"	-	1,253
Japan	"	-	31,916
Netherlands	"	-	10,508
Norway	"	-	17,200
Other Countries	"	-	15,247
Cordage, head ropes etc. used in fisheries - Total	Lb.	718,572	136,576
United Kingdom	"	309,908	41,255
United States	"	389,318	92,868
Other Countries	"	19,346	2,453
Cords and twines, n.o.p. - Total	Lb.	752,069	151,353
United Kingdom	"	304,027	52,369
United States	"	274,748	79,127
Germany	"	122,245	13,840
Other Countries	"	51,049	6,017
Cordage, manila, sisal, etc. exceeding 1" in circumference - Total	Lb.	1,462,863	185,116
United Kingdom	"	1,347,775	168,994
United States	"	83,820	11,182
Other Countries	"	31,268	4,940
Cordage exceeding 1" in circumference, n.o.p. - Total	Lb.	71,956	25,544
United Kingdom	"	54,640	20,303
United States	"	15,336	4,480
Other Countries	"	1,980	761



Imports and Exports - Cont'd

Table 13.- Exports by principal countries, 1930.

		Quantity	Value \$
Flax fibre and flax tow - Total	Cwt.	1,153	3,458
United Kingdom	"	14	224
United States	"	1,139	3,234
Binder twine - Total	Cwt.	153,754	1,654,751
United Kingdom	"	39,424	396,760
United States	"	80,503	916,599
British South Africa	"	8,569	82,259
Argentina	"	7,550	90,600
Russia	"	14,112	139,356
Chili	"	2,700	20,217
Irish Free State	"	896	8,960
Portuguese Africa	"	-	-
Newfoundland	"	-	-
Cordage, rope and twine, n.o.p.- Total (value only)		-	108,014
United Kingdom	"	-	14,649
United States	"	-	1,007
Br. Guiana	"	-	8,267
Trinidad and Tobago	"	-	7,154
Newfoundland	"	-	5,396
New Zealand	"	-	7,032
Colombia	"	-	31,739
Peru	"	-	9,591
Brazil	"	-	2,497
Other Br. West Indies	"	-	-
Other Countries	"	-	20,682

The apparent consumption of binder twine in Canada during the calendar years 1928, 1929 and 1930 is shown in table 14 by quantity and value.

Table 14.- Apparent consumption of binder twine in Canada for the calendar years 1928, 1929 and 1930.

	1928		1929		1930	
	Quantity	Value	Quantity	Value	Quantity	Value
Production plus	Cwt. 732,105	\$ 7,620,059	Cwt. 819,185	\$ 8,931,712	Cwt. 596,355	\$ 6,356,943
Imports	<b>279,913</b>	<b>2,915,696</b>	182,258	1,345,305	103,096	1,131,239
Total	1,012,018	10,535,755	1,001,443	10,777,017	699,451	7,488,182
Less Exports	117,941	1,188,376	152,889	1,688,316	153,754	1,654,751
Available for consumption	894,077	9,347,379	848,554	8,988,701	545,697	5,833,431



APPENDIX

Cordage, Rope and Twine Manufacturers Operating in Canada, 1930.

Name of firm	Location	Products made
Consumers' Cordage Company	Wyse Road, Dartmouth, N. S.	rope
Aero Manufacturing Co. Ltd.	Main St., Lennoxville, Que.	Cordage, rope
Consumers' Cordage Co. Ltd.	257 St. Patrick St., Montreal, P.Q.	rope, twines
C. A. Turner Manufacturing Co. Reg'd 199 Victoria St., Sherbrooke, P.Q.	Cordage, rope	
Brantford Cordage Company, Ltd.	111 Brant St., Brantford, Ont.	Binder twine
Bowman Twines Ltd.	Brantford, Ont.	Binder twine, twines
H. M. Patterson	203 Hardisty St., Fort William, Ont.	Fishnets
International Harvester Co. of Canada, Ltd.	Sherman Ave. W., Hamilton, Ont.	Binder twine
Doon Twines Limited	33-49 South Street, Kitchener, Ont.	twines
Derrett, Ltd.	6 Bartlett Ave., Toronto, Ont.	Twine
Plymouth Cordage Co.	Main Street, Welland, Ont.	Binder twine, rope
Manitoba Cordage Co. Ltd.	Portage la Prairie, Man.	Rope, and twines
Canada Western Cordage Co. Ltd.	Braid St., New Westminster, B.C.	Binder twine, rope

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