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DEPARTMENT OF TRADE AND COMMERCE

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REPORT

on the

# WOOLLEN TEXTILE INDUSTRY

in

# CANADA

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of the Hostery and Mait gotde ato, etc.

Published by Authority of the I-lon. H. H. Stevens, M.P., Minister of Trade and Commerce

OTTAWA

1930

etatement include only the statistics of the principal products of such manufacturing establishments as use Wool as their principal material. Statistics relating to specific products are therefore not to be regarded as comprehensive, as these are also found as secondary products of other industries of the Hosiery and Knit goods etc., etc.

#### DEPARTMENT OF TRADE AND COMMERCE

#### DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

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

J. C. Macpherson

## THE WOOLLEN TEXTILE INDUSTRY IN CANADA, 1929.

Ottawa, November, 1930. - The annual report of the Woollen Textile Industry in Canada for the calendar year 1929 is herewith presented under the four following heads:

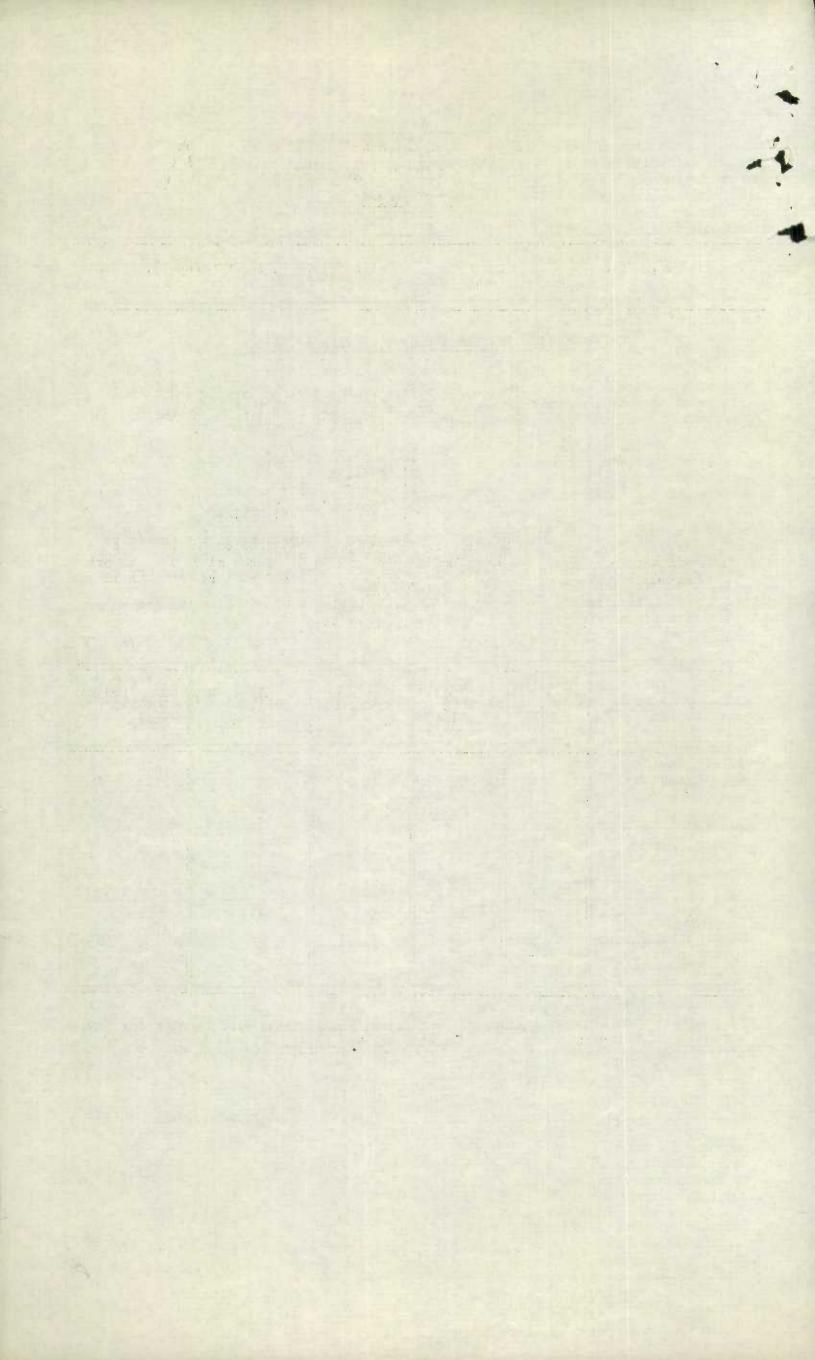
- 1. Woollen Cloths.
- Woollen Yarns.
   Carpets, mats Carpets, mats and rugs.
   Woollen Goods, n.e.s.

The following table shows the location by provinces of the number of establishments in each section. Woollen cloth mills decreased since last report by 7, woollen yarn mills increased by 7, carpets, mats and rugs ramained as in 1928, and woollen textile mills, n.e.s. decreased by 1.

The decrease in the number of mills making woollen cloth was due to a transfer of certain mills to the woollen yarn section.

	Woollen cloth mills	Woollen yarn mills	Carpets mats and rugs	Woollen goods n. e. s /	All Woollen textile mills
CANADA	44	27	22	26	119
rova Septia	2	3	1	1	7
Yew Brunswick	1	5	1	1	8
Quebro	12	1		4	17
Ontario	29	16	16	19	80
Western Provinces		2	4	1	7

<sup>/</sup> Woollen goods, n.e.s. includes - wool felts, wool pulled, etc., wool stock (shoddy) wool waste and noils, etc.



#### THE WOOLLEN TEXTILE INDUSTRY IN CANADA, 1929.

#### Size of Establishments

In view of the tendency towards concentration in industrial enterprise, a series of tables has been prepared presenting in a threefold way the size of establishments in each of the four sections comprising the woollen goods industry measured by (a) capital investment, (b) gross value of production and (c) the number of persons employed, all within certain specified groups or limitations for the calendar years 1928 and 1929. The tables further indicate the movement of capital production and employment within the industry.

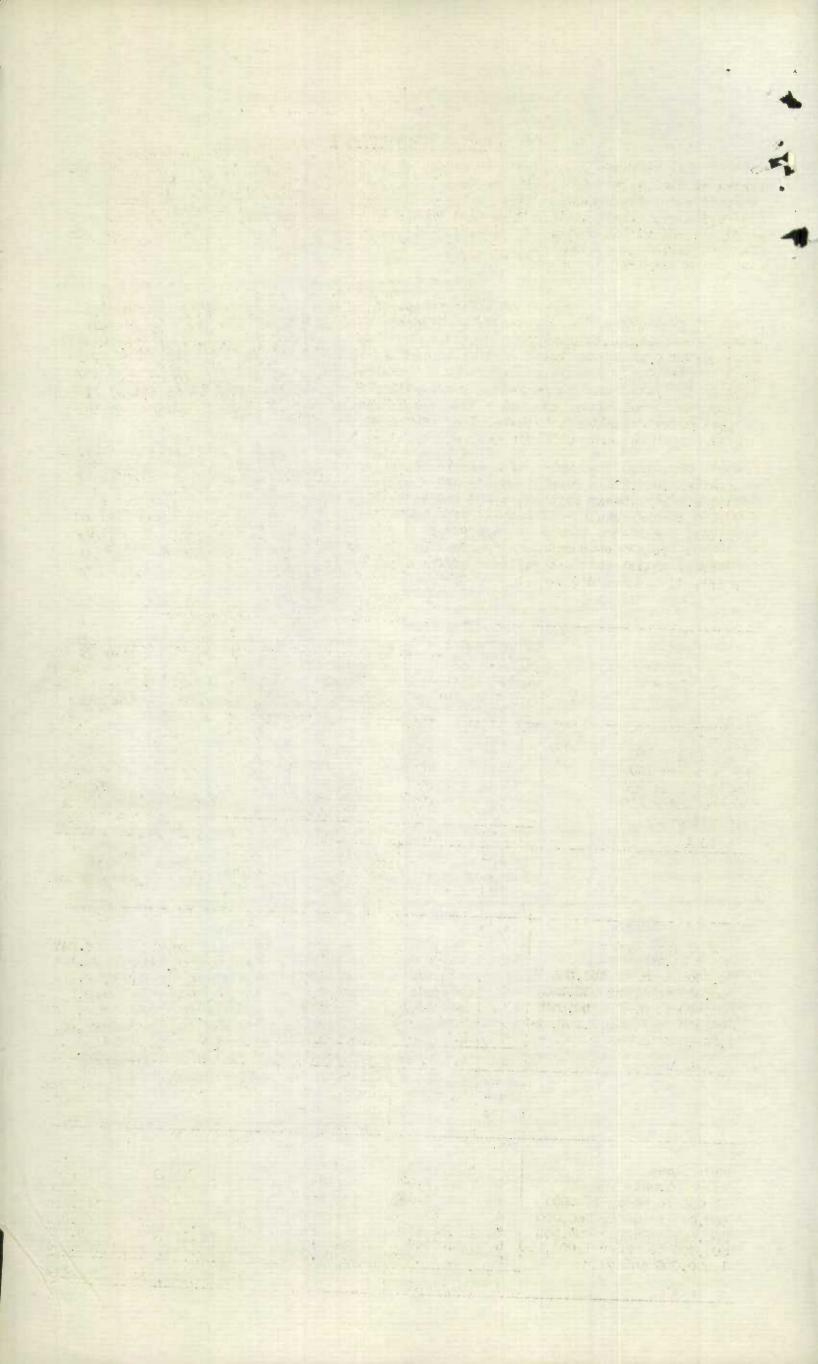
#### Woollen Cloth Mills,

In 1928 the number of mills in operation were 51 with a total capital investment of \$18,274,895, a gross value of production of \$15,062,081 and a total employment of 3,996. Twenty-three establishments had a capital investment of \$17,533,271 or 95.9 per cent of the total capitalization and an average investment per establishment of \$762,316. Seventeen plants had a gross production of \$13,947,840 or 92.6 per cent of the total production and an average output per establishment of \$820,449. In employment 19 establishments had 5,625 persons on the payroll being an average of 191 per establishment and 90.72 per cent of the total employment.

In 1929 the number of mills in operation were 44 with a total capital investment of \$20,016,202 a gross value of production of \$16,241,194 and a total employment of 4,145. Twenty-six establishments had a capital investment of \$19,553.175 or 27.68 per cent of the total capitalization and an average investment per establishment of \$752,045. Twenty-one plants had a gross production of \$15,705,944 or 96.7 per cent of the total production and an average output per establishment of \$747,902. In employment 20 establishments had 3,828 persons on the payroll being an average of 191.4 per establishment and 92.3 per cent of the total employment.

Woollen Cloth Mills, 1928-1929.

						Section Sectio
		1928			1 9 2 9	
	Estab-	Number	Average No.	Estab	Number	Average No.
Employees	lish-	of	on Employees,	lish-	of	of Employoes
	ments	Employees	per estab-	ments	Employees	
			lishment	No.	No.	lishment
Under 20	26	173	6.66	16	102	6.38
20 to under 50	6	198	33.00	8	215	26.37
50 to under 100	7	474	67:71	9	651	72.54
100 to under 200	4.	526	131,50	3	433	1.44,33
200 to under 500	7	2,036	290.85	7	2,157	308.14
500 and over	1	589	589.00	1	587	587.00
TOTAL	51	3.996	78.35	44	4,145	94.20
	Estab-		Average	Estan-		Average
	lish.		Capital	lish-	Amount	Capital
	ments	Amount	per estab-	ments		per esteb-
			lishment			lishment
0	No.	*	er.	No.	\$	\$
Capital Invested - Under 50,000	23	362,047	15:741	15	240,639	16.047
50,000 to under 100,000	5	379,577	75,915	1 3	222,418	74.139
100,000 to under 200,000	6	883,490	147,248	6	317,948	136,325
200,000 to under 500,000	7	2,534,078	362.011	9	3,233,472	359,275
500,000 to under 1,000,000	9	2,844.980	711,245	1 4 <u>E</u>	2,901,548	725,387
1,000,000 and over	6	11,270.723	1,878,454	7	12.600.207	1,800,029
TOTAL	51	13,274.895	358,331	44	20.016,292	454,919
	Estab		Average	Estab		Average
	lish-	Amount	Production	lish-	Amount	Production
	ments		per estab-	ments		nem estab.
			lichment			lishment
	No.	3	4.	NO.	8	\$
Production		1			1	
Under 50,000	26	271,092	10,427	1.8	225,118	12,506
50,000 to under 100,000	4	285,497	71.374	5	310,132	52,026
100,000 to under 200,000	4	557,852	139,463	4	577,345	144,336
200,000 to under 500,000	17	1,853,407	264,772	8	2,764,982	345,623
500,000 to under 1,000,000		3,573,431	71.1.686	3	1.974,832	658,277
1,000,000 and over	5	3.520,802	1,704,160	6	10,383,785	1,731,484
TOTAL	51	15,032,081	295,535	14	16.241,194	369,118



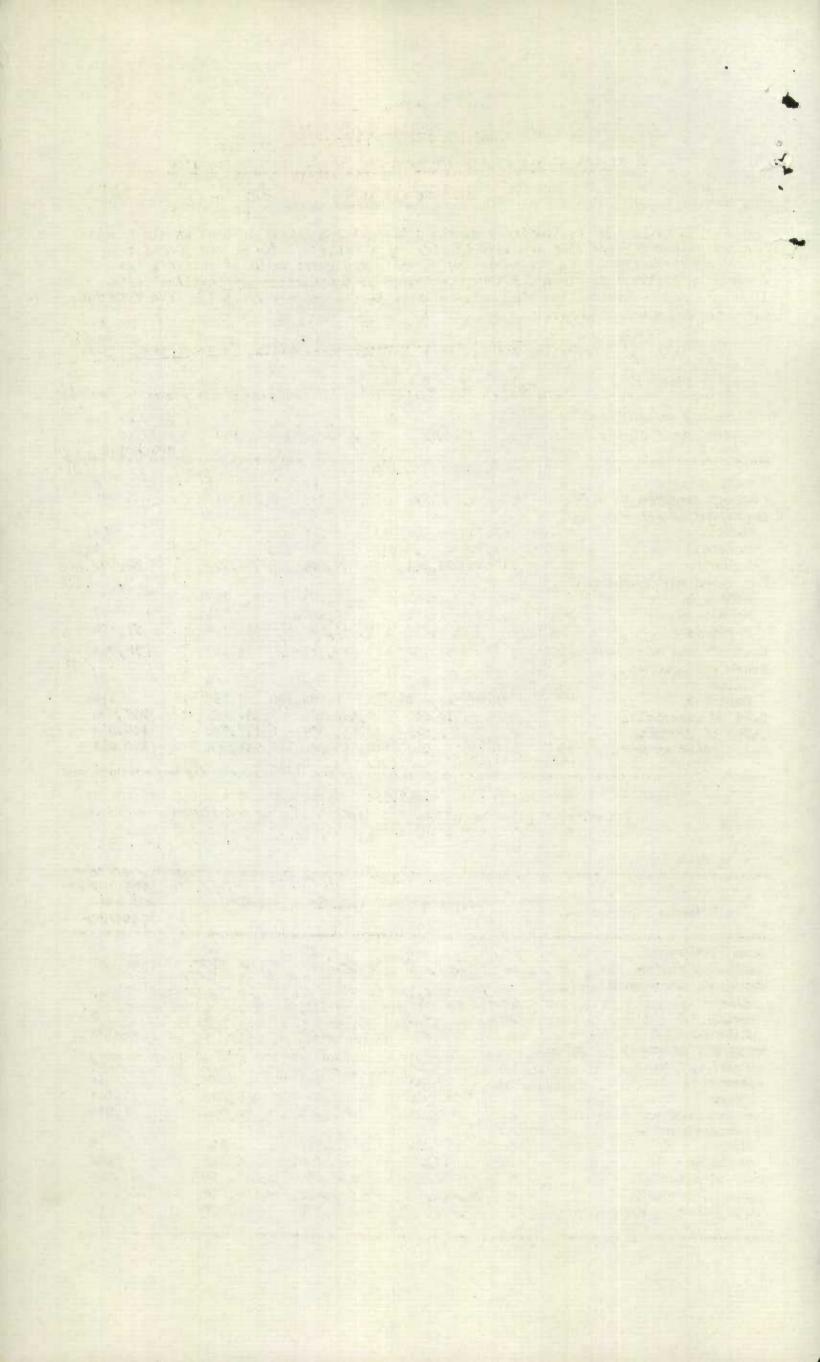
#### THE WOOLLET TRATILE INDUSTRY IN CANADA, 1929.

A summary table showing the principal statistics of each of the four sections comprising the woollen textile industry and a total for all sections is presented herewith for the calendar year 1929 for the Dominion as a whole.

Summary of Woollen Textile Industry, by Sections - 1929.

frincipal Statist	ies	Woollen cloths	Woollen yarns	Carpets, mats and lugs	Woollen goods, n. e. s.	Total Woollen Textile Industries
Establishments	No.			22	26	1
Capital invested	\$	20,016,292	7,699,902	6,446,734	8,680,289	42,843,217
Employees on salaries	_					
Male	No.	235	48	172	82	537
Female	No.	73		42	22	156
Salaries	\$	706,897	149,098	461,360	277,973	
Employees on wages - Average of -						
Male	No.	2,132	741	696	794	4,363
Female	No.			383	243	3,348
Wages	\$		1,131,976	1,002,325	900,765	6,252,473
Outside piece-workers						
Male	No.	1				1
Female	No.	9	_	_		9
Amount paid	\$	1,181	-	-		1,181
Cost of fuel and electricity	\$	367,888	105,475	89,710	100,976	664,049
Power employed -		1		ar e		
Units	No.	1,220	204	265	242	1,931
Capacity	н.Р		3,103	2,115	6,812	24,232
Cost of materials	\$	9,231,712	3,9623096	2,559,680	3,348,836	19,102,324
Value of Products	\$	16,241,194	7,027,242	5,434,555	6,476,608	35,179,599
Value added by manufacture	\$	7,009,482	3,065,146	2,874,875	3,127,772	16, <b>077,</b> 275

Compared with 1928 there was a decrease of 1 in the number of establishments reporting, an increase of 4 in the number of male employees on salaries, an increase of 19 in the number of females on salaries, an increase of 387 in the number of males employed on wages, a decrease of 253 in the number of females employed on wages, an increase of \$41,846 in the payments to salaried employees, of \$121,876 in the amount paid to wage-earners, a decrease in the cost of materials of \$823,526, an increase of \$192,309 in the value of production. A decrease appears in the cost of fuel amounting to \$30,990, whilst in horsepower capacity there was an increase of 2,900 and in capital investment an increase of \$1,309,895.



# Principal Statistics compared for Canada and the Provinces

# in 1928 and 1929.

A comparison by provinces of the principal statistics in wooller cloth mills for the calendar years 1928 and 1929 is offered in Table 1. The number of mills reporting decreased during the period by 7, while the gross value of products increased by \$1,179,113. In order that disclosure of information of individual establishments may be avoided the statistics of Nova Scotia and New Brunswick have been combined throughout this report.

Table 1. - Principal Statistics of Woollen Cloth Mills, by Provinces,

Principal Statistics		CANADA	Ontario	Quebec	Nova Scotia and New Brunswick.
Establishments	No.	51	34	11	6
Capital invested	\$	118,274,895	15,005,679	2,663,940	605,276
Employees on salaries			1 1 1 1 1		
Male	No.	224	181	24	19
Female	No.	42	37	2	3
Salaries	\$	600,201	520,902	54,195	25,104
Employees on wages (avgetNo.)					
Male	No.	1,935	1,571	287	77
Female	No.	1,795	1,434	288	73
Wages paid	\$	3,163,737	2,642,086	444,188	77,463
Cost of fuel and electricity	\$	369,994	280,731	76,199	13,064
Power employed -	"				The second of the second
Units	No.	868	784	73	1.1
Capacity	H.P.	11,063	81799	1,752	512
Cost of materials	\$	9,270,861	7.872.092	1,191,477	207,292
Value of Products		15,062,081	12,580,985	2,117,782	363,314
Value added by manufacture	\$	5,791,220	4,708,893	926,305	156,022

Principal Statistics of Woollen Cloth Mills, by Provinces, 1929

Principal Statistics		CANADA	Ontario	Quebec	Nova Scotis and New Brunswick
Establishments	No.	44	29	12	3
Capital invested	\$	20,016,292	16,382,584	2,949,856	683,852
Employees on salaries -					
Male	No.	235	193	32	10
Female	No.	73	62	8	3
Salaries	\$	706,897	615,126	69,476	22,295
Employees on wages (avge. No.)					
Male	No.	2,132	1,763	311	58
Remale	No.	1,705	1,345	297	63
Wages	\$	3,217,407	2,710,615	445,209	61,583
Cost of fuel and electricity  Power employed -	\$	367,888	279,707	76,202	11,579
Units	No.	1,220	1,003	211	6
Capacity		12,202	9,632	2,165	405
Cost of materials	*	9,231,712	7,944,057	1,119,726	167,929
Value of products	\$	16,241,194	14,005,835	1,920,919	314,440
Value added by manufacture	\$	7,009,482	6,061,778	801,195	146,511

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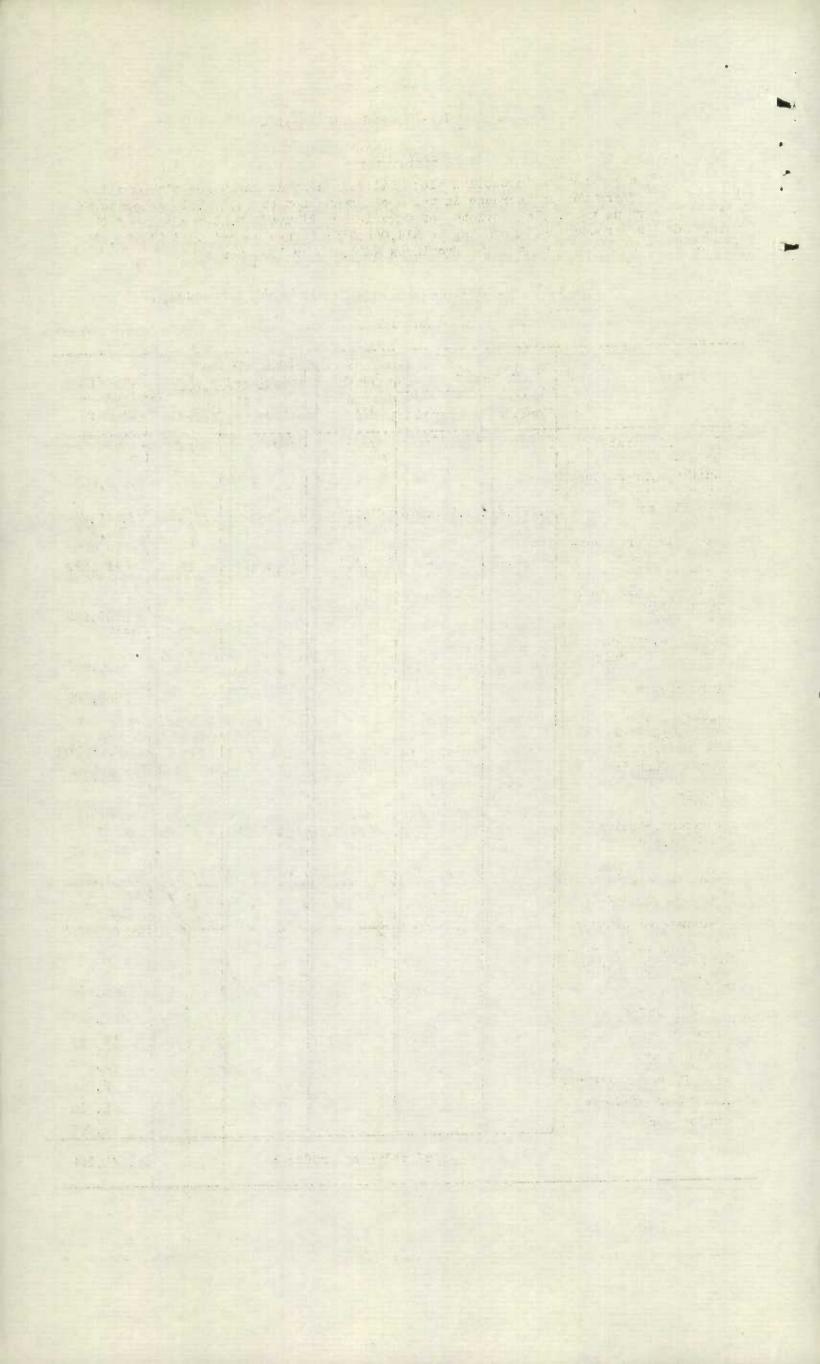
#### PRODUCTION

The production in woollen cloth mills in 1929 is shown for the Dominion in Table 2. There was an increase in value of production of \$1,179,113 as compared with the previous year. The province of Ontario contributed 86.24 per cent of the total value of production, amounting to \$14,005,835; Quebec contributed \$1,920,919 or 11.83 per cent and the Maritime Provinces \$314,440 or 1.93 per cent.

Table 2. - Production in Woollen Cloth Mills of Canada,

1929

	All W	Goods		Goods Wove Cotton War	Selling	
	Woollen	Worsted	Cotton Mixed	Woollen	Worsted	Value at Factory
ollen and Worsted Goods -	Yds.	Yds.	Yds.	Yds.	Yds.	\$
Suitings, Dress Goods Overcoatings and						
	3,267,344	1,782,033	61,272	749,189	42,919	7,907,380
Flannels for under- wear	5,416	-	180,101	117,243		88,243
Blankets, all wool value only						698,925
Blankets, cotton mixed, value only						<b>80,</b> 692
Auto cloths						598,605
Carriage cloths and robes						97,865
Horse blankets						39,712
Shawls					P Banagara	23,274
Sweaters, cardigan jackets, etc.						386,292
Fancy knit goods						63,362
Mackinaw cloths						417,277
Velours and plushes						3,997,066
Wool and cotton felts for pulp and paper						101,818
making Woollen yarns						868.882
						558,033
Worsted yarns						49,564
Cotton yarns Hosiery and underwear						2,785
		3				181,712
All other products Custom work						79,707



#### Capital Investment.

The amount of capital invested in the woollen cloth section of the industry in 1929 is shown in Table 3 under two heads:- fixed capital which includes lend, buildings and fixtures and machinery and tools, and working capital including materials and stocks on hand, finished products, fuel and miscellaneous supplies and cash, trading and operating accounts, etc. Ontario provided 81.84 per cent of the total investment, Quebec 14.74 per cent and the Maritime Provinces 3.42 per cent. Fixed capital increased by \$2,015,340 over 1928, while working capital, more variable in character, decreased by \$273,943, or a net increase in total investment of \$1,741,397.

Table 3. - Capital Invested by Provinces, 1929.

	Fixed Capital	Working Car	Working Capital				
Provinces	Land, buildings, etc. machinery and tools	Materials and supplies and finished pro-	Cash, trading and operating accounts, etc.	Capital			
	\$	\$	\$	\$			
CANADA	12,560,903	5,177,516	2,277,873	20,016,292			
Nova Scotia and							
New Brunswick	353,688	142,285	137,879	683,852			
Quebec Ontario	1,880,395	688,700 4,346,531	380,761 1,709,233	2,949,856 16,382,584			

## Employment Statistics, 1929.

Statistics of employment are presented in the following series of tables:-

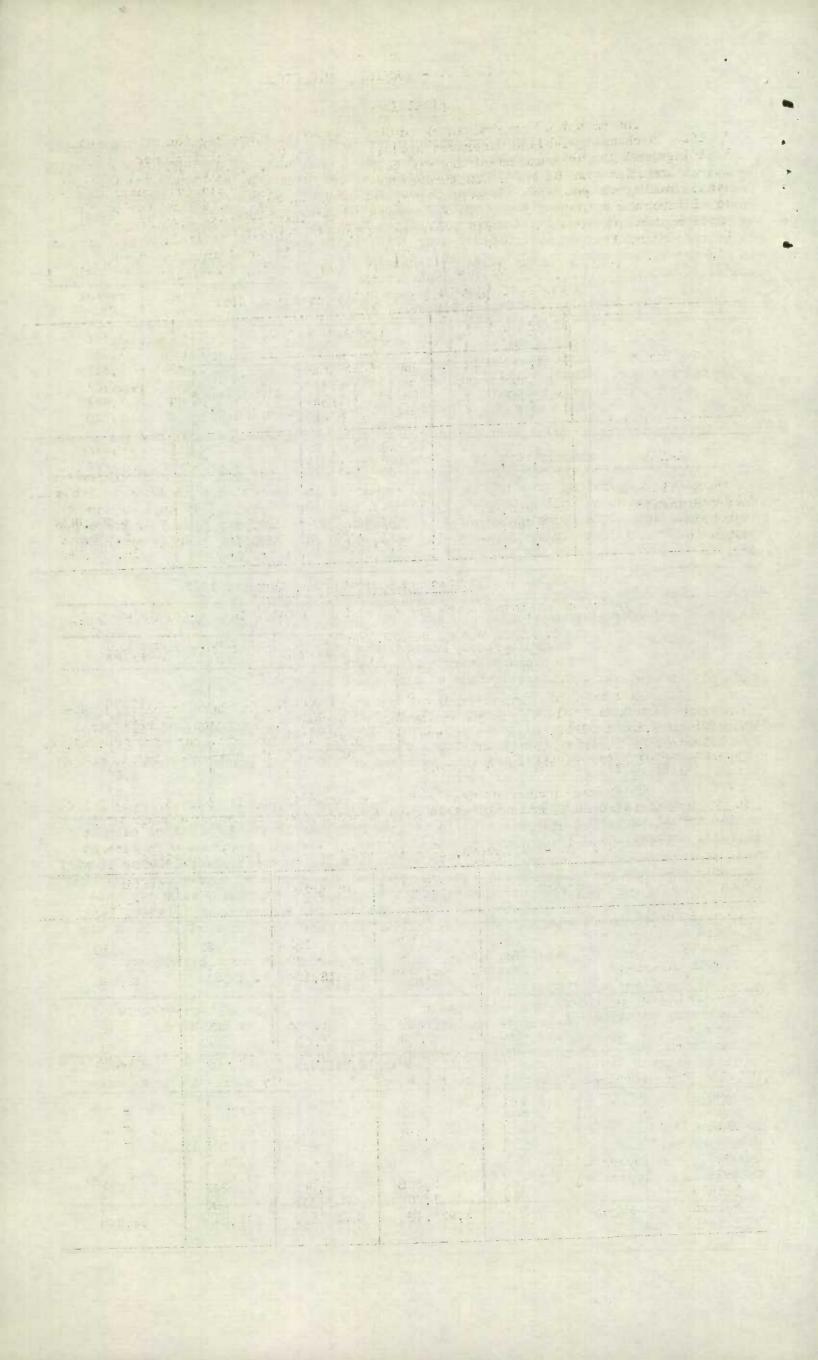
- 4. Employees by number, sex and remuneration, by provinces.
- 5. Employment by months, by numbers and sex.
- 6. Working time of plants and employees.

The number of persons employed, male and female, is shown by classes, sex and remuneration in Table 4. Total employment rose from 4,045 persons of both sexes in 1928 to 4,155 in 1929, whilst the total of salaries, wages, etc. rose from \$3,781,749 in 1928 to \$3,925,485 in 1929, being an increase of 110 in the number employed, and an increase of \$143,736 in the total payroll.

The average number of wage earners employed in any industry is calculated on the actual number of months the mills were in operation and not on a basis of 12 calendar months.

Table 4. - Employees, Salaries and Wages, by Provinces, 1929.

diployees by number and s	CANADA	Ontario	Quebec	Maritime Provinces	
Salaried employees -					
Male	No.	235	193	32	10
Female	No.	73	62	8	3
Total Salaries	\$	706,897	615,126	69,476	22,295
Wage-earning employees-					
Male	No.	2,132	1,763	311	58
Female	No.	1,705	1,345	297	63
Total wages	**************************************	3,217,407	2,710,615	445,209	61,583
outside piece-workers-					
Male	No.	1	1	-	-
Female	No.	9	6	3	-
Amount paid	\$	1,181	817	364	-
otal, all employees -					
Male	No.	2,368	1,957	343	68
Female	No.	1,787	1,413	308	66
Salaries and Wages	100	3,925,485	3,326,558	515,049	83,878



# Employment Statistics - Contid.

Statistics of employment by months, as per payroll, in the woollen cloth mills of Canada are shown in Table 5, for the calendar year 1929. The maximum of employment was attained in the ronth of March, with a total of 3,971 of both sexes, whilst the month of minimum employment was that of November with a total of 3,590. The average monthly employment for the year was 3,837 of whom 2,132 were males and 1,705 were females.

Table 8	5.	- Em	ployment	by	Months	as	per	payroll	, 1928.
---------	----	------	----------	----	--------	----	-----	---------	---------

Month	Male No.	Female No.	Month	Male No.	Female No.
January	2,077	1,702	July	2,145	1,678
February	2,180	1,766	August	2,125	1,615
March	2,222	1,749	September	2,009	1,619
April	2,157	1,730	October	2,040	1,701
May	2,202	1,753	November	1,998	1,592
June	2,004	1,647	December	1,994	1,620
	Average month		yment by months t for the year	25,153 2,132	20,172

The operating time of plants and employees in the Dominion is shown in Table 6. Plant operation on full and part time shows a gain per plant of 4.19 days as compared with 1928. The hours of labour by employees show an increase from 9.49 hours per day in 1928 to 9.57 in 1929, whilst weekly hours also rose from the average of 52.88 in 1928 to 53.77 in 1929.

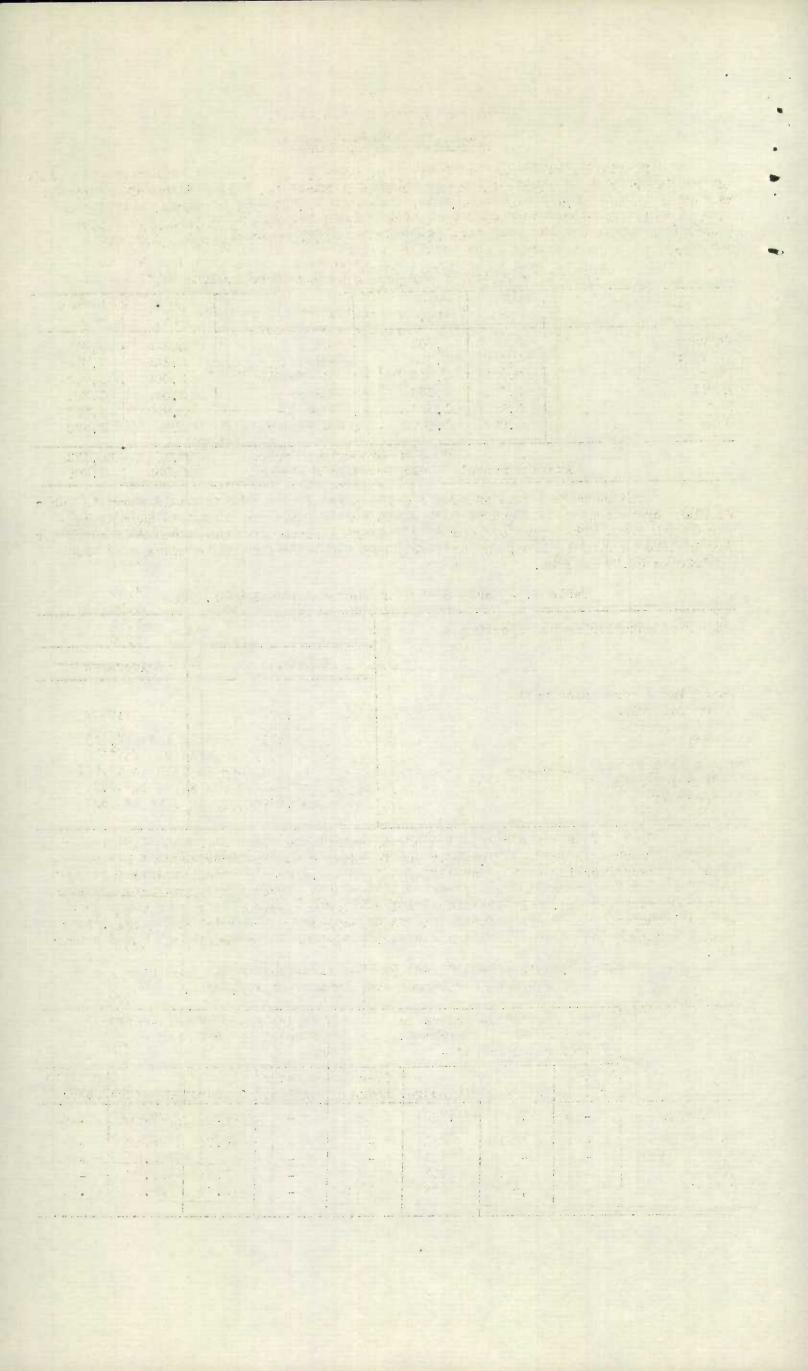
Table 6. - Working time of plants and employees, 1929.

Number of establishments reporting	44					
	Totals	Averages				
Days plants were in operation						
On full time	9,580	217.73				
On part time	1.098	24.95				
Idle	2,698	61.32				
iours worked by wage-earners						
Hours worked by wage-earners  Per day or shift	421	9.57				
Per week	2,366	53.77				

Table 7 presents statistics of wage-earning employees in month of highest employment working specified hours per day for Canada and the provinces with percentages of persons working at each specified daily rate. From the table following it will be noted that the prevailing daily rate was that of the groups of wage-earners working 9 and 10 hours per day, the percentages being 59.96 and 39.40. The 9 hour day prevailed in Ontario and the 10 hour day in Nova Scotia, New Brunswick and Quebec. Less than 1 per cent worked over 10 hours per day, whilst none were employed at the 8 hour day.

Table 7. Hours worked per day by wage-earners in month of highest employment for Canada and the provinces, 1929.

	Number of wage-earners in month of highest employment working per day of -				Percentage of wage-earners working per day of -			
	8 hours or less	9 h <b>o</b> urs	10 hours	Over 10 hours	8 hours or less	9 hours	10 hours	Over 10 hours
CANADA	-	2,692	1,769	29		59.96	39.40	.64
Nova Scotia New Brunswick Quebec Ontario		18 - 9 2,665	31 91 721 926	29	-	36.73 1.23 73.62	63.27 100.00 98.77 25.58	.80



# Employment Statistics - Cont'd.

Table 7(a) shows the hours of labour per day and per week for Canada and the provinces. The statistics relating to hours of labour in columns 1, 2 and 3 are compiled from the number of employees working specified hours per day in the month of highest employment whilst those in columns 4 and 5 represent the standard weekly hours of labour in the industry as reported to the Bureau by each individual establishment.

The average daily hours of labour computed on the above basis for the Dominion was 9.40 hours per day and 53.77 hours per week in 1929.

Table 7(a) - Hours of Labour per day and per week, for Canada and the Provinces, 1929.

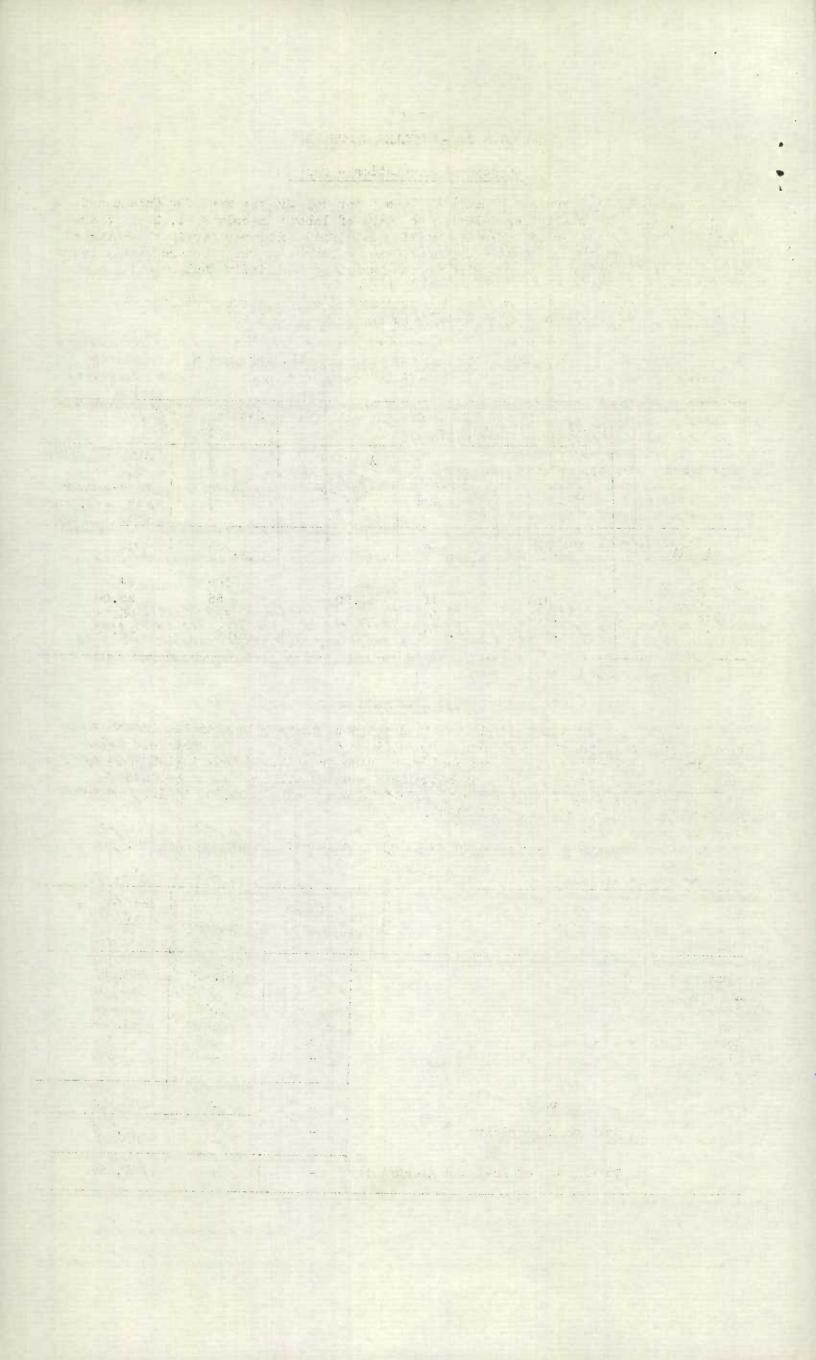
	Total hours as			Standard we per we	orking hours eek
Provinces	Total	Total wage- earners	Average hours per day per wage- earner	Total hours	Average hours per wage-earner per week, per establishment
CANADA	42,223	4,490	9.40	2,366	53.77
Nova Scotia New Brunswick Quebec Ontario	472 910 7,291 33,550	49 <b>91</b> 730 3,620	9.63 10.00 9.99 9.27	109 <b>55</b> 669 1,533	54.50 55.00 55.75 52.90

# Fuel Consumption

The consumption of fuel by this section of the woollen textile industry is shown by classes, quantity and cost value delivered at the mill in Table 8. The principal fuel used was bituminous coal which rose from 42,213 tons in 1928 to 42,500 tons in 1929. The average price of bituminous coal of all grades was \$6.45 in 1928, as against \$6.30 in 1929. Electricity purchased amounted to \$90,329 in 1928 as compared with an outlay of \$95,504 in 1929.

Table 8. - Fuel Consumption by classes, quantity and value, 1 9 2 9.

Classes of fuel	Unit of Measure	Quantity	Cost Value delivered at Mill
Bituminous coal Anthracite coal Gasoline Wood Coke All other fuel	ton " gallon cord ton	42,506 23 1,426 902 24	267,889 304 426 3,458 204 103
Cost of Fuel	-	-	272,384
Cost of Electricity	~	State .	95,504
Total Cost of Fuel and Electricity	_	•	367,888



#### Power Installation.

Power installation in the woollen cloth mills of the Dominion is shown in Table 9 by (a) classes of power, (b) number of units in each class and (c) the horse-power capacity according to manufacturers' rating for the calendar year 1929. Electric motors were still the principal power used, having increased by 364 units, with an aggregate of 1,394 horse power than in 1928. Boilers installed for any purpose numbered 63 with a boiler horse power capacity of 7,634.

Table 9. - Power Installation, 1929.

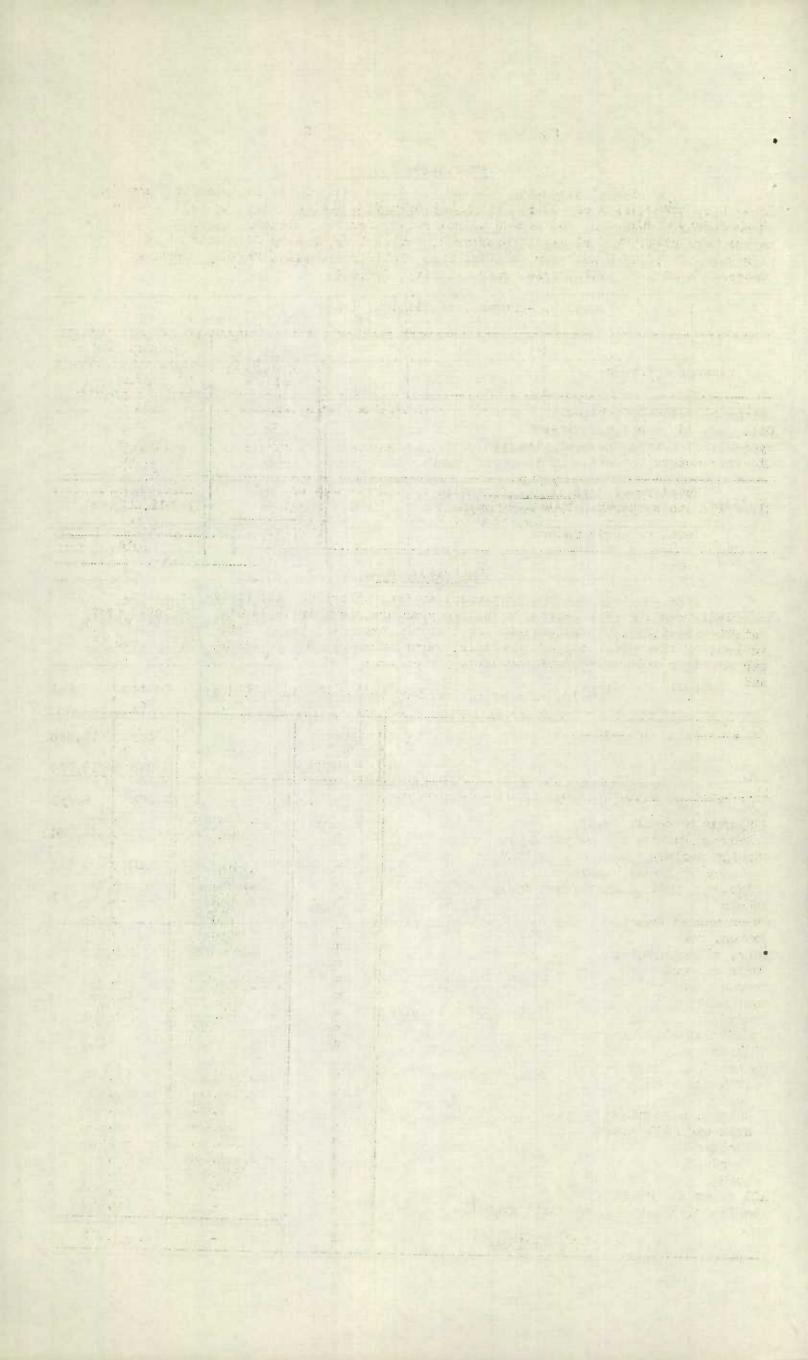
Classes of Power	Number of Units	H.P.according to manufacturers' rating
Steam engines and turbines Oil, gas and gasoline engines Hydraulic turbines or water wheels Electric motors operated by purchased power	12 1 23 1,184	2,110 20 1,721 8,351
Total power used in manufacturing Electric motors operated by owned power Total electric motors	1,220 17 1,201	12,202 665 9.016

#### Materials Used.

The quantity and the cost value at the factory or mill of the principal materials used in this section during the year are shown in Table 10. The total cost in 1929 was \$9,231,712 or \$39,149 less than the preceding year. Wool constituted 33.84 per cent of the total cost of materials, yarns purchased of all kinds, 42.40 per cent and all other materials 23.76 per cent.

Table 10. - Materials used by Principal Classes, 1929.

	Unit of Measure	Quantity	Cost Value at Mill or Factory.
			\$
Domestic wools:-	Pounds	7 722 000	460.679
Fleece or greasy wools	Founds	1,722,808	177.972
Scoured, pulled and washed wools		488,810	111,516
Foreign wools:-	11	2,910,598	1,044,733
Fleece or greasy wools	11	2,873,558	1,440,440
Scoured, pulled and washed wools	11	21.086	9.870
Other animal hair	- "	14,005	7,945
	11	392,479	74,097
Cotton, raw	11	1,007,085	135,030
ags, clippings, etc.	11	165,647	99,356
Tops of wool	tt tt	1.287.133	809,436
Wool waste	tı	877.762	186,690
Shoddy	11	521,238	170,683
artificial silk tops and waste	11	352	206
Silk waste	tt tt	957	273
Yarns of all kinds:-		50:	210
Artificial silk	11	117.278	91,667
Cotton	11	2,222,333	956,645
Cotton, mercerized	11	4.815	7,668
Silk and Silk mixed	11	16,373	53,975
Woollen	11	26,479	33,663
Worsted	11	1.694.938	1,817,874
Mohair	II II	803,359	952,868
All other materials		-	349,653
Chemicals, dyestuffs, and mill supplies	-		350,289
Total Cost of Materials		-	9,231,712



# Equipment in Woollen Cloth Mills.

The equipment installed in the mills operating in 1929 consisted of 221 sets of cards of specified widths, the number of each width being indicated below:-

Under 40 inches	40 inches	44 inches	48 inches	54 inches	56 inches	60 inches	66 inches	72 inches & over	Total
12	27	8	6€	10		76	5	17	221

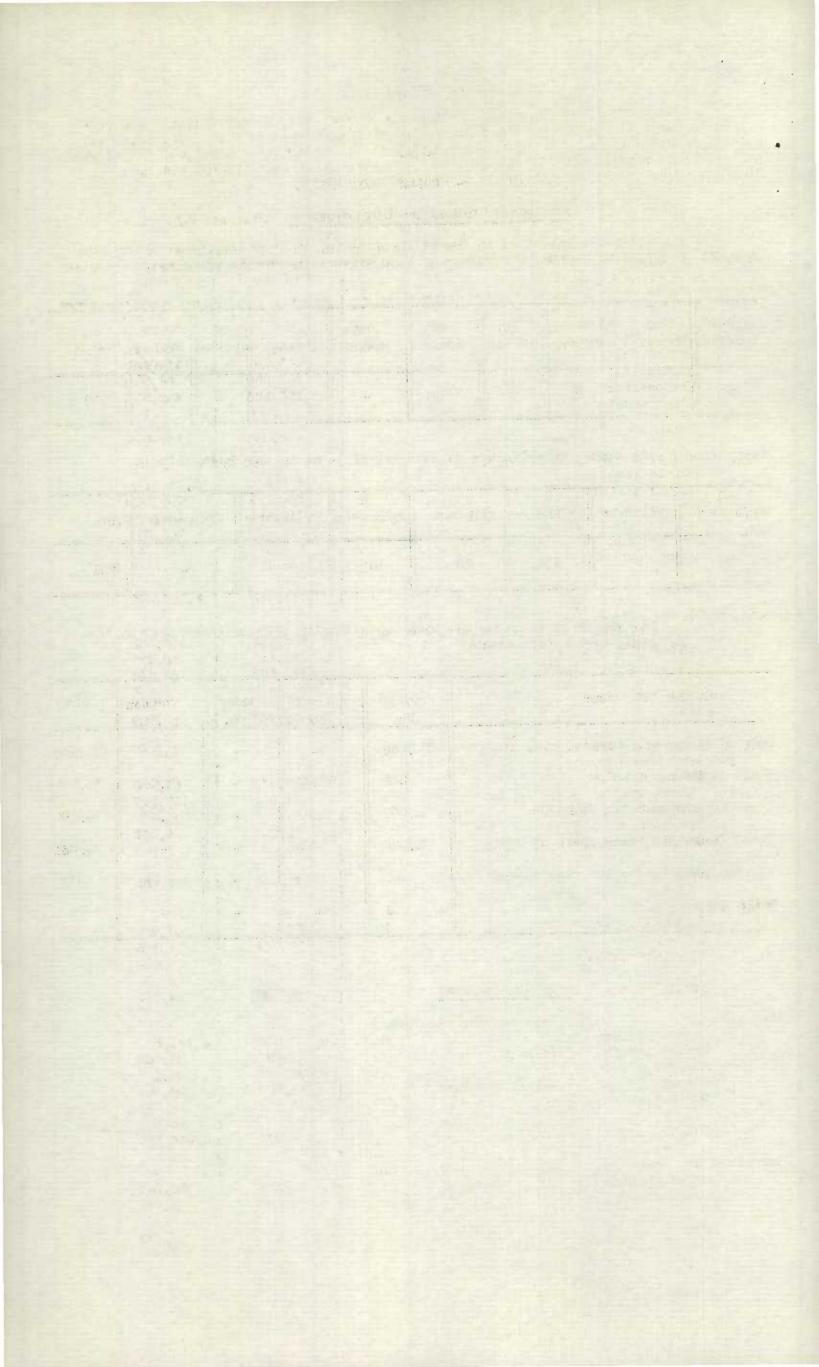
The number of cylinders to each set of cards is set forth below:-

l	2	3	4	5	6	7	Total
Cylinders							
18	4	122	58	13	6		221

The number of spindles and looms operating in 1929 is summarized in the following tabular statement.

Spindles and looms	Woollen No.	Worsted No.	Shoddy No.	Cotton No.	Total
Mule spinning spindles	71,280	- 1		1,300	72,580
Frame spinning spindles	240	16,000	-	2,040	18,280
Doubling and twinting spindles	2,677	4,308	-	2,568	9, 553
Broad looms (50" reed space or over)	1,128	<b>3</b> 53	- 1		1,481
Narrow looms (under 50" reed space)	52	4	~	116	172
Land looms	1			_	1

Other Equipment	Number
Wool combing machines	23
Pickers	48
Garnet machines	11



The quantity and value of the imports of wool and its manufactures are presented in Table 11, by principal countries for the calendar year 1929. The total value of all imports imported for consumption during the year amounted to \$48,577,963 of which raw materials represented \$11,482,362, partly manufactured goods \$5,884,858, and finished products \$31,210,743.

Table 11. Imports of Wool and its Manufactures by Principal Countries, 1 9 2 9.

Articles		Quantity	Value
Raw Materials -			\$
Wool in the grease-			
United Kingiom	lb.	1,163,113	486,748
United States		345,336	117,446
Australia		221,236	86,369
New Zealand		1,871,528	652,338
Other Countries		14,953	5,498
TOTAL		3,616,066	1,348,393
Tool, washed or scoured, etc. n.o.p.	3	· , ,	
United Kingdom		3,365,200	1,747,374
United States		1,728,699	703,149
Australia		239,492	164,504
British South Africa		223,898	104,764
New Zealand		820,829	290,014
Other Countries		273,354	146,255
TOTAL		6,651,472	3,156,560
Wool, pulled or Sliped -			
United Kingdom	lb.	683,782	268,602
United States	70.	142,656	50,962
New Zealand		241,508	86,642
Other Countries		73,540	6,994
TOTAL		1,090,786	412,200
air of the camel, alpaca, etc. not further			
prepared than combed -		Plant of the last	
United Kingdom	lb.	126,976	61,430
United States		498,673	137,917
Australia		-	-
New Zealand		18,037	6,212
Other Countries		84,680	4, 2000
TOTAL		727,746	209,762
oils -			
United Kingdom	15.	427,035	201,685
United States		20,151	9,300
Other Countries		8,499	3,654
TOTAL		455,685	214,639
orsted Tops -			
United Kingdom	lb.	6,202,910	3,869,541
United States	200	23,227	22,780
Australia		208,313	206,157
France		236,076	219,307
Other Countries		14,579	11,984
TOTAL		6,684,905	4,330,269
and the day of man I would be a selected and the selected	lb.	28,138	16,361
		1 13 1 1 1 1 1	1 16 36
arnetted wool waste in the white, etc United Kingdom			1
		6,069	1,937

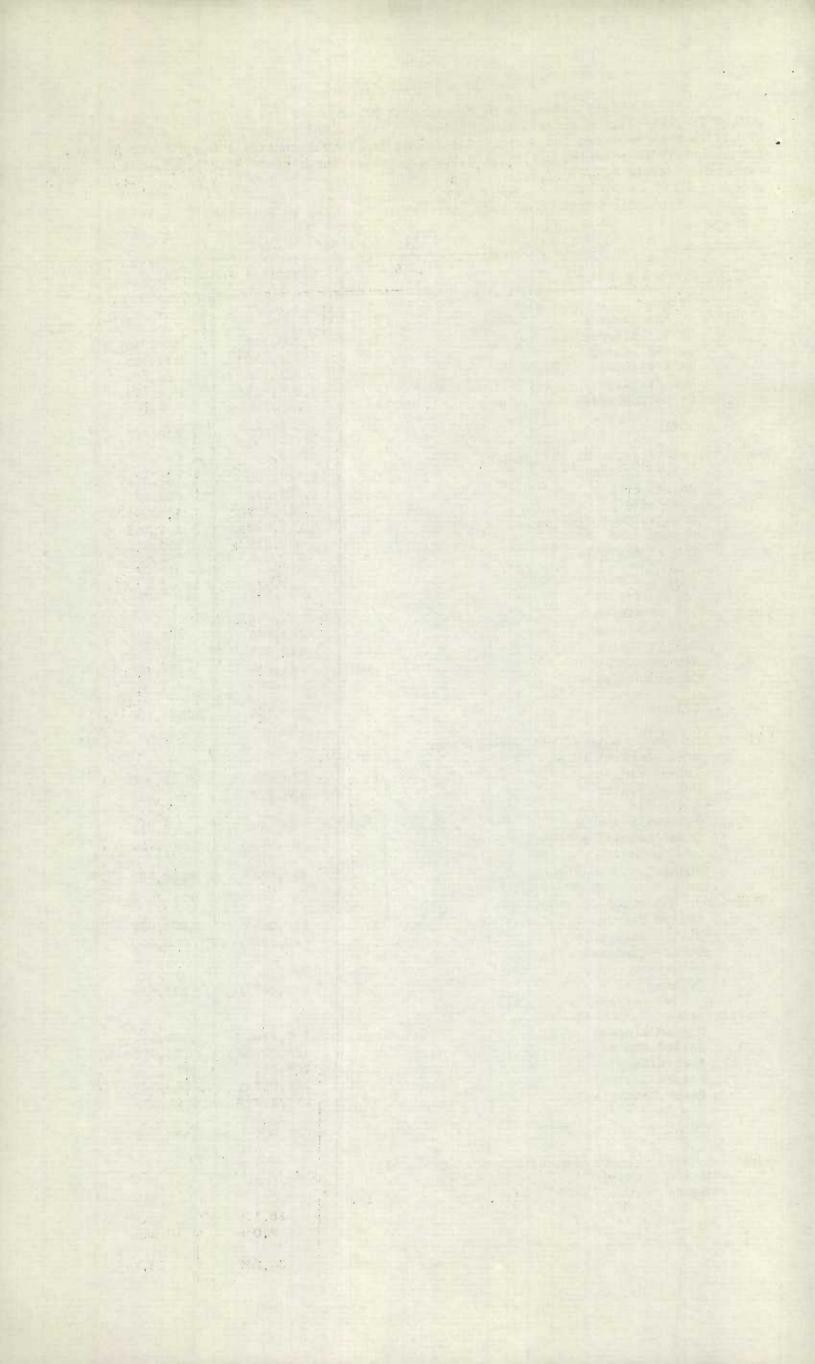


Table 11. - Imports of Wool and its Manufactures by Principal Countries, 1929, (Contid.)

Articles		Quantity	Value
Raw materials (Cont'd).			<b>\\</b>
Rags, waste, etc n.o.p.	cwt.		
United Kingdom	Civo.	120,035	582,501
United States			
		234,203	1,189,350
Netherlands		14,881	85,100
Japen		5,660	12,332
Other Countries		29,994	122,908
TOTAL		404,773	1,792,241
Partly manufactured materials -			
Yarns composed wholly or in part of wool, etc.,			
not containing silk, etc. (9 mos.)	lb.		
United Kingdom		121,511	182,971
United States		4,644	4,606
Other Countries		3,229	4,866
Olici Oddioi 200			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
TOTAL		129,384	192,443
Yarns and warps composed wholly or in part of			
wool, etc., imported by manufacturers, etc.	lb.		
United Kingdom		1,505,698	1,104,588
United States		1,555	2,128
		13,587	25,926
Other Countries		10,001	20,520
TOTAL		1,520,840	1,130,642
Yarns and warps composed wholly or in part of wool			
etc., imported for the weaving of woollen and wor			
fabrics, but not including carpets or rugs (9 mos	.) lb.		
United Kingdom		2,254,820	2,492,967
United States		16,882	15,794
France		104,157	90,014
Other Countries		10,399	9,743
TOTAL		2,386,258	2,608,518
Yarns composed wholly or in chief value of merino			
wool, but not containing silk, etc.	lb.		
United Kingdom		1,642,004	1,925,289
Belgium		9,243	14,160
France		10,653	13,767
United States		18	39
		10	
TOTAL		1,661,918	1,953,256
Wholly manufactured products -			
Woven fabrics composed wholly or in chief part b	V		
weight of wool, etc., imported in the gray or un			
finished condition for the purpose of being dyed			
or finished in	Lane.		4
Canada -	yd.	0 804 604	0.40 0.00
United Kingdom		2,324,564	949,962
Helgium		371,623	135,939
Prence		1,186,918	477,354
Other Countries		10,041	5,009
TOTAL		3,893,146	1,568,264
Woven fabries, consisting of cotton warps with			
wefts of lustre wool, etc.	37.6		
	yd.	617 707	366,429
United Kingdom		611,187	1
United States		2,359	1,798
Other County :		4,302	2,341
Other Countries			
Other Countries TOTAL		617,848	370,568

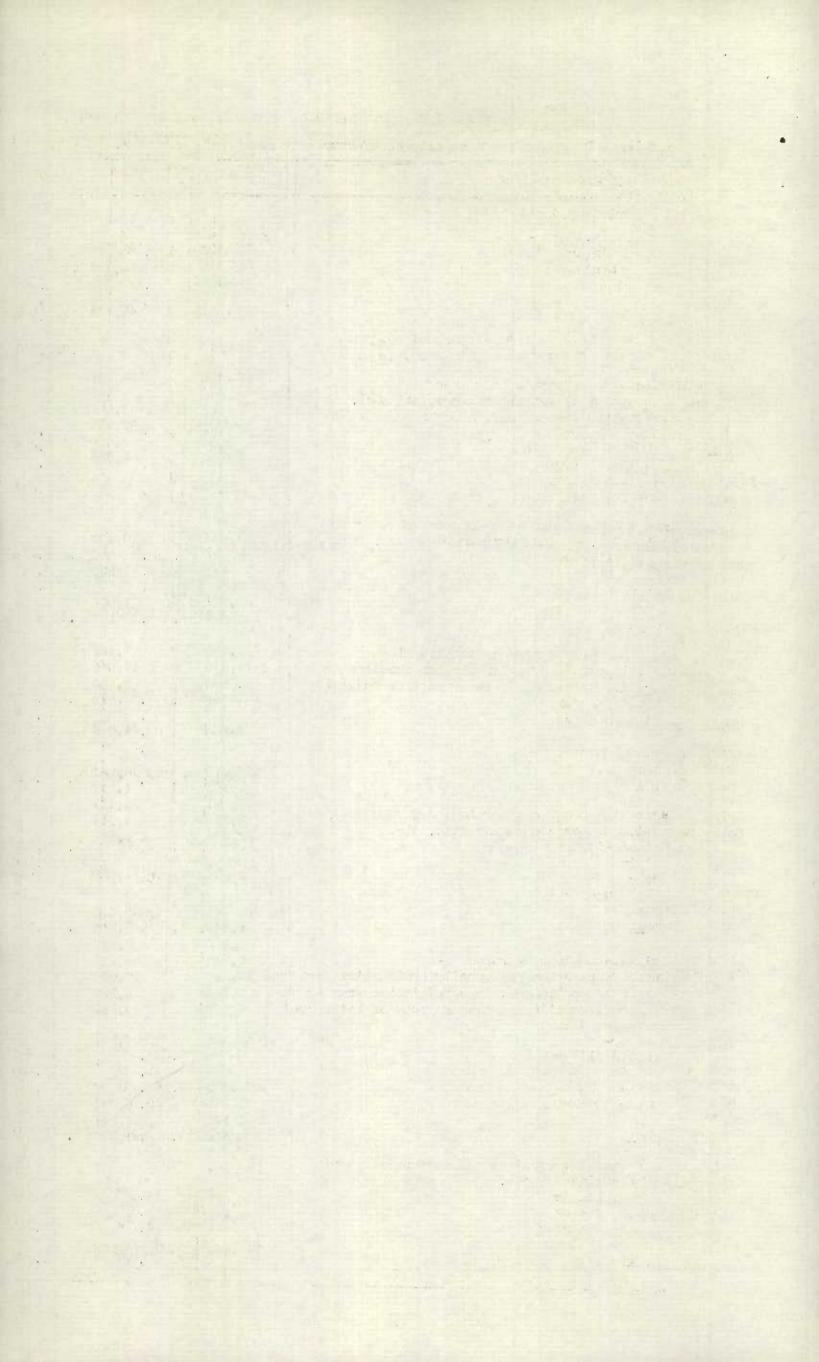
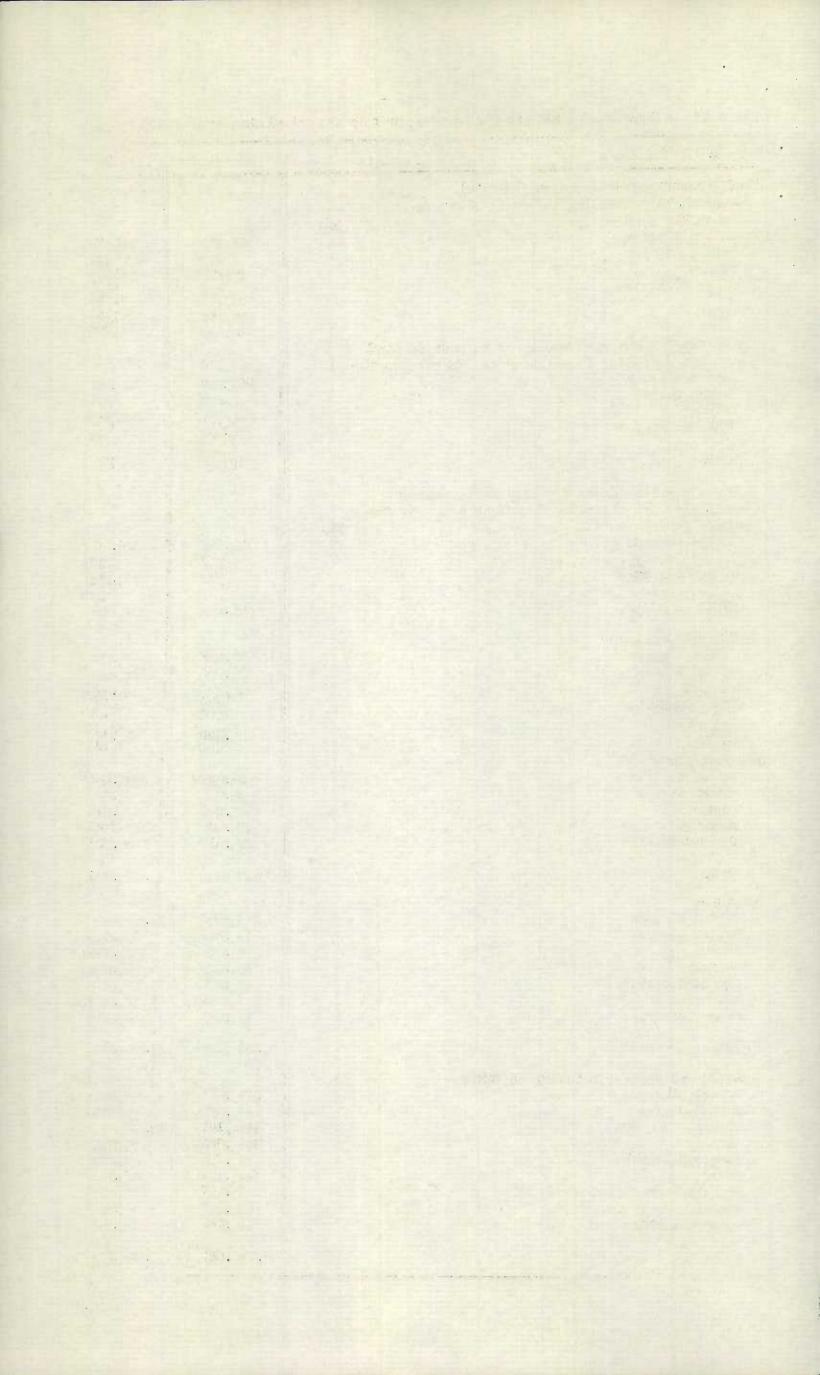


Table 11. - Imports of Wool and its Manufactures by Principal Countries 1929. (Cont'd).

Articles		Quantity	Value
holly manufactured products (Cont'd).			
Flannels, not exceeding in weight 5 oz. to			
the square yard -	yd.		
United Kingdom		64,750	23,354
United States		873	937
France		27,572	18,174
Other Countries		556	399
TOTAL		93,751	42,864
Woven fabrics composed wholly or in part of wool			
etc. not exceeding in weight 5 oz. to the sq.yd.	- yd.		
United Kingdom		308,307	164,485
United States		1,237	895
France		414,482	259,856
Other Countries		66,000	37,319
TOTAL		790,026	462,555
Writted Cabrics compand whells or in west of			
Knitted fabrics composed wholly or in part of wool, etc. not exceeding in weight 5 oz. to the			
square yard -	yd.		
United Kingdom		22,636	10,501
United States		171	257
Other Countries		767	1,150
TOTAL		23,574	11,908
		20,019	11,500
Felt cloth, n.o.p		0.000	
United Kingdom		2,268	7,138
United States		14,345	12,048
Belgium Other Countries		14,699	24,586
			878
TOTAL		31,680	44,650
vercoatings -		005 305	3 000 010
United Kingdom		897,190	1,086,341
United States		3,673	4,717
France		71,051	96,811
Germany Other Countries		112,739	134,731 114,661
		82,915	777,001
TOTAL		1,167,568	1,437,261
Veeds -		7 000 449	7 070 000
United Kingdom		3,282,443	3,038,906
United States		18,840	35,113
France		78,535	123,068
Germany Czecho-Slovakia		85,986 16,013	17,084
Wetherlands		7,220	12,287
Other Countries		45,561	40,589
TOTAL		3,534,598	3,366,996
Vorsted and serges including coatings - United Kingdom	yd.	7,075,237	9,597,097
United States		37,267	70,761
France		881,167	1,121,591
Germany		385,632	492,215
Czecho-Slovakia		47,766	67,777
Italy		144,151	82,063
Netherlands		67,707	155,797
Sweden		60,267	66,916
Other Countries		19,888	21,056
пола г		8 710 000	111 673 973
TOTAL		8,719,082	11,673,273



· Table 11. - Imports of Wool and its Manufactures by Principal Countries 1929 (Cont.d.)

Articles		Quantity	Value
The lite manufactured must be (Quite)			\$
holly manufactured products (Cont'd.)			
Woven fabrics composed wholly or in part of			
wool, etc. n.o.p	yd.		
United Kingdom		2,799,122	2,551,998
United States		271,575	295,174
France		610,942	718,780
Germany		265,788	306,580
Other Countries		225,887	225,700
TOTAL		4,173,314	4,101,232
nitted fabrics composed wholly or part of wool,			
etc. n.o.p	yd.		
United Kingdom		18,849	21,948
United States		3,732	4,405
Other Countries		11,675	12,162
TOTAL		34,254	39,505
and the state of t			
oven or braided fabrics, not exceeding 12" in width whether with cut pile or not composed			
wholly or in part wool, etc	yd.		
United Kingdom			1,589
United States		-	2,511
Other Countries		-	379
			4 4 55 65
TOTAI,		-	4,479
oven fabrics with cut piles or wholly or in			
part of wool etc., n.o.p	yd.		
United Kingdom		278,410	601,472
United States		27,049	76,081
Germany		76,400	162,333
Other Countries		7,404	16,115
TOTAL		389,263	856,002
hawls, wool - value only			
United Kingdom		-	33,496
United States		-	4,706
Other Countries		-	9,709
TOTAL		90	47,911
hirts, wool -	doz.	000	FATE
United Kingdom		288	5,053
United States		38	618
Other Countries		14	137
TOTAL		340	5,808
ocks and stockings, wholly or in part of wool,			
but not containing silk or artificial silk			
valued at more than \$1.50 per 1b	doz.pr.		
United Kingdom		434,223	1,988,237
United States		12,816	40,642
Other Countries		7,658	47,107
TOTAL		454,697	2,075,986
ocks and stockings wholly or in part of wool,			
etc., but not containing silk, etc. valued at			
more than 90¢ per 1b. but not exceeding \$1.50			
per 1b.	doz.pr.		1
United Kingdom		80,860	259,501
United States			
Other Countries		938	2,653
		540	1,673
		82,346	263,827

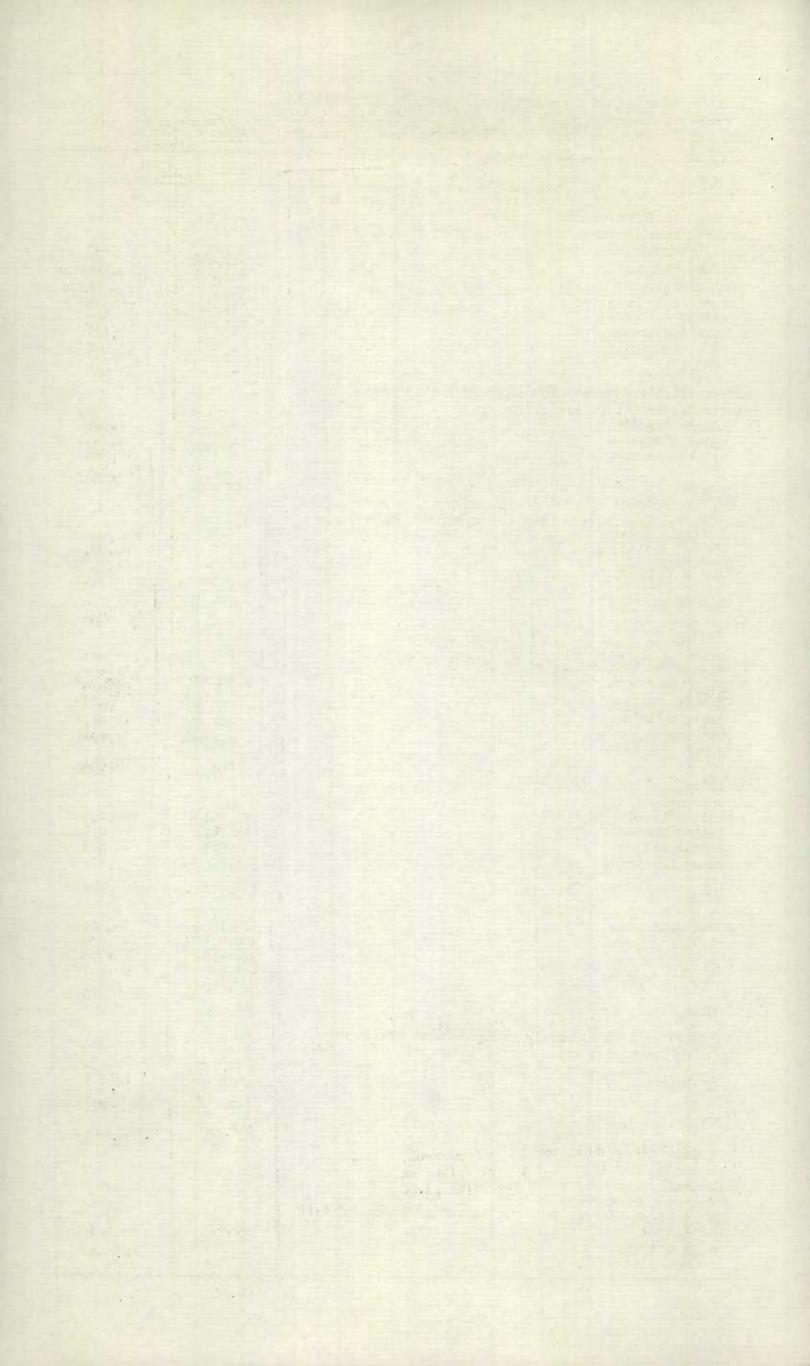
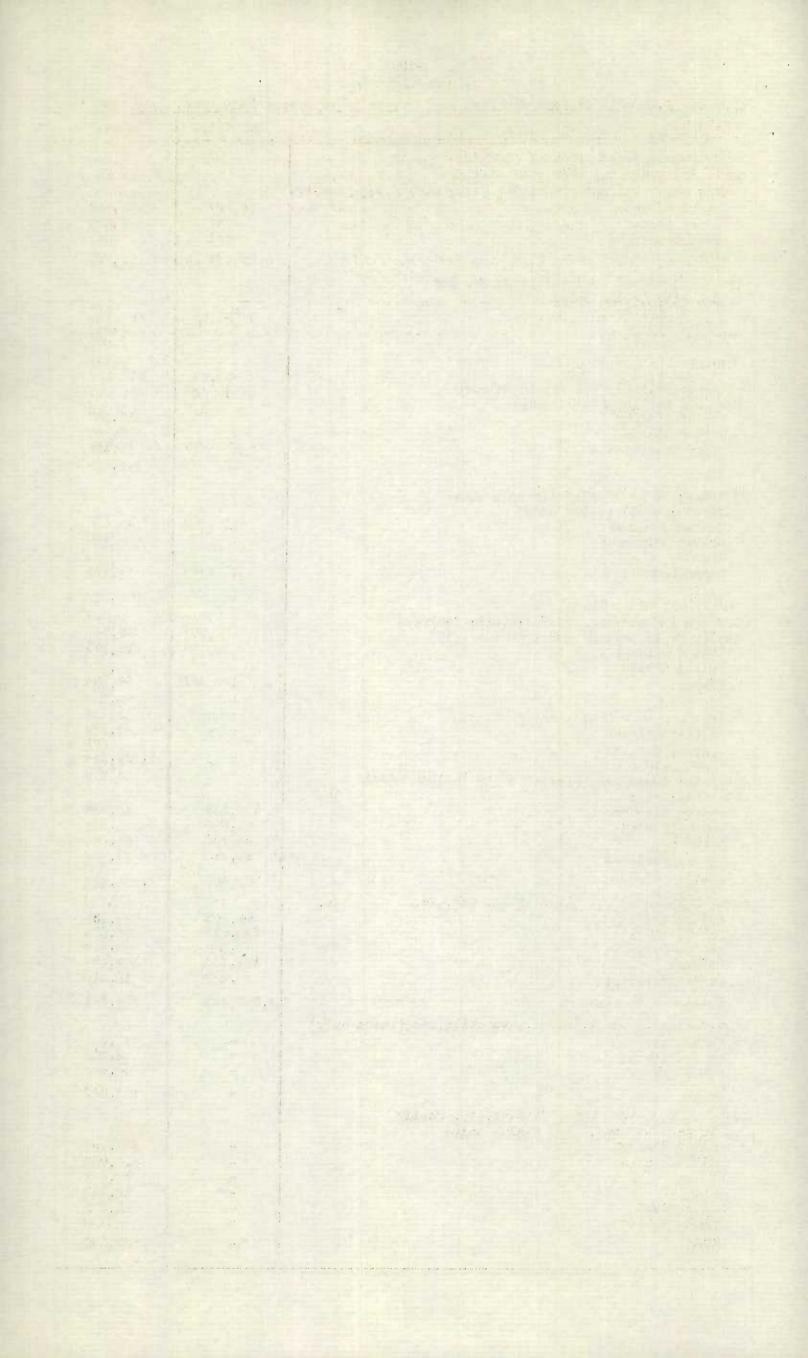


Table 11. - Imports of Wool and Its Manufactures by Principal Countries, 1929 (Contid).

Articles		Quantity	Value
Wholly manufactured products (Cont'd).			Ç
Socks and stockings wholly or part of			
wool, etc., but not containing silk, etc. n.o.p.	doz.pr.		
United Kingdom		26,897	52,303
United States		783	1,898
Other Countries		261	589
TOTAL		27,941	54,790
Underwear, knitted wool valued at 90¢ per			
1b or less, (value only)			
United Kingdom	-	-	385
United States		-	1,967
Other Countries		100	1,078
TOTAL		-	3,430
Inderwear, knitted wool valued at more			
than 90¢ per 1b. (value only)			
United Kingdom			325,007
United States			6,431
Other Countries			13,185
TOTAL	Tuesday		344,623
clothing, women's and children's outer	1		
garments, wool, (value only)			
United Kingdom			237,046
United States	Eventure.		290,071
France			61,967
Other Countries		*	26,642
TOTAL		VIEW CONTRACTOR	615,726
lothing and wearing apparel, n.o.p. composed			
wholly or in part of wool, (value only) United Kingdom			1,359,864
United States		_	280,857
France	Jellie y		29,637
Germany			9,346
Japan		-	12,441
OOther Countries		-	31,509
TOTAL			1,723,654
Blankets, household, n.o.p. not to include horse blankets, etc.	lb.		
United Kingdom	20.	166,242	850,703
United States		44,099	122,013
Germany	OF EACH	34,880	35,078
Other Countries		11,215	27,662
TOTAL		256,436	1,035,456
TOTAL	11	500,100	1,500,100
elt, pressed of all kinds in the web, etc.	1b.	64 100	76 120
United Kingdom		54,107	36,4 <b>3</b> 2 135,878
United States Czecho-Slovakia		119,994	66,459
Germany		161,635	103,989
Other Countries		19,440	13,510
		1,095,193	356,268
TOTAL		1,000,100	300,200
dugs, railway, steamer, lounge, automobile, etc. (value	only)		350 600
United Kingdom			152,029
United States			13,499
Other Countries			
TOTAL		-	171,547
articles made from weven fabrics, etc. wholly			
or in part of wool, etc. (value only)			7.51
United Kingdom		-	174,497
United States		•	314,016
France		-	19,872
Gormany		-	1,352
Switzerland Other Countries		-	13,311
TOTAL			
TOTAL			533,160



# Exports of Wool and Its Products - 1929.

The exports of Canadian wool and manufactures for the calendar year 1929 are shown in Table 12. The total value of exports during 1929 was \$2,135,082, as compared with \$3,420,481 in 1928, a decrease of \$1,285,399. Of the total value of Canadian produce exported 71.6 per cent went to the United States, 10.7 per cent to the United Kingdom and 17.7 per cent to Other Countries.

Table 12. - Exports of Canadian Produce by Principal Countries, Calendar Year, 1929.

Articles and Countries		Quantity	Value
			\$
Wool in the grease -	lb.		
United Kingdom		998,697	216,252
United States		4,735,507	1,330,017
Other Countries		110,812	22,320
TOTAL		5,843,016	1,569,089
vool, scoured or washed -	lb.		
United Kingdom			_
United States		118,990	36,375
Other Countries		1,366	408
TOTAL		120,356	36,783
	lb.		
Mool, pulled or Sliped -		7 274	3,019
United Kingdom		7,214 89.091	46,542
United States			
Other Countries		30,148	15,143
TOTAL		126,453	64,704
Tool Carpets - (value only)			
United Kingdom		-	2,749
United States			6,373
New Zealand		-	42,817
Other Countries		-	23,259
TOTAL		_	75,198
ool Fabrics			
	Yd.	130	683
United Kingdom	2. 4.4	305	952
United States		16,392	20,731
Newfoundland		-	-
Other Countries			
TOTAL		16,827	22,366

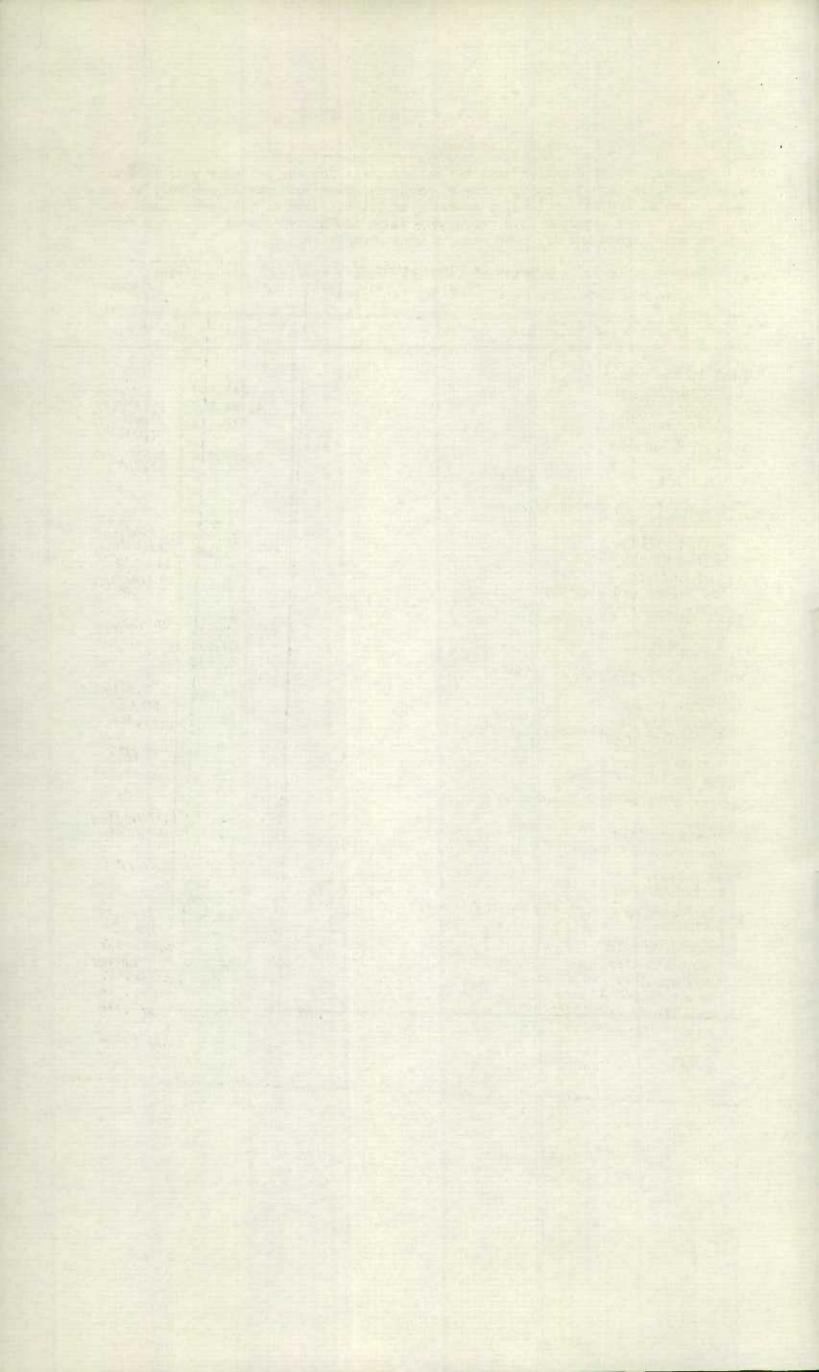
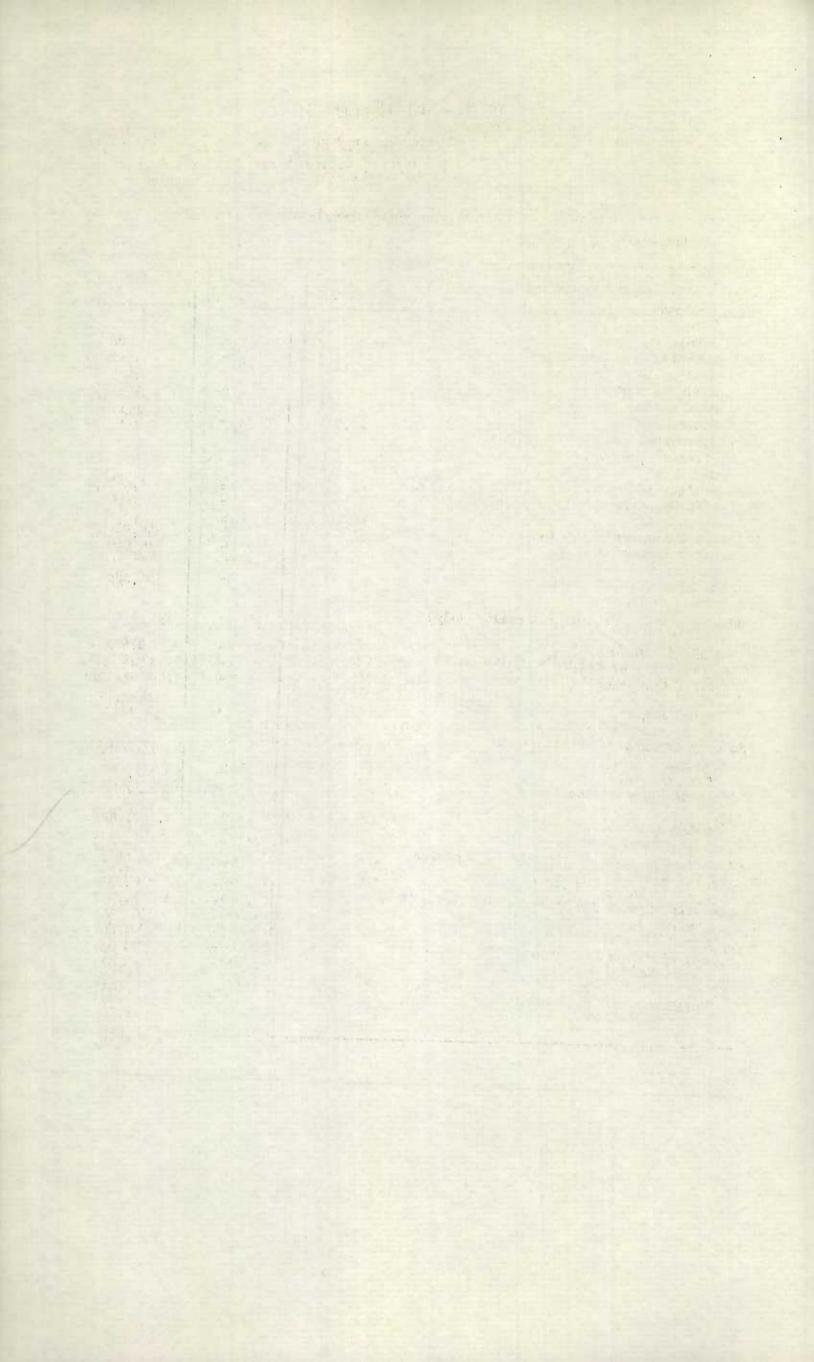


Table 12. - Exports of Canadian Produce by Principal Countries,

Calendar Year, 1929.

Earl For at Landston and Black government of the Control of the Co		and the second s
Articles and Countries	Quantity	Value
		\$
Wool underweer - (value only)		
United Kingdom		22
United States		1,841
Newfoundland		9,229
Other Countries		2,608
		3,000
TOTAL		13,700
Wool clothing, n.o.p (value only)		
United Kingdom		3,442
United States		56,900
Newfoundland		146,668
St. Pierre and Miquelon		29,216
Other Countries	-	49,096
TOTAI,	-	285,322
Wool manufactures, n.o.p (value only)		
United Kingdom	100	2,851
United States	t-w	50,625
Other Countries	STATE OF THE STATE	14,444
ТСТАЬ		67,920
		, , , , , , , , , , , , , , , , , , , ,
Surmary of Exports by Classes -		
Raw Materials		1,670,576
Manufactured goods	-	464,506
TOTAL		2,135,082
Surmary of Exports by Principal Countries		
United Kingdom		229,018
United States		1,529,625
Newfoundland		176,628
New Zealand		42,817
St. Pierre and Miquelon		29,216
Other Countries	-	127,778
TOTAL	-	2,135,082
	A STATE OF THE PARTY OF THE PAR	and the second s



### SECTION II. - Woollen Yarns

Statistics of the woollen yarn industry in Canada for the calendar year 1929 form the subject matter of the second section of the Woollen Textile Industry. Table 1 presents the principal Statistics of this section comparatively for the calendar years 1927, 1928 and 1929.

Table 1.- Principal Statistics of the Woollen Yarn Industry, 1927-1929

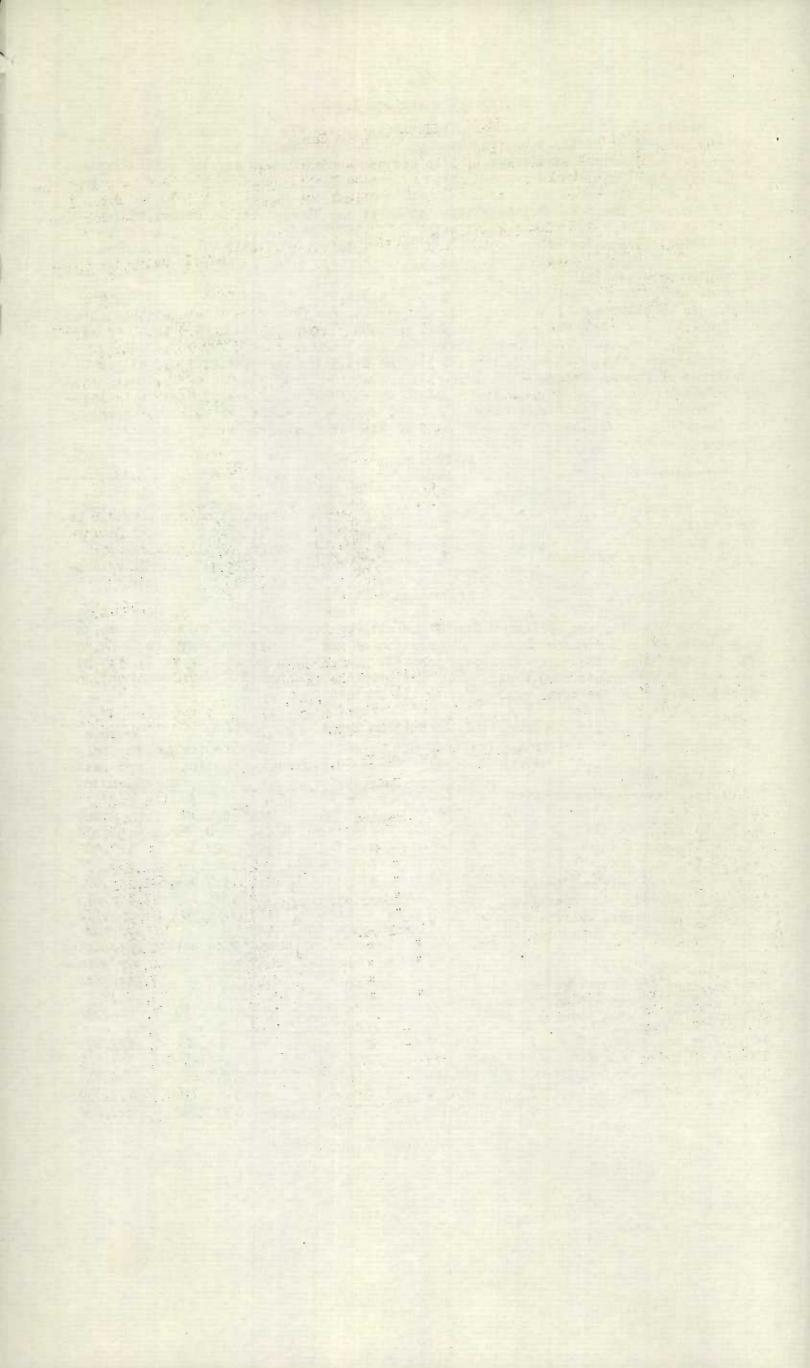
Principal Statistics		1927	1928	1929
Establishments reporting Capital invested Employees on salaries -	100. \$	9,761,057	8,810,695	27 7,699,902
Male Femele Salaries	No. "	44 20 173,311	50 27 181,236	48 19 149,098
Fuployees or wages, average - Male Female Wages	No <b>~</b> #	714 870 1,117,048	1,045 1,235,064	1,017 1,131,376
Power installed - Units Capacity Cost of fuel Cost of electricity Cost of materials	No. H.P. \$	198 3,240 99,621 47,621 4,455,941	217 3,908 77,469 53,691 4,789,168	204 3,103 35,217 66,258 3,962,096
Value of products Value added by manufacture	\$ 55	6,944,765 2,488,824	7,706,740 2,917,572	7,027,242 3,065,146

## Production Statistics

The quantity and selling value at the mill or factory of the various yarns and other products manufactured in this section of the industry are shown in Table 2 for the Dominion. The value of production fell from \$7,706,740 in 1928 to \$7,027,242 in 1929, or a decrease of 5.8 per cent. The province of Contario alone accounted for 55.66 per cent of the total production in the Dominion.

Table 2.- Production of Woollen Yarns, etc. 1929.

Articles produced	Unit of Measure	quantity	Selling Value at mill or Factory
Woollen yarns Vorsted yarns Cotton yarns Wool waste and noils Wool felts for pulp and paper making Carpets, velvet, etc. cut pile Carpets, Axminster, Wilton, etc. Carpets, tapestry, Brussels, etc. Flannels Botanv Jersey Cloth Glove, shoe and rubber linings All other products (value only) Received for custom work	pound  "" "" lineal yd. "" "" "" "" pound	2,584,430 4,629,628 162,216 102,047 119,082 55,674 164,040 177,132 296,815 56,320 55,953	\$ 901,828 4,641,251 47,497 24,913 187,532 91,052 600,352 197,608 135,967 67,583 44,762 68,693 18,004
Total value of products			7,027,242



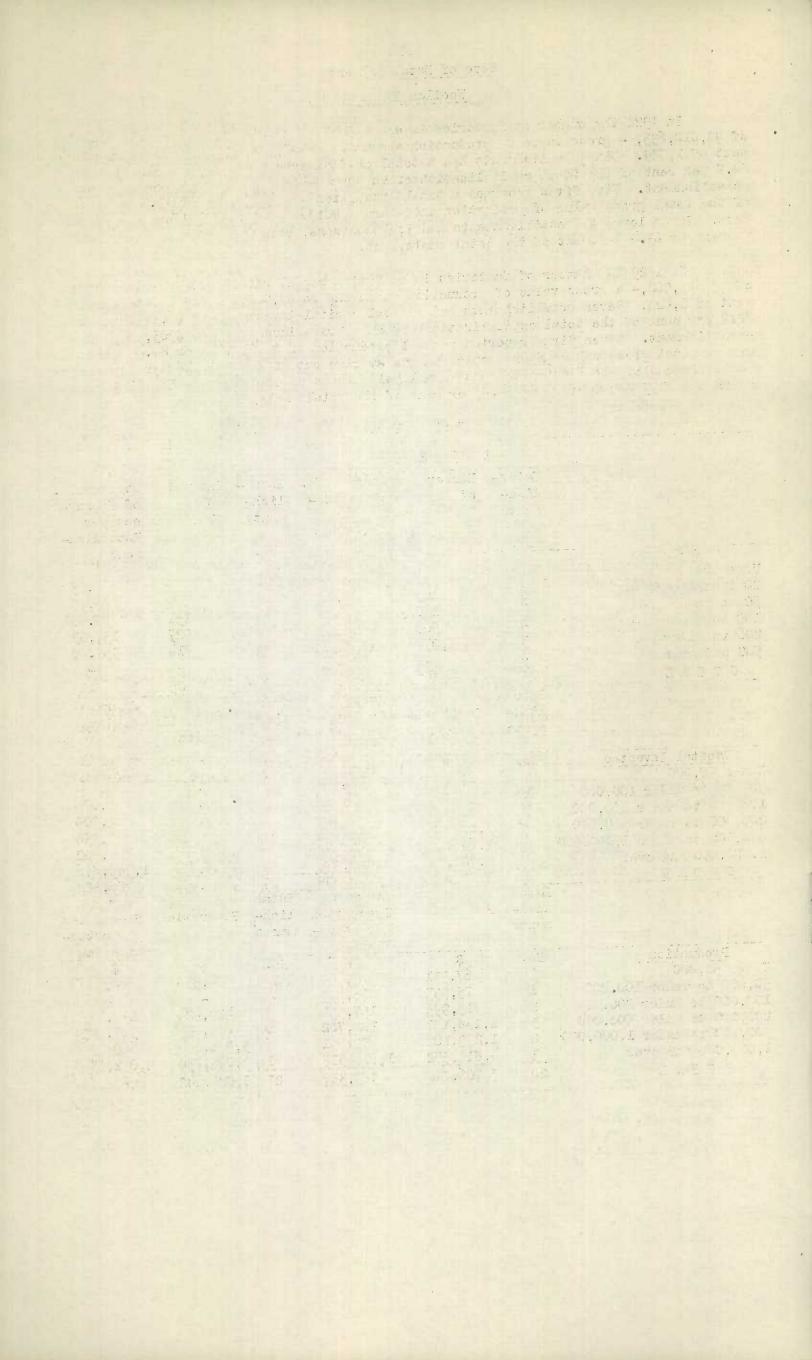
## \_19\_ Size of Establishments Woollen Yarns -1929.

In 1928 the number of factories in operation was 20 with a total capitalization of \$8,810,695, - gross value of production amounting to \$7,706,740 and a total employment of 1,889. Six establishments had a total capital investment of \$7,470,570 or 84.8 per cent of the total capitalization or an average investment of \$1,245,095 per establishment. Five firms reported a total production of \$6,098,654 or 79.1 per cent of the total gross value of production and average output of \$1,219,731 per establishment. In employment 7 establishments had 1,576 persons, being an average of 225 per factory or 83.4 per cent of the total employment.

In 1929 the number of factories in operation was 27 with a total capitalization of \$7,699,902,— a gross value of production amounting to \$7,027,242 and a total employment of 1,825. Seven establishments had a total capital investment of \$6,327,686 or 82.2 per cent of the total capitalization and an average investment of \$903,955 per establishment. Seven firms reported a total production of \$5,934,025 or 84.4 per cent of the total gross value of production and an average output of \$847,718 per establishment. In employment 8 establishments had 1,541 persons on their pay rolls being an average of 193 per factory or 84.4 per cent of the total employment.

Wo	ol	len	Ya	rns
----	----	-----	----	-----

		Wooller Y	arns			
		1 9 2	8		1 9 2	9
	Estab-	Number	Average No.	Estab.	- Number	Average No.
	lish-	of	of Employ-	lish-	of	of Employ-
	ments	Employees	nes per	ments	Employees	ees per
			Establish-			Establish-
	No.		ment	No.		ment
Employees	1				-1.	
Under 20	8	38	4.75	15	74	4.93
20 to under 50	3	105	35.00	2	79	39.50
50 to under 100	2	170	85,00	2	131	65.50
100 to under 200	4	502	125.50	6	827	137,83
200 to under 500	3	1,074	358.00	2	714	357.00
500 and over	-		-			
TOTAL	20	1,589	94,45	27	. 1,825	67.59
	Estab-		Average	Estab		Average
	lish-	Capitaliz-		lish-	-	
	ments	ation	per estab-	ments	ation	per estab-
		and the second s	lishment			lishment
Capital Invested	No.	\$	\$	No.	\$	\$
Under 50,000	8	133:532	16,691	14	128,280	9,163
50,000 to under 100,000	1	69,632	69,632	1	50,674	50,674
100,000 to under 200,000	1	124,663	124,663	1	127,908	127,908
200,000 to under 500,000	Ţİ	1,012,298	253,074	4	1,065,354	265,338
500,000 to under 1,000,000	2	1,686,669	843:335	6	4,393,810	732,302
1,000,000 and over	4	5,783,901	1,445,975	1	1,933,876	1,933,376
TOTAL	20	8,810,695	440,585	27	7,699,902	285,182
	Estab-		Average	Estab		Average
	lish-	Production	Production	lish-	Production	
	ments		per estab-	ments		per estab- lishment
	37		lishment	37-		TISTMETT
Production	No.	\$ 007	\$ == 1.	No.	\$ 7)1 775	4,956
Under 50,000	9	67.991	7,554	15	74,335	4,900
50,000 to under 100,000	1	75,993	75,993	7	412,424	137,475
100,000 to under 200,000	3	315,995	157,998	3 2	605,458	303,229
200,000 to under 500,000		1,142,107	382,702	6	3,841,295	640,216
500,000 to under 1,000,000		1,279,102	639,551	1	2,092,730	2,092,730
1,000,000 and over	3	4,819,552	1,606.517			
TOTAL	50	7,706.740	385,337	27	7,027.242	260,268
			+			10 M us as 10 M us as 11 M m



### Capital Investment

The amount of capital invested in the woollen yarn industry in 1929 is shown by items and provinces in Table 3. Fixed capital comprising land, buildings, machinery and tools, which in 1928 amounted to \$4,205,137 decreased during the year by \$154,130 whilst working capital comprising materials, stocks and supplies on hand and cash, trading and operating accounts also decreased by \$955,663. Total capital, therefore, shows a decrease from 1928 of \$1,110,793. Ontario provided 83.21 per cent of the total capital, Quebec 12.53 per cent, the Maritime provinces .94 per cent and the Western provinces 3.32 per cent.

Table 3 .- Capital invested in Woollen Yarn Mills, by Provinces, 1929.

and the subsection of the set of	Fixed Capital	Working	Capital	Total
Provinces	Land, buildings etc. machinery and tools	Materials and stocks on hand, miscellaneous	Cash, trading and operating accounts, etc.	Capital
could do be no in the country of in the process of it in a final country continues.	\$	supplies, etc.	\$	\$
Maritime Provinces			225 100	
and Quebec	646,632	275,323 1,765,233	115,422 870,346	1,037,377 6,40£,683
Manitoba and	),     1, 10	4, (0), (0)	0,0,0,10	0, 100, 000
British Columbia	233,271	19,938	2,633	255,842
CANADA	4,651,007	2,060,494	988,401	7,699,902

#### Employment Statistics

The statistics relating to employment in the woollen yarn mills are presented in the following series of tables, for the calendar year 1929.

Table 4. - Employees by classes, number and remuneration by provinces. Table 5. - Employees on wages, by months and sex. Table 6.- Working time of plants and employees.

The number of persons at employment, whether on salaries or wages, is shown by sex and remuneration, for Canada and the provinces in Table 4. The province of Ontario furnished 62.1 per cent of the male employees, 89.4 per cent of the females and expended in salaries and wages, etc. 80.5 per cent of the total for the Dominion.

The average number of wage earners employed in any industry is calculated on the actual number of months the mills were in operation and not on a basis of 12 calendar months.

Table 4 .- Employees by Number, Sex and Remuneration, 1929.

Employment by Classes, etc.		CANADA	Ontario	Maritime Provinces and Quebec	Western Provinces
Salaried Employees - Male Female Total Salaries	No. No. \$	48 19 149,098	38 17 124,014	14 14,824	6 1 10,260
Wage-earners, average number - Male Female Total Wages	No. No. \$	741 1,017 1,131,976	452 909 907,269	268 82 195,655	21 26 29,052
TOTAL - Employees, Male Employees, Female Salaries and Wages	No. No.	789 1,036 1,281,074	490 926 1,031,283	272 83 210,479	27 27 39,312

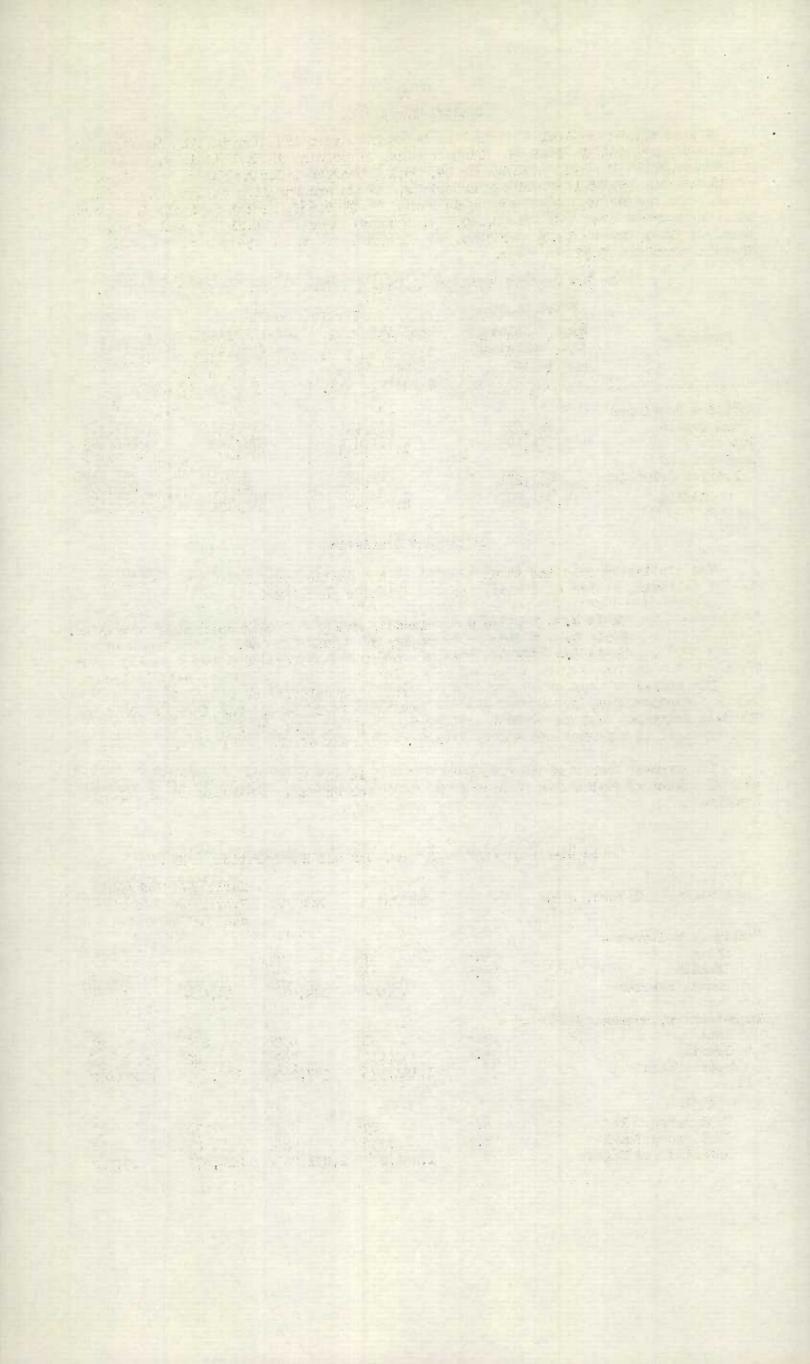


Table 5 presents statistics of wage-earning employees in month of highest employment working specified hours per day for Canada and the provinces with percentages of persons working at each specified daily rate. From the table following it will be noted that the prevailing daily rate was that of the groups of wage-earners working 9 and 10 hours per day, the percentages being 50.97 and 25.14 respectively. The next in order was the 8 hour group with 10.99 per cent whilet in the group working more than 10 hours it was 2.90 per cent.

Table 5.- Hours worked per day by wage-earners in month of highest employment for Canada and the provinces, 1929.

commence of the second	gradien with a discountry way. In the last way							
	Numbe	r of wage-	earners i	n			1	
	month	of highes	t emoloym	ent	Per	centage of	wage-ear	ners
Provinces		ng per day				ting per d		
	8 hours	19.		Over 10		The post of		Over 10
	or less	9 hours	10 hours	1	of less	9 hours	10 hours	
CANADA	212	1,175	1175	56	10.00			
يتطالبك المتقدال	C.1C	7,110	485	20 :	10.99	00.95	25.14	2.90
Wova Scotia		_ /	-	- ;	-	100.0	- 1	
New Brunswick	-	18	15		word .	54.55	45.45	- Band
Quebec		-	278	52 !	640		84.24	15.76
Ontario	212	1,087	192	4 1	14.18	72.71	12.84	.27
Manitoba	000	9		00-0	-	100.0	-	-
British						1		
Columbia		55		- 1	- Green	100.0	_	glis

Table 5(a) shows the hours of labour per day and per week for Canada and the provinces. The statistics relating to hours of labour in columns 1, 2 and 3 are compiled from the number of employees working specified hours per day in the month of highest employment whilst those in columns 4 and 5 represent the standard weekly hours of labour in the industry as reported to the Bureau by each individual establishment.

The average daily hours of labour computed on the above basis for the Dominion was 9.19 hours per day and 52.26 hours per week.

Table 5(a) .- Hours of Labour per day and per week, for Canada and the Provinces, 1929.

		rs and numb	er of wage- nighest em-	Standard w	Standard working hours		
Provinces	Total hours	Total wage- carners	Average hours per day per wage- earners	Total hours	Average hours per wage- earner per week, per establishment		
CANADA	17,718	1,929	9.19	1,411	52.26		
Nova Scotia New Brunswick Quebec Ontario Manitoba British Columbia	63 312 3,326 13,441 81	7 33 330 1,495 9	9.00 9.45 10.79 8.99 9.00	162 271 55 826 49	54.00 54.20 55.00 51.62 49.00		

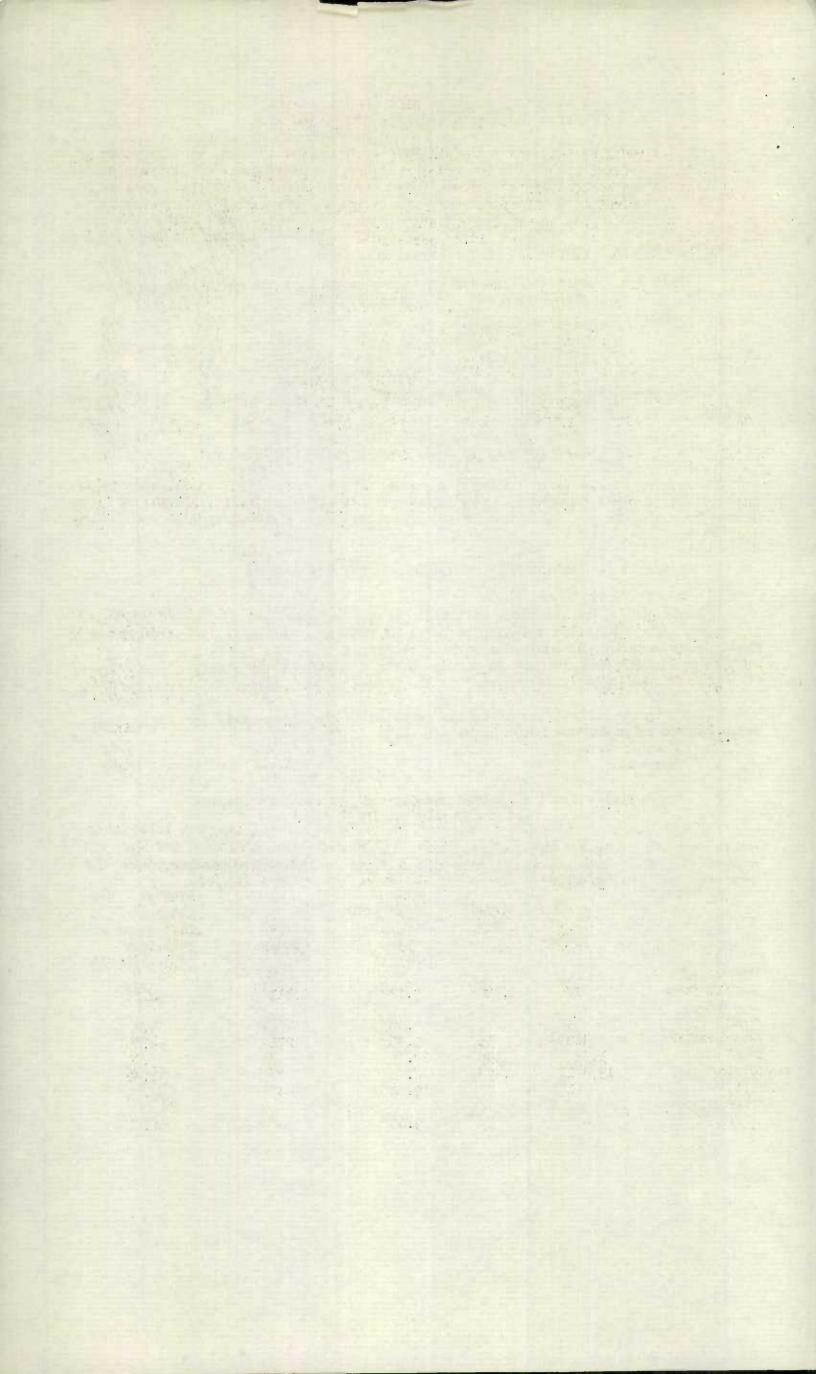


Table 5 presents the statistics of employment during 1929 according to number and sex of wage-earner, by months. The maximum of employment was reached in the month of February with a total of 1,547 employees of whom 743 were males and 1,104 were females. The minimum of employment was reached in September with a total of 1,532 employees, of whom 551 were males and 851 were females. The average employment for the year was 741 males and 1,017 females.

Table 6 .- Employment by Months and Sex, 1929.

Months	Males No.	Temales No.	Months	Males No.	Females No.
January February March April May June	73 7 743 723 739 741 743	1,089 1,104 1,092 1,073 1,047 1,006	July August September October November December	734 705 681 702 742 717	985 918 851 897 927 964
Total employment during the year Average monthly employment during year					11,953 1,017

Working Time. Table 7 shows the number of days that plants were in operation during 1929, whether on full time, part time or idle, together with the hours of labour worked by employeds per day and per week. Hours worked per day decreased from 9.20 in 1925 to 9.19 in 1929.

Table 7 .- Working Time of Plants and Employees, 1929.

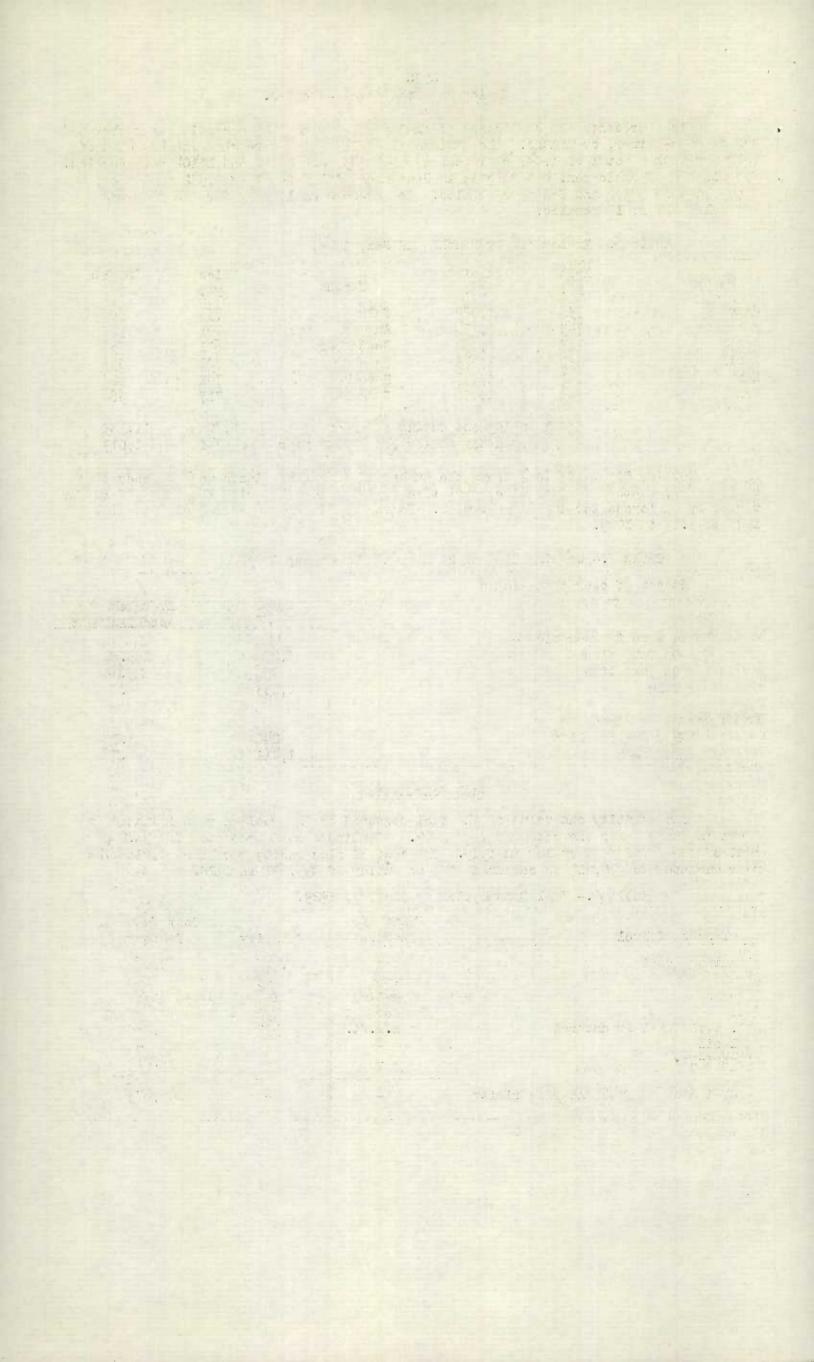
Number of operating plants	27		
	Total	Averages per establishment	
Days plants were in operation - On full time On part time Idle	5,279 796 2,133	195.52 29.48 79.00	
Hours worked by employees  Per day or shift  Per week	248 1,411	9•19 52•26	

### Fuel Consumption

The quantity and value of the fuel consumed by the woollen yarn industry is shown in Table 8 for the calendar year 1929. Bituminous coal accounted for 95.2 per cent of the total fuel outlay in 1929. The cost of electricity purchased during the year amounted to \$39,217 as compared with an outlay of \$53,691 in 1928.

Table 8 .- Fuel Consumption by Classes, 1929.

Classes of Fuel	Unit of Measure	Quantity	Cost Value in Factory
Bituminous Coal Lignite Coal Gasoline Wood Gas, artificial or natural Fuel oil Electricity	ton ton gallon cord n.c.ft.	9,917 43 145 732 399	63,065 185 37 2,731 240 - 39,217
Total cost of Fuel and Electricity		₩	105,475



#### -23-Power Installation

The power installed in woollen yarn mills in 1929 is shown in Table 9 by
(a) the classes of power, (b) the number of units in each class and (c) the total horsepower according to manufacturer's rating.

Table 9. Power Installation, 1929.

Class of Power	Number of units	Horse Power accord- ing to manufacturers! rating
Steam engines and turbines	8	181
Oil, gas and gasoline engines	3	30
Hydraulic turbines or water wheels	6	139
Electric motors operated by purchased power	187	2,753
Total power used in manufacturing	204	3,103
Boilers installed	29	2,585

#### Materials Used

The quantity and cost value at the mill of the various materials used in the manufacture of woollen and worsted yarn, is presented in Table 10 for the calendar year 1929. Raw wool represented 3.79 per cent, tops and waste and noils 70.88 per cent, and woollen and worsted yarns 12.78 per cent of the total cost of materials used during the year.

Table 10 .- Materials used in Woollen Yarm Mills, 1929.

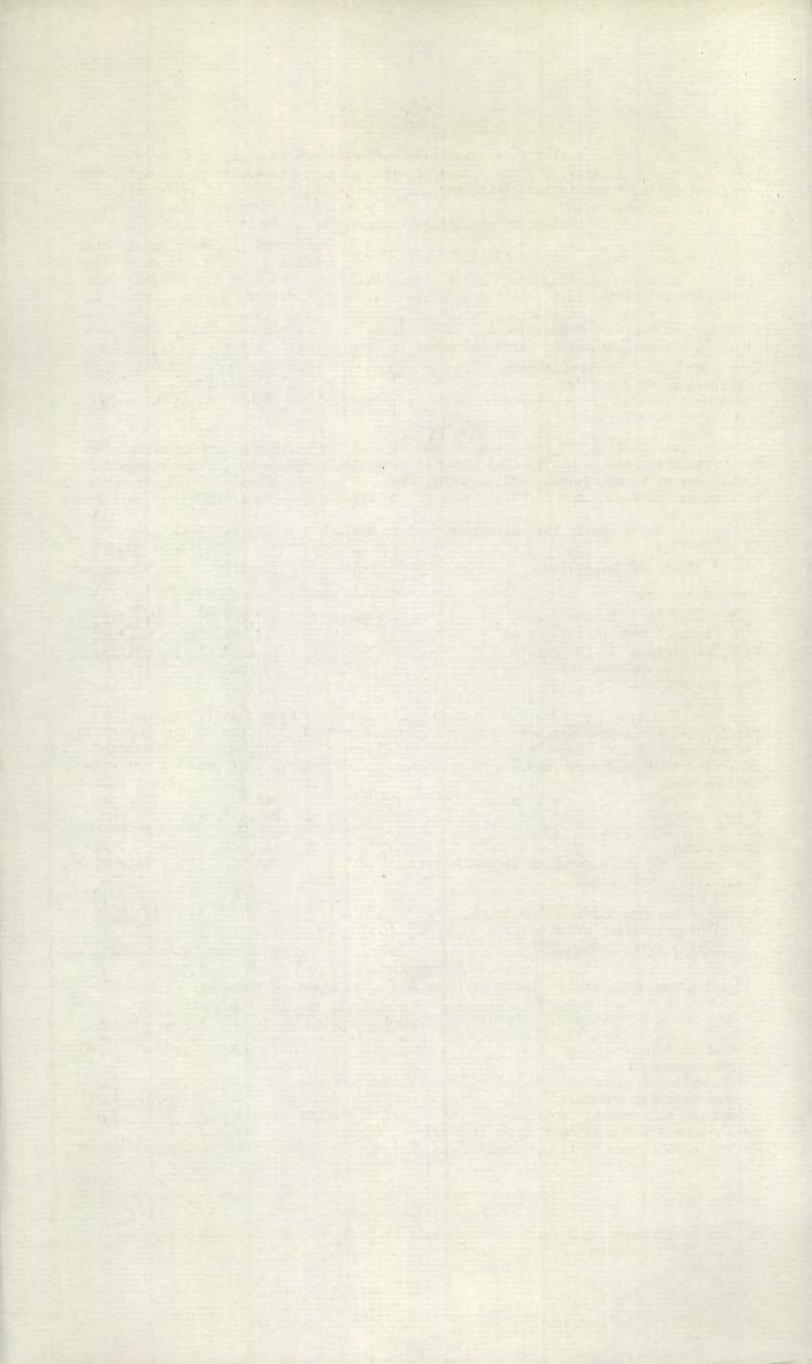
Total Total Manager and Tax	110011011		-)-
	Unit of		Cost Value at
Kinds of Materials	Measure	Quantity	the Factory or
			Mill
			\$
Wool, domestic, - In the grease	Pound	197,225	51,443
Washed, scoured and pulled	11	13,748	4,395
Wool, foreign, - In the grease	11	169,039	69,132
Washed, scoured and pulled	11	34,502	15,451
Wool waste	11	39,336	8,714
Wool noils	II .	676	325
Tops	n	4,654,080	2,799,149
Shoddy, mungo and wool extract	ft	77,395	15,981
Cotton, raw	II .	420,484	89,952
Tailors' clippings, rags, etc.	11	4,882	488
Wooilen yarns	11	717,336	193,640
Worsted yarns	11	388,409	312,504
Octton yarns	11	205,597	69,414
Artificial sil' yarn	11	23,649	25,355
Linen yarns	11	28,384	5,670
Jute ramie, or other yarns of vegetable fibre	11	292,931	38,488
Silk, waste (artificial)	* 11	6,774	1,764
Merino yams		31,656	42,144
Chemicals and dyestuffs (value only)		-	154,252
All other materials (value only)		-	52,775
Total cost of Materials	gas.	and	3,962,096

#### Equipment

The equipment of the 27 mills reporting is shown in Table 11.

Table 11. - Equipment installed in Woollen Yarn Mills, 1929. Worsted Shoddy Cotton TOTAL Kind Toollen 80 3 Sets of cards Spindles, number: 19,614 19,614 Mule spinning spindles 40,634 41,171 Frame spinning spindles 537 17,981 Doubling and twisting spindles 45 Broad Locas (50 inches reed space or over) 14 Marrow looms (under 50 inches reed space) 50 Wool combing machines Pickers Garnet machines Imports and Exports

Figures of Imports and Exports of yarns will be found in Tables 11 and 12, under Woollen Cloth Industry.



#### SECTION III. Carpets, Mats and Rugs

The statistics of the manufactures of carpets, mats and rugs are dealt with in Section 3 of the woollen textile industry. In 1929 the number of individual establishments reporting was 22 of which 16 were in Ontario, and 1 in each of Nova Scotia, New Brunswick, Alberta, Saskatchewan, Manitoba and British Columbia.

#### Principal Statistics

A table showing the principal statistics of the industry for the calendar years 1927, 1928 and 1929 is given below for purposes of comparison.

Summary of Principal Statistics, 1927, 1928 and 1929.

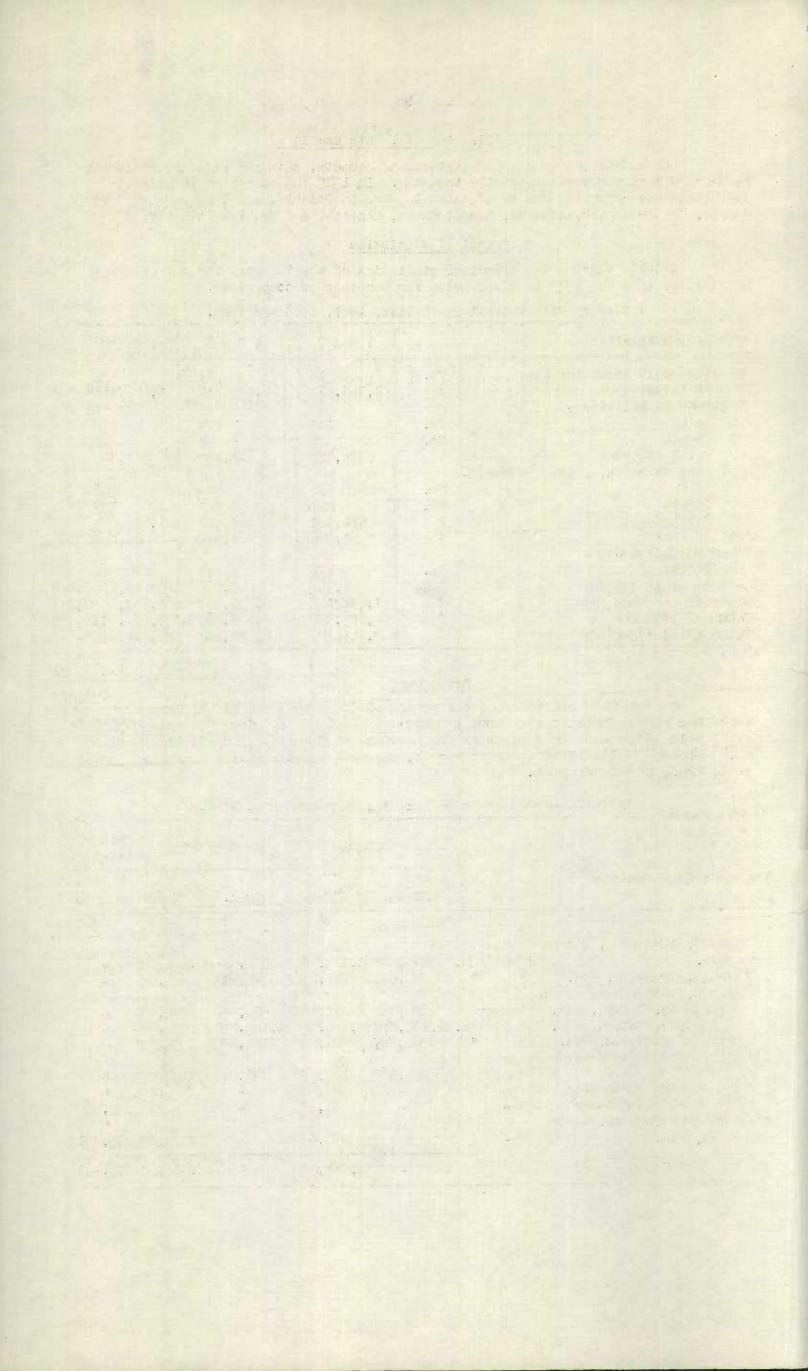
Principal Statistics		1927	1928	1929
Establishments reporting	No:	18	22	22
Capital invested	\$	4,343,572	5,072,610	6,446,734
Employees on salaries -				
Male	No.	117	174	172
Pemale	No.	26	42	42
Total Salaries	\$	339,427	442,277	461,360
Imployees on wages, average number -				
Male	No.	531	559	696
Female	No.	274	362	383
Total Wages	\$	681,021	854,527	1,002,325
Cost of fuel	\$	62,406	61,666	68,969
Power installed -				
Units	No.	278	275	265
Capacity	H.P.	2,310	2,267	2,115
Cost of Materials	\$	1,692,111	2,370,903	2,559,680
Value of Products	\$	4,015,339	5,009,240	5,434,555
Value added by manufacture	*	2,323,228	2,638,337	2,374,875

#### Production

The quantity and value of the principal items produced in the carpet factories of the Dominion are shown by provinces in Table 1. Over 98 per cent of the total value of production belongs to the province of Chtario. Carpets contributed 21.4 per cent of the total value of output, rugs and squares 69.8 per cent and other mats, etc., to 8.8 per cent.

Table 1. - Production of Carpets, Mats and Rugs, 1929.

	CA	IADA	ONT.	Other	
Articles manufactured	Quan.	Value	Quan.	Value	Value
		\$		\$	\$
Carpets, Axminster, Wilton			}		
etc. lineal yds. Ingrain, Brussels, etc. " "		1,102,951 62,026			
Aminster, Wilton, etc. Fumber Aminster, Wilton, etc. lineal yds. Smyrna, Frussels, etc. " " Other woollen or cotton	1,108,392	2,950,240	1,108,392	2,950,240	-
Dats Cocoa mats and matting All other mats and rugs -		141,952 97,085 71,226		141,052 97,085 64,566	
All other products, custom work, etc	-	305,923	-	232,132	73,791
TOTAL	_	5,434,555	-	5,354,104	80,451

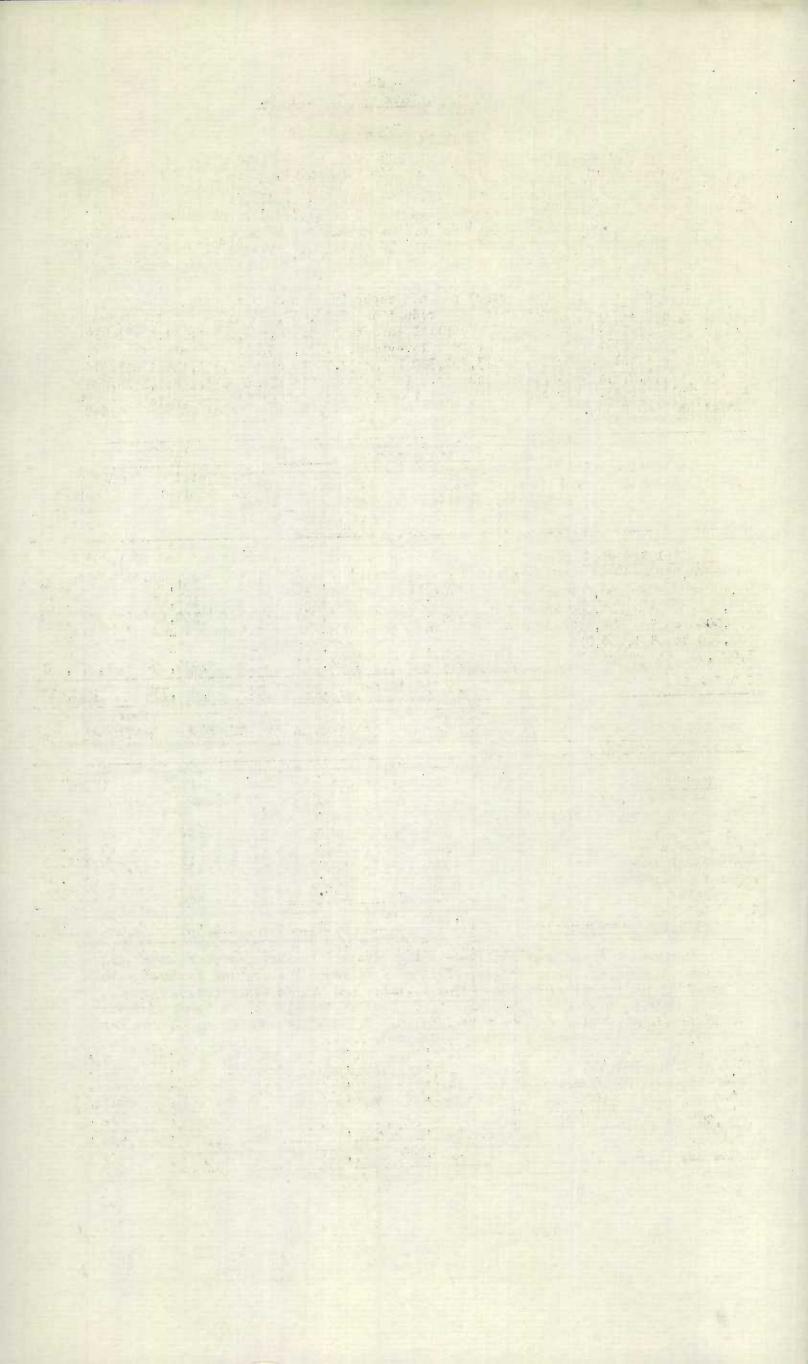


#### Size of Establishments

In 1928 the number of establishments reporting was 22 with a total capital investment of \$5,072,610,- a gross value of production of \$5,009,240 and a total employment of 1,137. Three establishments had a capital investment of \$5,616,067 or 92.5 per cent of the total capitalization and an average investment of \$1,872,022 per establishment. Four firms had a total production of \$4,624,238, being 92.3 per cent of the total output and an average of \$1,156,059 per establishment. In employment 4 firms reported 977 persons on the payrolls or 85.9 per cent of the total employment, with an average employment per establishment of 244.

In 1929 the number of establishments reporting was 22 with a total capital investment of \$6,446,734,- a gross value of production of \$5,434,555 and a total employment of 1,293. Three establishments had a capital investment of \$5,920,894 or 91.9 per cent of the total capitalization and an average investment of \$1,973,631 per establishment. Two firms had a total production of \$3,951,320 being 72.7 per cent of the total output and an average of \$1,975,560 per establishment. In employment 3 firms reported 1,078 persons on the payrolls or 83.4 per cent of the total employment with an average employment per establishment of 359.

		1928			1929	
	Estab- lish- ments	Total Capital	Average Capital per estab- lishment		Total Capital	Average Capital per estab- lishment
Capital Invested Under 50,000 50,000 to under 100,000 100,000 to " 200,000 200,000 to " 500,000 500,000 to " 1,000,000 1,000,000 and over TOTAL	No.  16 2 1 - 1. 2 22 22 Estab-	139,571 150,536 166,436 998,221 4,617,846 6,072,610	\$,723 75,268 166,436 998,221 2,308,923 276,028	No.  16 2 1 - 3 22 Estab-	\$ 151,427 184,430 189,983 5,920,894 6,446,734 Total	0,464 02,215 189,083 1,973,631 293,033 Average
	lish- ments	Employees	Employees	lish- ments	Employees	Employees
Employees Under 20 20 to under 50 50 to under 100 100 to under 200 200 to under 500 500 and over	16 2 1 1 1	No. 96 64 64 108 265 540	Mo. 6.0 32.0 64.0 108.0 265.0 54 <b>0.</b> 0	No.  16 2 1 1 1	84 69 62 178 305 595	No.  5.25 34.50 62.00 178.00 305.00 595.00
TOTAL	22	1,137	51.7	22	1,293	58.80
	Jstab- lish- ments	Total Value of Produc- tion	Average Value	Estab- lish- ments	Total Value of Production	Average Value
Production	To.	\$	\$	No.	\$	\$
Under 50,000 50,000 to under 100,000 100,000 to under 200,000 200,000 to under 500,000 500,000 to under 1,000,000 1,000,000 and over	16 1 1 2 -	159,989 53,482 141,531 685,994 3,938,244	53,482 141,531 342,997	15 2 1 1 1 2	129,231 114,609 145,346 227,000 867,049 3,251,320	8,615 57,305 145,346 227,000 867,049 1,975,660
TOTAL	22	5,009,240	227,693	22	5,434,555	247,025



#### Capital Investment

The capital investment in the carpet, mat and rug industry is shown by items and provinces in Table 2. The value of invested capital increased over 1928 by \$374,124 or nearly 5.16 per cent. Ontario's proportion of the total investment was approximately 99 per cent.

Table 2. - Capital Invested by Provinces, 1929.

Itoms of Capital	CANADA	ONTARIO	Other Provinces
	\$		\$
Fixed Capital - Land, buildings, fixtures, machinery, etc. Working Capital -	2,530,165	2,501,646	37,519
Materials, supplies and stocks in hand, etc.  Cash, trading and operating accounts, etc.	1,570,486 2,337,083		17,348 15,532
TOTAL CAPITAL	6,446,734	6,376,335	70,399

#### Employment Statistics

Statistics relating to employment are shown in the following series of tables for the calendar year 1929:-

- (3) Employees, salaries and wages by provinces.
  (4) Employment by months.
- (5) Working time of plants and employees.

The province of Ontario gave employment to 1,259 persons in a total of 1,293 for the Dominion or approximately 97.4 per cent, while the amount paid for salaries and wages was 97.7 per cent of the total for the Dominion.

The average number of wage-earners employed in any industry is calculated on the actual number of months the mills were in operation and not on a basis of 12 calendar months.

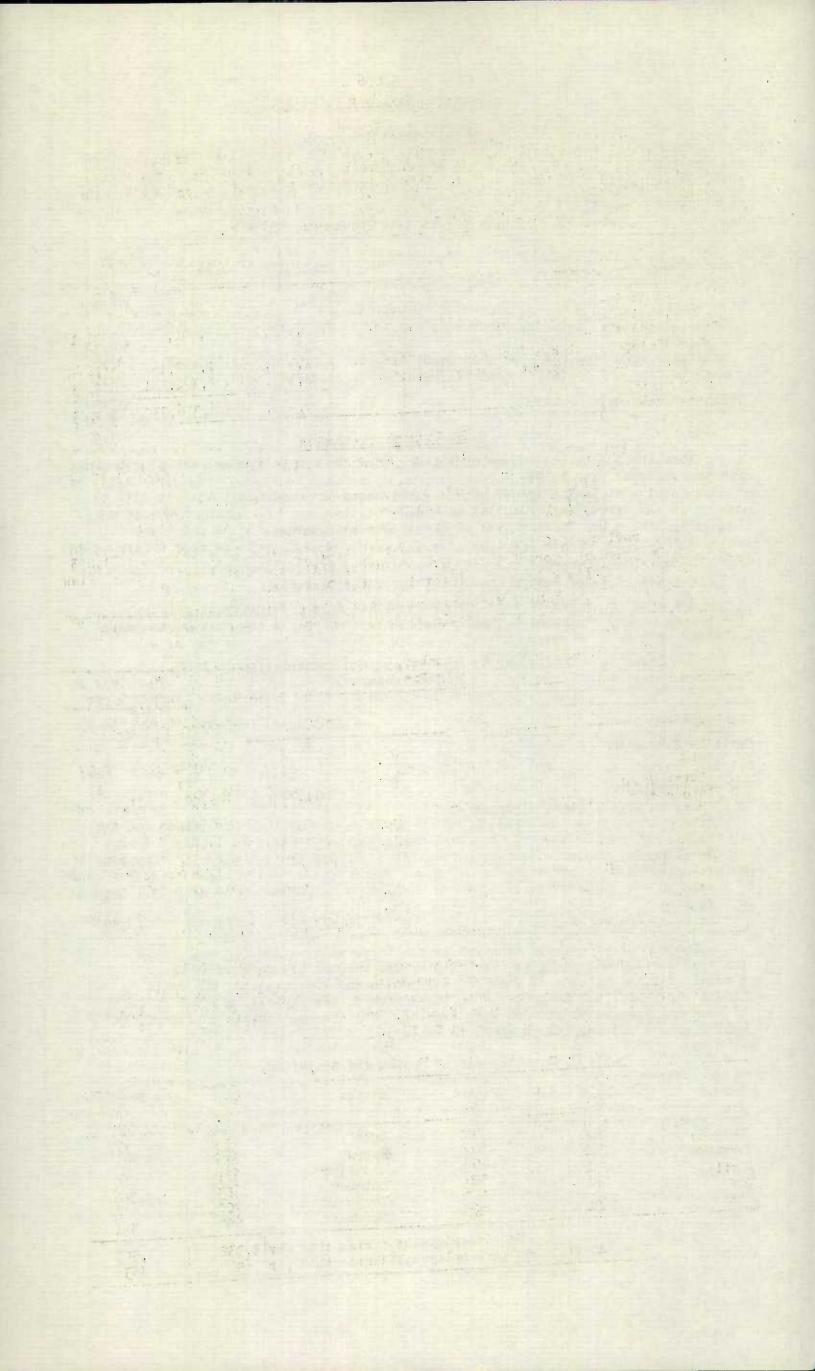
Table 3. - Employment by number, sex and remuneration in 1929, by Provinces.

Employees by classes		CANADA	ONTARIO	Other Provinces			
Employees on salaries							
Male	No.	172	164	8			
Female	NO.	42	7+1	1			
Total Salaries	\$	461,360	446,905	14,455			
Employees on wages, average number -							
Male	No.	696	684	12			
Female	No.	383	370	13			
Total wages	.\$	1,002,325	982,691	19,634			
Total employees -							
Male	No.	368	848	20			
Female	No.	425	411	14			
Salaries and wages	\$	1,463,665	1,429,596	34,089			

The number of persons employed in the industry is shown for each month of the year divided according to sex. Employment reached its maximum in March with a total of 1,136 persons of whom 727 were males and 409 females. The month of lowest employment was September when there were on the payroll a total of 1,021 of whom 661 were males and 360 were females. The average monthly employment was 696 males and 383 females as shown in Table 4.

Table 4. - Employment by Months and Sex, 1929.

Months	Male No.	Female Mo.	Months	Male No.	Female No.
January February March April Tay June	709 726 727 697 693 691	409 399 409 380 363 3 <b>6</b> 7	July August September October Yovember December	679 676 661 683 700 690	362 361 360 366 388 391
	Average		ment during the y		4,555 383



## \_ 2.7 \_ Carpets, Mats and Rugs, 1929

#### Employment Statistics - Cont'd.

Operating time of plants and of employees is given in Table 5. The operating time is shown under 3 heads: (1) full time, (2) part time and (3) idle. The average per plant of full time operation dropped to 249.18 days during the year, while part time operation was 31.73 and idle time 23.09 days. Weekly working hours of employees show a decrease from 48.59 hours in 1928 to 47.91 hours in 1929.

Table 5. - Operating time of Plants and Employees, 1929.

Number of Establishments reporting	22		
	otal	Average	
Days in operation - On full time On part time Idle	5,482 698 508	249.18 31.73 23.09	
Hours worked by wage-earners - Per day or shift Per week	191 1,054	8.68 47.91	

Table 6 presents statistics of wage-earning employees in month of highest employment working specified hours per day for Canada and the provinces with percentages of persons working at each specified daily rate. From the table following it will be noted that the prevailing daily rate for the Dominion was that of the group of wage-earners working 9 and 10 hours per day, the percentages being 39.66 and 50.90 respectively. The next in order was the 8 hour group with 5.41 per cent whilst in the group working more than 10 hours the percentage was 4.03.

Table 5. - Hours worked per day by wage-earners in month of highest employment for Canada and the Provinces, 1929.

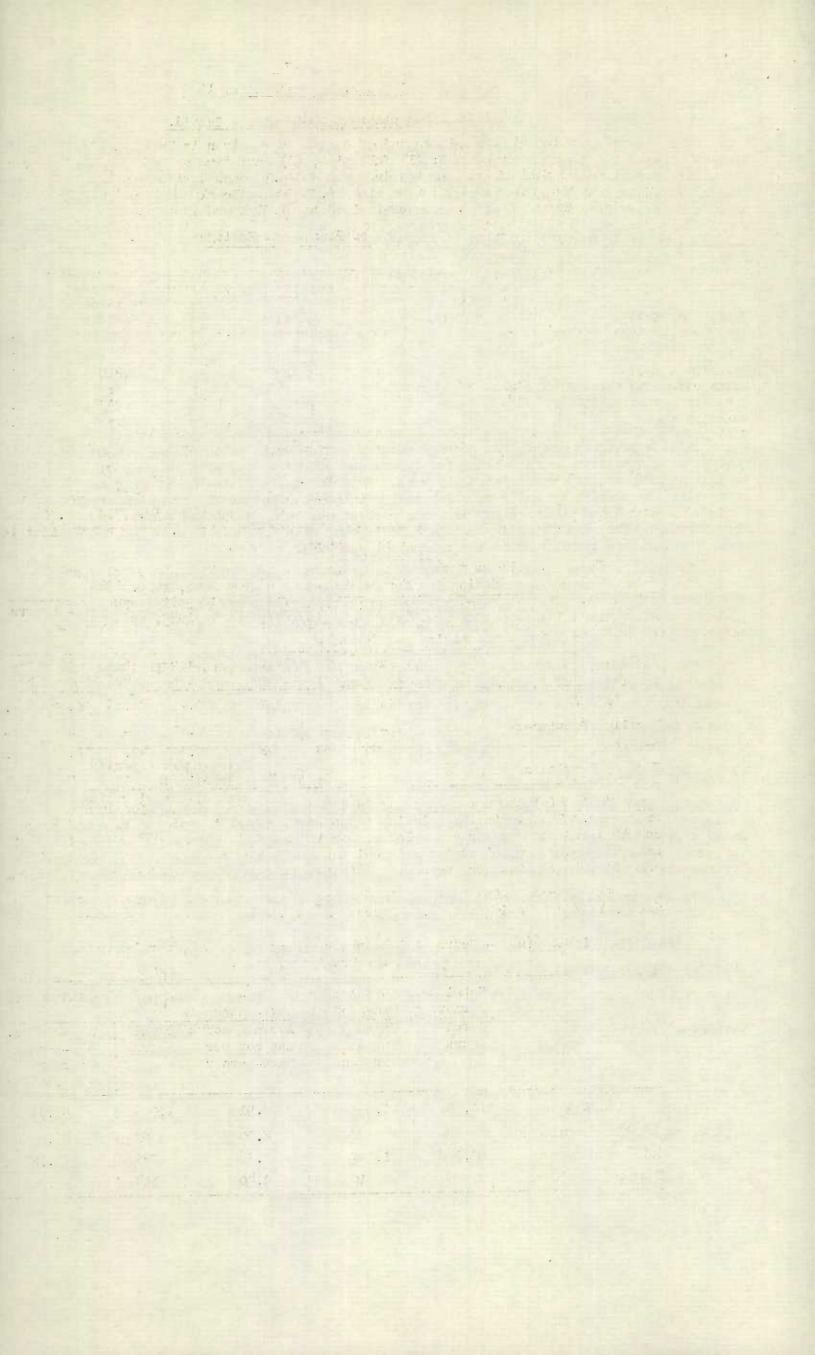
employment for Canada and the Provinces, 1929.								
	Number of wage-earners in month of highest employment working per day of -				Percentage of wage-earners working per day of -			ners
Provinces	8 hours	- 1	10 hours	Over 10 hours	8 hours or less			Over 10 hours
CANADA	63	462	593	47	5.41	39.66	50.90	4.03
Maritime Provinces	28	-			100.00	-	-	-
Ontario	29	458	593	47	2.57	40.54	52.52	4.17
Western Provinces	6	4	-	-	60.00	40.00	-	↔

Table 6(a) shows the hours of labour per day and per week for Canada and the provinces. The statistics relating to hours of labour in columns 1, 2 and 3 are compiled from the number of employees working specified hours per day in the month of highest employment whilst those in columns 4 and 5 represent the standard weekly hours of labour in the industry as reported to the Bureau by each individual establishment.

The average daily hours of labour computed on the above basis for the Dominion was 3.51 hours per day and 47.91 hours per week.

Table 6(a). - Hours of Labour per day and per week, for Canada and the Provinces, 1929.

			of wage- ghest employment		
Provinces	Total Hours	Total wage- earners	Average hours per day per wage-earner	Total Fours	Average hrs. per wage-earner per week per establishment
CAMADA	11,036	1,165	9.51	1,054	47.91
Maritime Provinces	224	28	8.00	92	46.00
Ontario	10,773	1,127	3.56	778	48.62
Western Provinces	84	10	8.40	184	45.00



### Carpets, Mats and Rugs, 1929.

#### Fuel Consumption

The quantity and value of fuel consumed by the industry in 1929 is shown in Table 7 by classes. Compared with 1928 there was an increase in the total cost of fuel which is mainly accounted for by the greater quantity of bituminous coal reported. The cost of electricity purchased amounted to \$20,741 in 1929 as compared with \$18,538 in 1928:

Table 7. - Fuel Consumption by classes, 1929.

		the state of the s	
Classes of fuel	Unit of Measure	Quantity	Cost value at Factory
			\$
Bituminous coal Anthracite coal Coke Gasoline Fuel oils Gas, artificial and many All other fuels Electricity	ton " gallon " matural m.c.ft.	11,287 43 18 202 8,617 598	66,210 565 233 56 974 560 371 20,741
Total Cost of Fuel		-	89,710

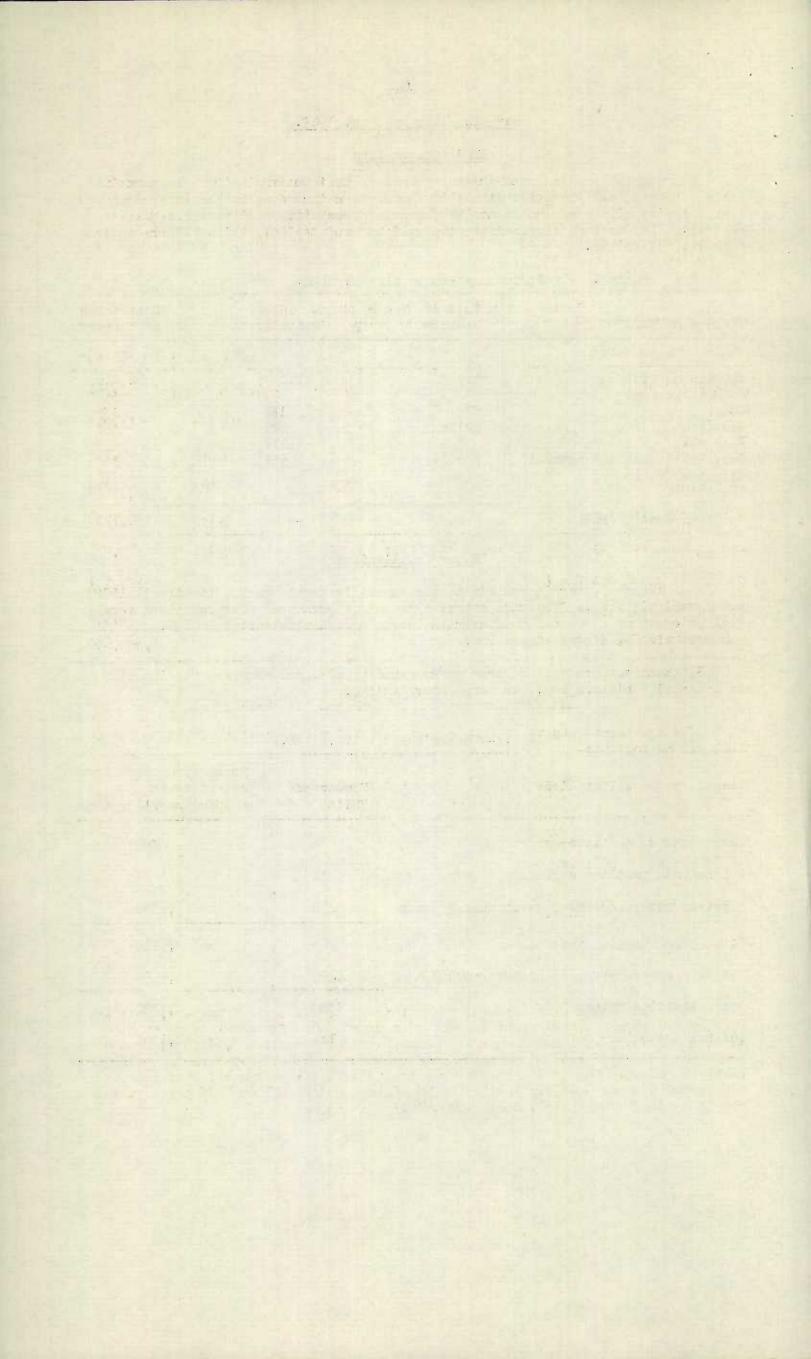
#### Power Installation

The kinds of power installed in the carpet factories of the Dominion in 1929 are shown in Table 3. Electric motors operated by purchased power supplied over 77.1 per cent of the total manufacturing horse power installation in 1929, as compared with 75.8 per cent in 1923.

Sixteen boilers with a horse power capacity of 2,368 were reported in 1929 as against 15 boilers of 2,616 horse power in 1923.

Table S. - Power Installation, 1929.

Classes of Power Installed	Tumber of Units	Horse power capacity according to manufacturers' rating	
Steam engines and turbines	<u> </u>	482	
Oil gas and gasoline engines	1	3	
Electric motors operated by purchased power	260	1,630	
Total power used in manufacture	265	2,115	
Electric motors operated by power owned	125	1,250	
Motal electric motors	385	2,880	
Boilers installed	16	2,368	



#### Carpets, Mats and Rugs, 1929

#### Materials Used

The principal materials used in the industry in 1929 are shown by quantity and cost value in Table 9. The total value of materials used amounted to \$2,559,630 of which woollen and worsted yarns constituted \$1,660,333 or 64.9 per cent. This value represents an increase from the 1928 report of \$150,742 or approximately 10 per cent.

Table 9. - Materials Used by Kinds, 1929.

	-V				
Yinds of materials used	Unit of Measure	Quantity	Cost Value		
Woollen yarns	pounds	1,973,156	1,147,321		
Worsted yarns	11	696,134	513,012		
Cotton yarns	17	1,299,884	440,715		
Linen yarns	88	962	245		
Artificial silk yarns	11	3,188	2,734		
Jute, ramie and other yarn of vegetable fibre	11	2,115,972	289,526		
Chemicals and dyestuffs (value only)	_		104,131		
All other materials (value only)	_		61,996		
Total Cost of Materials	_		2,559,680		

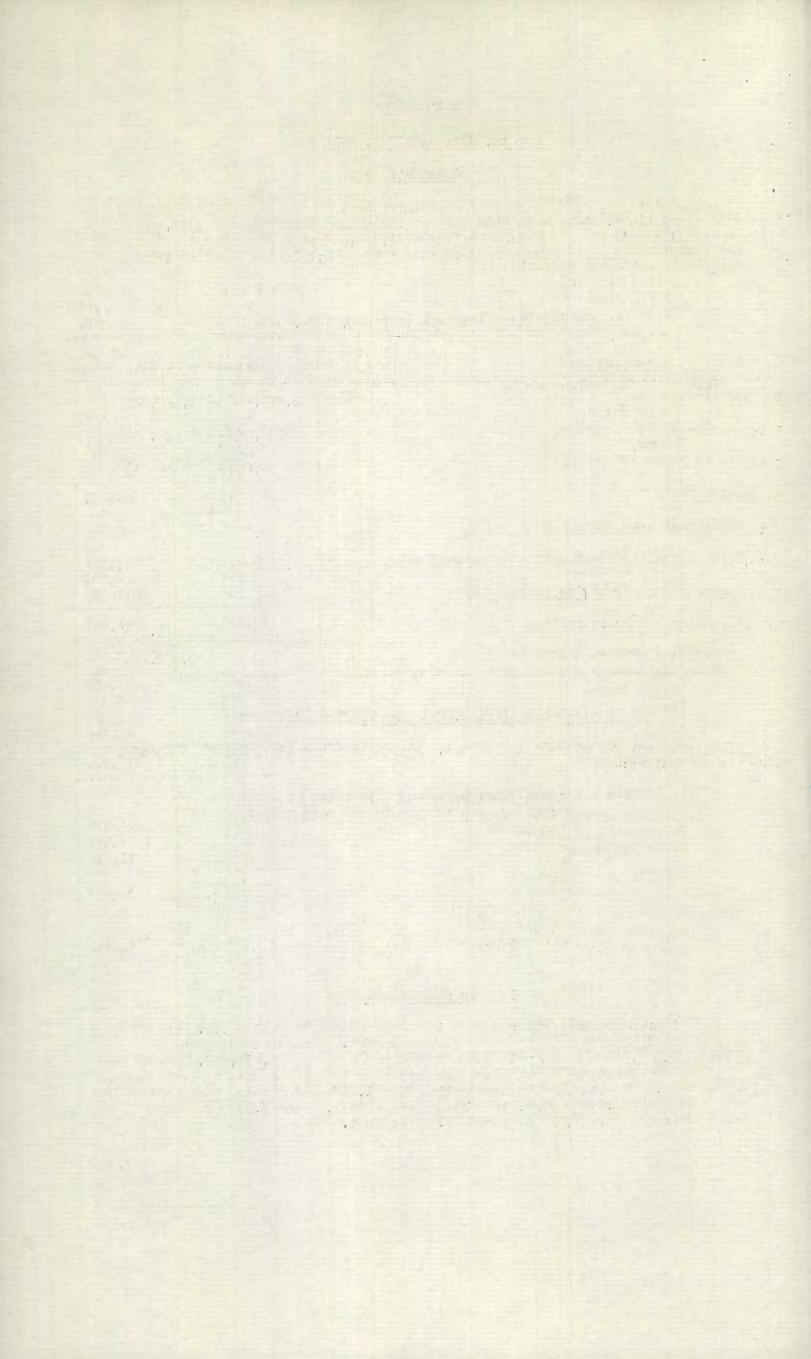
#### Equipment in Carpet, Mat and Rug Factories

The equipment reported in the carpet, mat and rug factories of the Dominion in 1-29 was as follows:-

Broad Looms (50 inches reed space or over)  Barrow Looms (under 50 inches reed space)	45 325
Other Looms	14
Coppers	4
Winders	3
Twisters	4
Braiders	3
Ynitting machines	30
Sewing machines	11
Cutting machines	2

#### Imports and Exports

Table 10 presents statistics of the imports and exports of Carbets, mats and rugs by principal countries for the calendar year 1929. The total value of imports was \$3,377,331 and the value of manufactured products \$5,434,555, so that for every dollar of product manufactured in Canada we import goods to the value of sixty-two cents. The United Zingdom supplied \$1,501,713 of the value of imports for consumption or 44.4 per cent, the United States \$279,103 or \$.27 per cent and all Other Countries \$1,596,515 or about 47.33 per cent.



# Carpets, Mats and Rugs, 1929

Table 10. - Imports of Carpets, Mats and Rugs by Principal Countries for Calendar year 1929.

Articles		Quantity	Value
			\$
Carpets, Axminster in rolls	Yd.		į.
United Kingdom	10.4	76,937	185,796
United States		1,306	3,913
Other Countries		11,227	19,289
TOTAL		39,470	208,398
Carpets, Axminster in squares	No.		
United Kingdom		9,479	293,586
United States		427	12,356
Germany Other Countries		1,836	33,914
Other Countries		3,919	
TOTAL		15,661	389,631
Carpets, Brussels and Wilton in rolls	Yd.		
United Kingdom		18,154	37,621
United States		734	2,063
Other Countries		705	1,987
COTAL		19,593	41,571
Carpets, Erussels, Wilton in squares	No.		No man
United Kingdom		5,360	157,480
United States		179	8,888
France Other Countries		1,734	7,965 41,748
TOTAL		7,660	216,031
Carpets, Ingrain 2 & 3 ply in rolls	Yd.		
United Kingdom		12,185	15,211
United States		17,171	6,35
Other Countries		14,993	18,411
TOTAL		1,14,349	39,978
Carpets, Ingrain 2 % 3 ply in squares	No.		i.
United Kingdom		1,754	36,237
United States		2,814	13,902
France		3,654	48,506
Other Countries		1,874	23,649
TOTAL		10,096	122,290
Carpets, oriental and hand woven in square	es No.		
United Kingdom		5,458	394,899
United States			151,736
British India		921	128,47
China		858	54,86
Persia		3,445	214,15
Turkey		6,250	262,405
Greece		3,064	204,590
Other Countries			61,10
TOTAL		23,155	1,172,228

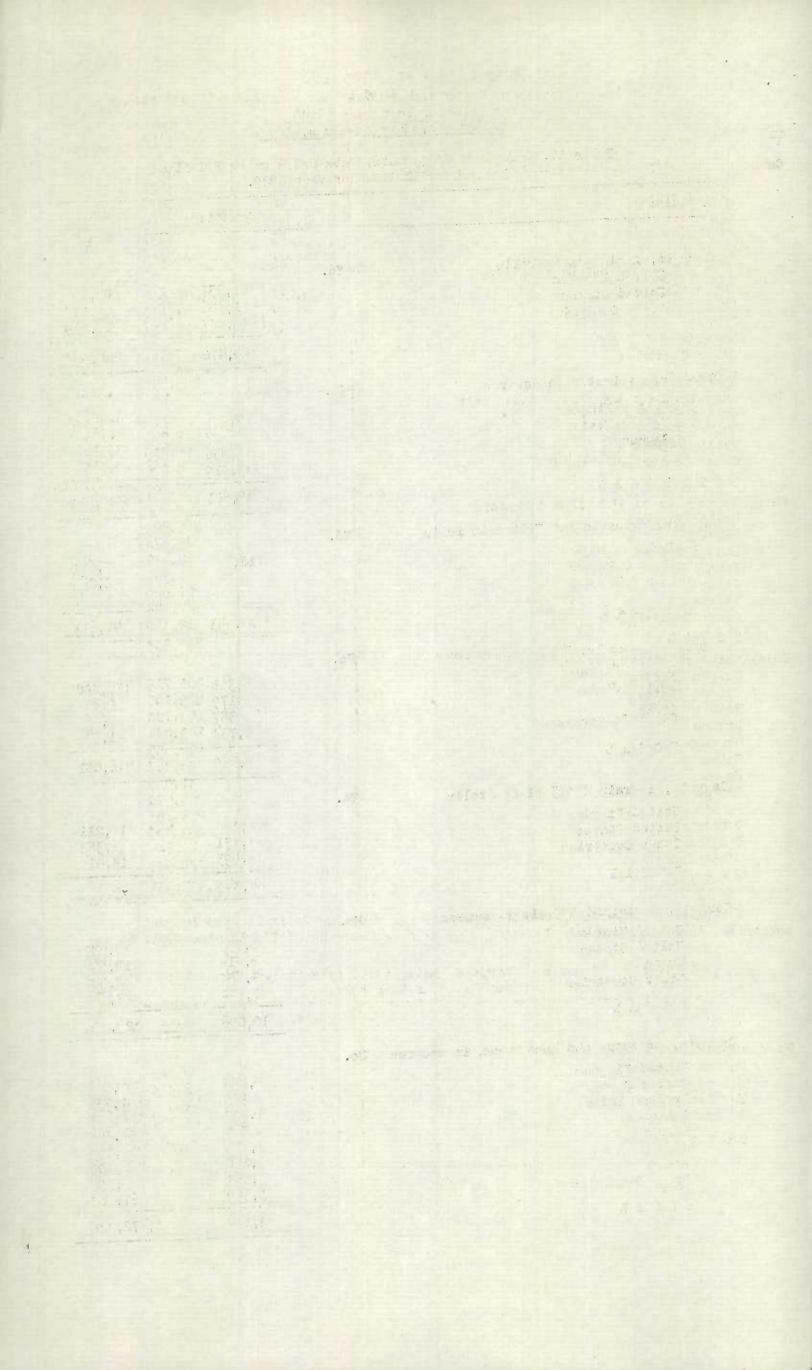


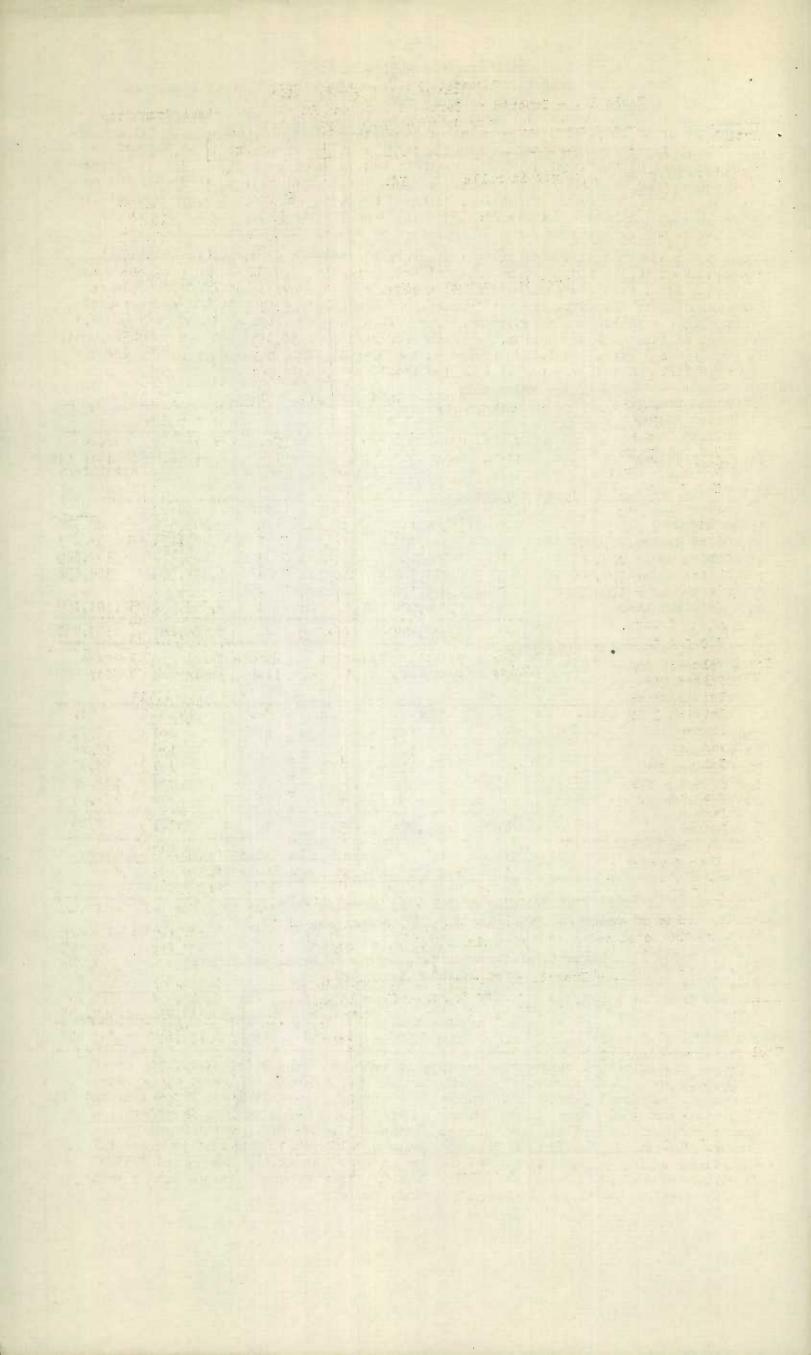
Table 10. - Imports of Carpets, Mats and Rugs by Principal Countries for Calendar Year 1929 (Cont'd.).

for Calendar Year 1929 (Cont'd.).							
Articles		Quantity	Value				
			\$				
Carpets, tapestry and velvet in rolls United Kingdom United States France Other Countries	Yd.	61,377 9,842 21,991 721	64,104 10,079 21,189 1,537				
T O T A L		93,931	96,909				
Carpets, tapestry and velvet in squares United Kingdom United States France Germany Other Countries TOTAL	No.	3,017 89 2,359 121 2,068 7,654	50,610 1,230 35,456 2,207 13,832				
Cocoa carpets, mats and rugs - value only United Kingdom United States British India Other Countries TOTAL			574 2,953 25,315 4,865 33,707				
Mats and rugs up to 3' x 6' and runners United Kingdom Germany United States France Japan Belgium Other Countries T O T A L			265,595 25,378 65,630 71,381 87,525 47,644 89,350				
Total value of imports by countries - United Kingdom United States British India France Germany China Japan Greece Fersia Turkey 3elgium Other Countries T O T A L			1,501,713 279,103 153,788 149,041 96,955 54,867 87,525 204,590 214,155 262,405 47,644 325,545 3,377,331				

The value of exports of Canadian produce are shown in Table 11 by principal countries, the total value in 1929 being \$75,198, a decrease of \$7,634 over 1928.

Table 11. - Exports of Carpets, Mats, etc., to Principal Countries for Calendar Year 1929.

	Quantity	Value
Wool carpets (value only)		\$
United Kingdom United States New Zealand		2.749 6,373 42,817
Other Countries		23,259
TOTAL	-	75,198



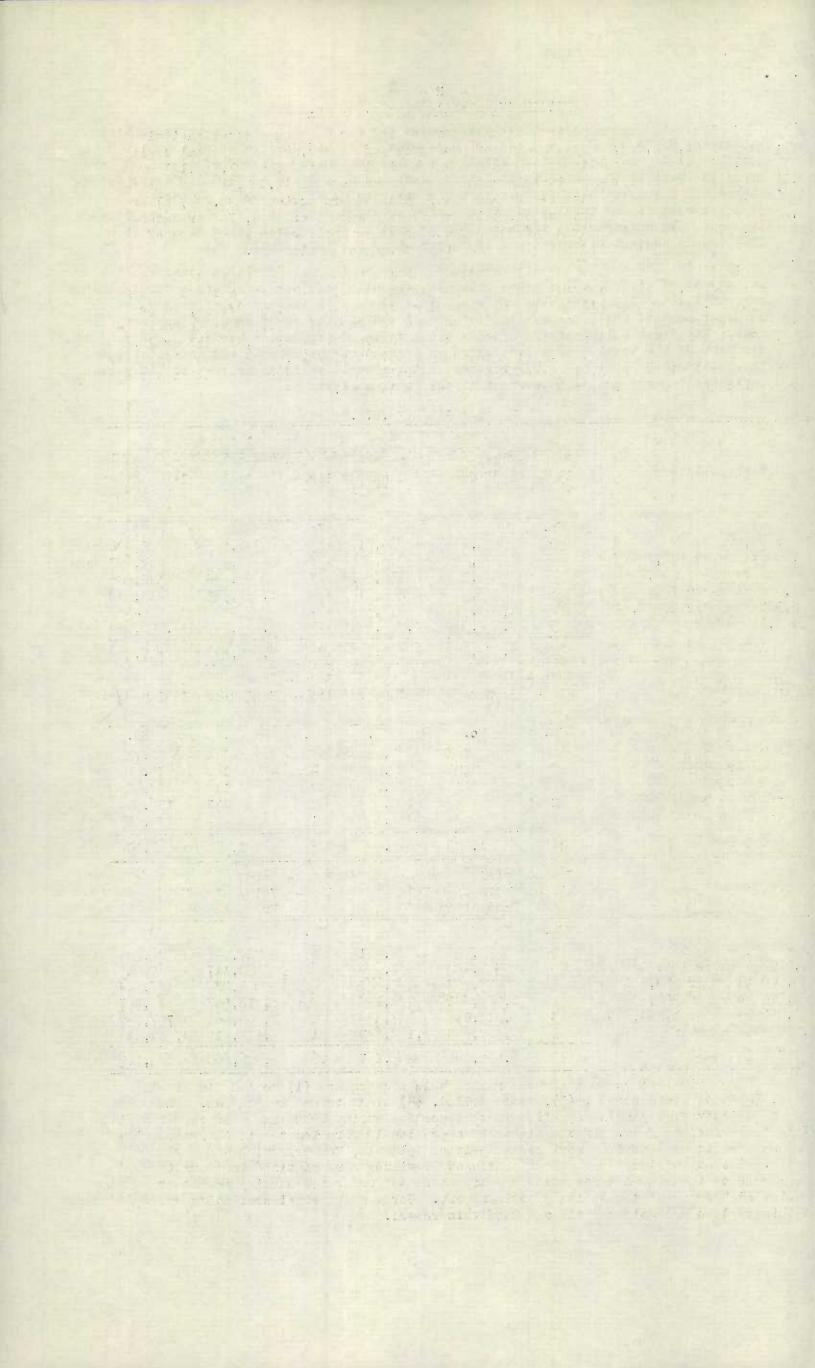
In 1929 the number of establishments reporting was 25 with a total capital investment of \$8,580,289, a gross value of production of \$6,476,608 and a total employment of 1,141. Seven establishments had a total capital investment of \$7,562,127 or 87.12 per cent of the total capital investment and an average of \$1,080,304 per establishment. Seven establishments reported a gross value of production of \$5,324,867 or 82.2 per cent of the total production, being an average output of \$760,674 per establishment. In employment 9 firms had 993 persons on the payroll being an average of 110 persons per establishment and 87 per cent of the total employment.

In 1928 the number of establishments reporting was 27 with a total capital investment of \$8,375,122, a gross value of production of \$6,909,229 and a total employment of 1,225. Eight establishments had a total capital investment of \$7,219,524 or 86.2 per cent of the total capital investment and an average of \$902,440 per establishment. Eight establishments reported a gross value of production of \$5,483,257 or 79.3 per cent of the total production, being an average output of \$685,407 per establishment. In employment 9 firms had 1,072 persons on the payroll being an average of 119 persons per establishment and 87.5 per cent of the total employment.

Woollen Goods, n.e.s.

	Woollen Goods, n.e.s.									
		1928		!	1929					
Capital Invested	Estab- lish- ments	Total Capital	Average Capital per establish- ment	Estab- lish- ments	Total Capital	Average Capital per establish- ment				
Under 50,000 50,000 to under 100,000 100,000 to under 200,000 200,000 to under 500,000 500,000 to under 1,000,000 1,000,000 and over	No. 9 6 4 3 2	\$ 198,149 399,283 558,166 778,842 1,085,778 5,354,904	\$ 22,017 66,547 139,541 259,614 542,889 1,784,968	No. 9 7 3 4 -	\$ 200,953 473,735 443,474 1,258,529 6,303,598	22,328 67,677 147,825 314,632 2,101,199				
FOIAL	27	8,375,122	310,189	26	8,680,289	333,857				
Employees	Estab- lish- ments	Total Employees	Average Employees	Estab- lish- ments	Total Employees	Average Employees				
Under 20 20 to under 50 50 to under 100 100 to under 200 200 to under 500	No. 18 3 2 2	No. 153 108 114 266 584	%.5 36.0 57.0 133.0 292.0	No. 17 4 2 2	No. 148 129 117 273 474	No. 8.71 32.25 58.50 136.50 474.00				
mom A t	27	1,225	45.4	26	1,141	43.90				
Production		Total Value of Production	Average Value	Estab- lish- ments	Total Value of Production	Average Value				
Under 50,000 50,000 to under 100,000 100,000 to under 200,000 200,000 to under 500,000 500,000 to under 1,000,000 1,000,000 and over	9 5 5 4 3 1	\$ 255,343 393,422 777,207 1,088,571 2,212,066 2,182,680 6,909,229	\$ 28,371 78,684 155,441 272,143 737.335 2,182,680 255,897	No. 9644 421	\$ 237,846 372,117 541,778 1,218,987 1,595,461 2,510,419	26,427 62,019 135,444 304,747 <b>7</b> 97,730 2,510,419				

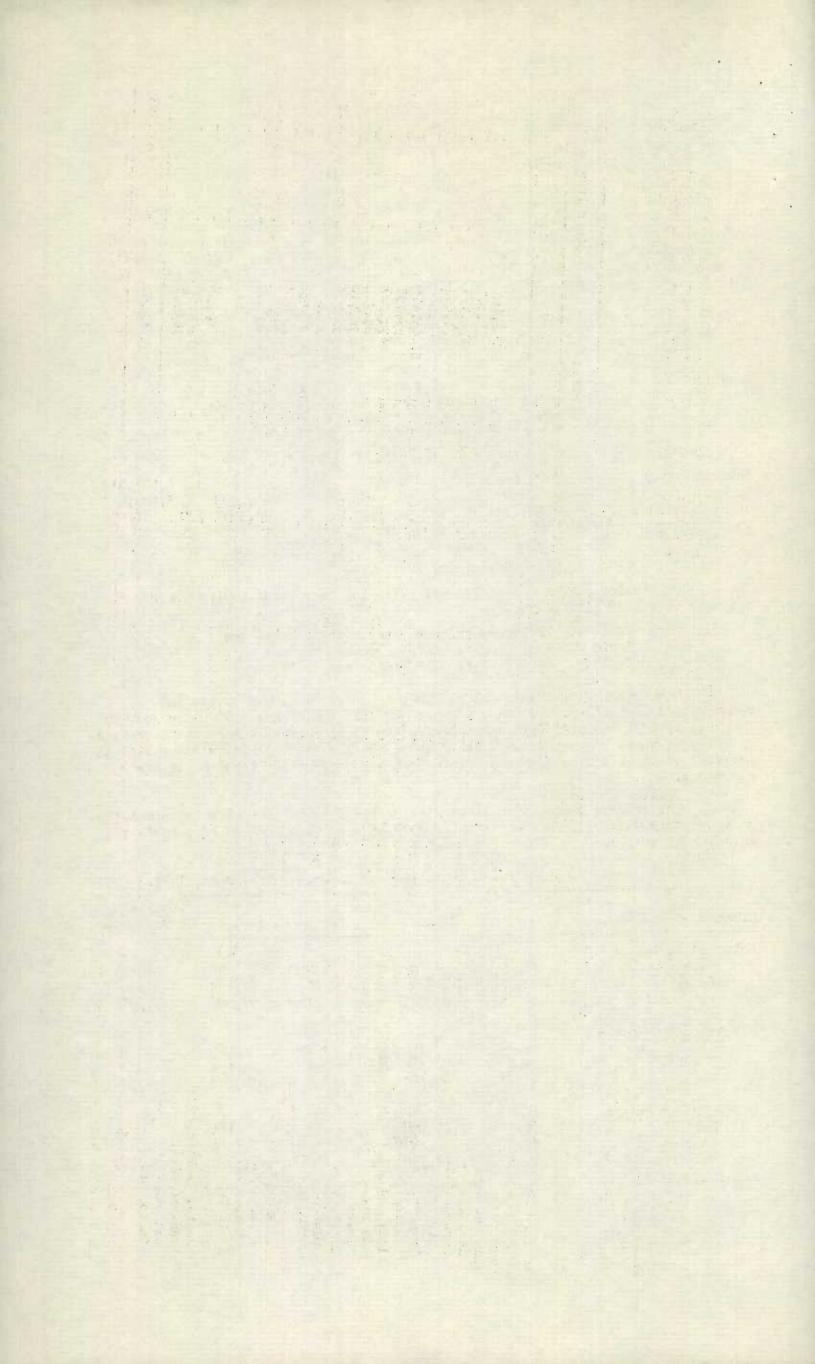
The principal commodities comprising this section are (1) wool felts of all binds, (2) wool stock shoddy, (3), wool pulled, (4) blankets and sweat pads. The number of individual plants reporting in this section during 1929 was 26 as compared with 27 in the preceding year. Of the plants in operation 19 were located in Ontario, 4 in Quebec and 1 in each of the provinces of British Columbia, New Brunswick and Nova Scotia. The statistics for the last mentioned provinces have combined to prevent disclosure of individual information and are presented under the heading of "Other Provinces" throughout the tables of this report. For the principal statistics relating to this section see column 4 of page 2 of this report.



#### Froduction, Lycy

Table 1. - Froduction in woollen Goods Mills, n. e. s., by Frovinces, 1929.

The state of the s	r out	CV	CANADA		₹ue bec		Ontario		Other Frovinces	
rticles Manufactured		Quantity	Value	Quantity	Value	quantity	Value	quantity	Vilue	
elt Goods -	and the top the spin spin or the transfer				TH'		4	The state of the Table Committee and the State of the Sta	¥	
Shoe felis	Yard	259,501	160,165	-		259,501	160,165	-	-	
harness felis	Found	125.,040	51,247			125,040	51,447	-	-	
hair felts	Yard	543,422	174,555			523,222	174,555	1 2019-11	-	
Trimming and lining felts	Yard	100,030	73,45			100,038	73,452	-	-	
Fadding felts	Yard	609,274	164,260	-	45-10-10	609,274	164,260	-	-	
Fulp and paper maker's felts	Found	2,064,990	3,493,062	2,100,754	: 2,250,306	604,236	1,243,476	-	_	
All other felt goods	Found	135,620	55,795			135,620	55,795	90	-	
Shoddy mungo and wool extract	Found	3,753,209	576,599	448,443	96,178	3,304,846	478,421	-	-	
Sweat pads	Dozen	5,436	29,422	-	- 1	5,406	29,422			
blankets	- 7	-	525,654		229,140	-	296,714			
wool, pulled	Found	016,603	297,655	45,000	14,000	465,005	172,026	306,598	111,62	
Upholstering material			62,030		1 2 3	-	62,838		-	
Insoling material	Found	46,500	17,639			46,500	17,639	UST IS	7-	
woollen yarns	Tound	6,750	1,326	-	-	6,750	1,326	-	-	
Fickled skins	Dozen	30,709	243,541	1,215	9,720	19,395	176,097	10,099	56,92	
Bath roses	Found	9,695	34,568	-	-	9,695	34,568	- 11	-	
Box toes	Fair	6,029,794	167,078	6,029,994	167,078		- 1	- 7.16	-	
batts, flocks and rolls	Found	1,252,270	46,960	1,252,270	46,960			-	17.00	
Weather strip			46,163		-		46,163		-	
All other products		MINI DE LA	1 02,501	-	34,901	HE HE	47,600		-	
Custom and repair work			163,045		-		163,048	-	-	
OTAL VALUE OF CUTFUT			6,476,608		2,850,443	_	3,457,612	_	160,55	



#### Capital Investment

The amount of capital invested in this section of the woollen textile imdustry is shown by provinces in Table 2. It is also presented under two heads:-Fixed Capital and working capital, the first of which includes land, buildings, fixtures, machinery and tools, and the second materials and stocks on hand, fuel and miscellaneous supplies on hand, and cash, trading and operating accounts, and bills receivable. The investment in 1929 shows an increase in total of \$305,167. Approximately 52.9 per cent of the total investment is credited to the province of Ontario, 45.2 per cent to Quebec and 1.9 per cent to the other provinces.

Table 2. - Capital Investment by Provinces, 1929.

	Fixed Capital Working Capital				
Province	Land, Buildings machinery tools	Materials and supplies on hand	Cash, trading and operating accounts, etc.	Total Canital	
CAMADA	\$,900,889	\$ 1,648,016	1,131,384	\$,580,289	
Ontario Quebec Other Provinces 1/	2,824,002 3,040,774 36,113	886,457 670,068 91,491	887,260 209,770 34,354	4,597,719 3,920,612 161,958	

1/ Includes Nova Scotia, New Brunswick and British Columbia.

## Employment Statistics

Statistics of employment are presented in a series of Tables for the colendar year 1029 as follows:-

Employees by number, sex and remuneration Table 3. Table 4.

Employees by months and sex

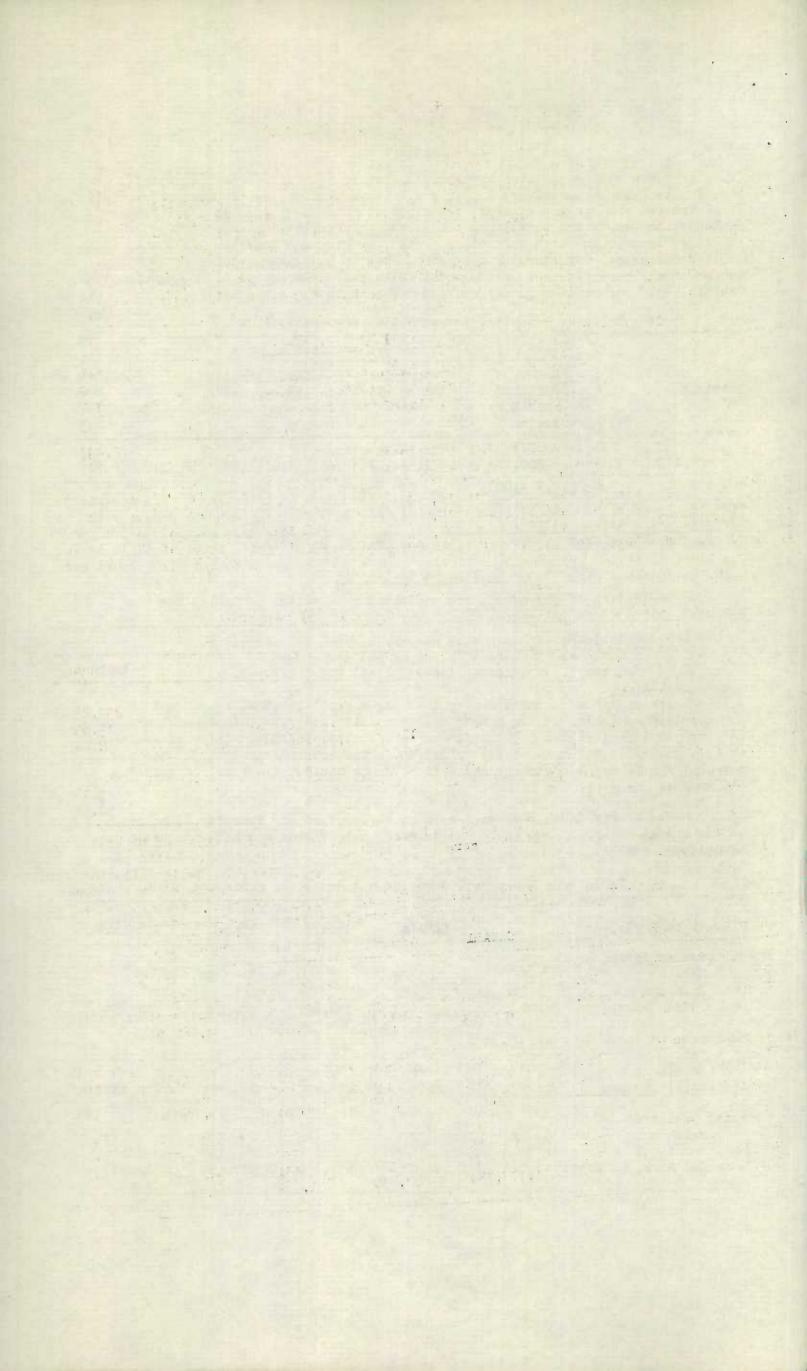
Table 5. Operating time of plants and employees.

The number of persons employed as per payroll is shown by sex and remuneration in Table 3. The number employed fell from 1,225, (800 males and 425 females) in 1928 to 1,141 (876 males and 265 females) in 1929. Salaries decreased by \$51,795, while wages increased by \$23,496. The province of Onturio supplied 51 per cent of the total employees and paid 56.2 per cent of the total of salaries and wages.

The average number of wage-earners employed in any industry is calculated on the actual number of months the mills were in operation and not on a basis of 12 calendar months.

Table 3. - Employees, Salaries and Wages, by Provinces, 1929.

		es, bararies		7	
Classes of Employees		CANADA	Ontario	Quebec	Other Provinces
Salaried employees - Male Female Total Salaries	No.	82 22 277,973	50 19 176,627	29 3 97,086	3 4,260
Employees on wages Male Female Total Wages	70. 50.	79 <sup>4</sup> 243 900,765	398 115 485,803	366 128 394,578	30 - 20,384
Total Employees - Male Female Salaries and Wages	No. \$	876 265 1,178,738	448 134 662,430	395 131 491,664	33 24,644



#### Employment Statistics - Cont'a.

The number of wage-earners employed in this section by months and sex is shown in Table 4. Employment was at the maximum in the month of November when 1,093 individuals were entered on the payroll and the minimum in the month of April when the number on the payroll was 975. The average monthly employment during the year was 1,037 of whom 794 were males and 243 were females.

Table 4. - Employment of Wage-earners, by Months and Sex, 1929.

Months	Male No.	Female No.	Months	Male No.	Female No.
January February March April May June	786 <b>789</b> 762 745 747 753	248 242 220 230 234 236	July August September October November December	754 756 829 817 836 769	240 241 244 248 257 253
		yment during thly employme	the year ent throughout year	9,343	2,893

The working time of plants and employees is shown in Table 5. The operating time of plants whether on full or part time and the number of days the plants were idle are given by totals and averages. Full time operations were carried on for 252.23 days and part time for 19:69 days, whilst plants were idle for a total of 32.08 days. The hours of labour averaged 9.15 per day as against 9.04 in 1928 and 50.54 hours per week, as compared with 50.74 hours in 1928.

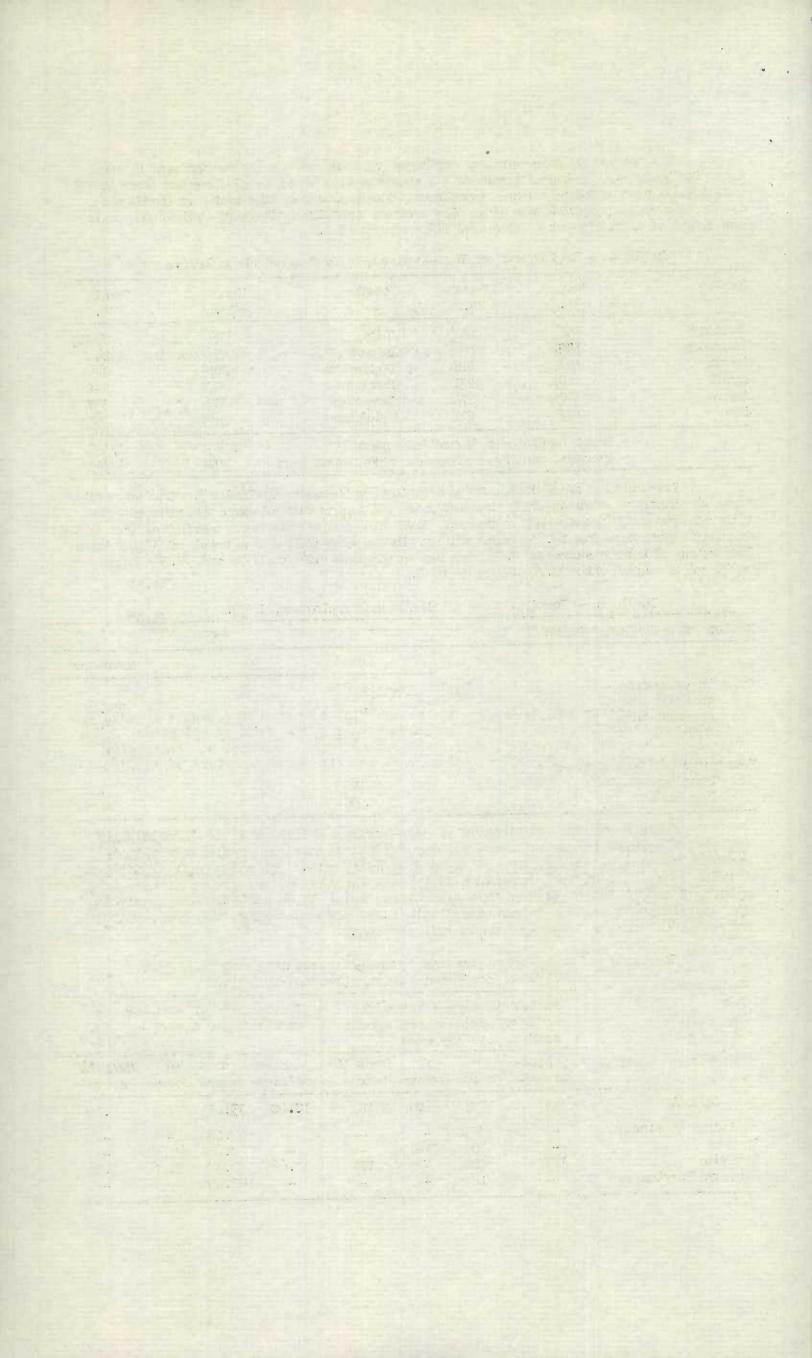
Table 5. - Working time of plants and employees, 1929.

Number of operating plants		26
	Total	Averages
Days in operation - on full time on part time Idle	6,558 512 834	252.23 19.69 32.08
Hours worked by employees - Per day or shift Per week	238 1,31 <sup>4</sup>	9.16 50.54

Table 6 presents statistics of wage-earning employees in month of highest employment working specified hours per day for Canada and the provinces with percentages of persons working at each specified daily rate. From the table following it will be noted that the prevailing daily rate was that of the groups of wage-earners working 9 and 10 hours per day, the percentages being 33.53 and 53.04 respectively. The next in order was the 8 hour group with 12.58 per cent whilst the groups working more than 10 hours aggregated less than 1 per cent.

Table 5. - Hours worked per day by wage-earners in month of highest employment for Canada and the Provinces, 1929.

	Number of wage-earners in month of highest employment working per day of -				Percentage of wage-earners working per day of -			
Province	8 hours or less		10 hours	Over 10 hours	8 hours or less		10 hours	Over 10
CANADA	1.47	392	620	10	12.58	3 <b>3.</b> 53	53.04	.85
Maritime Provinces Quebec Ontario Testern Provinces	147	23 15 340 14	544 76	10	25.66	100.00 2.68 59.34 100.00	97.32	1.7



#### Employment Statistics - Cont'd.

Table 6(a) shows the hours of labour per day and per week for Canada and the provinces. The statistics relating to hours of labour in columns 1, 2 and 3 are compiled from the number of employees working specified hours per day in the month of highest employment whilst those in columns 4 and 5 represent the standard weekly hours of labour in the industry as reported to the Bureau by each individual establishment.

The average daily hours of labour computed on the above basis for the Dominion was 1.42 hours per day and 50.54 hours per week.

Table 6(a). - Hours of Lahour per day and per week, for Canada and the Provinces, 1029.

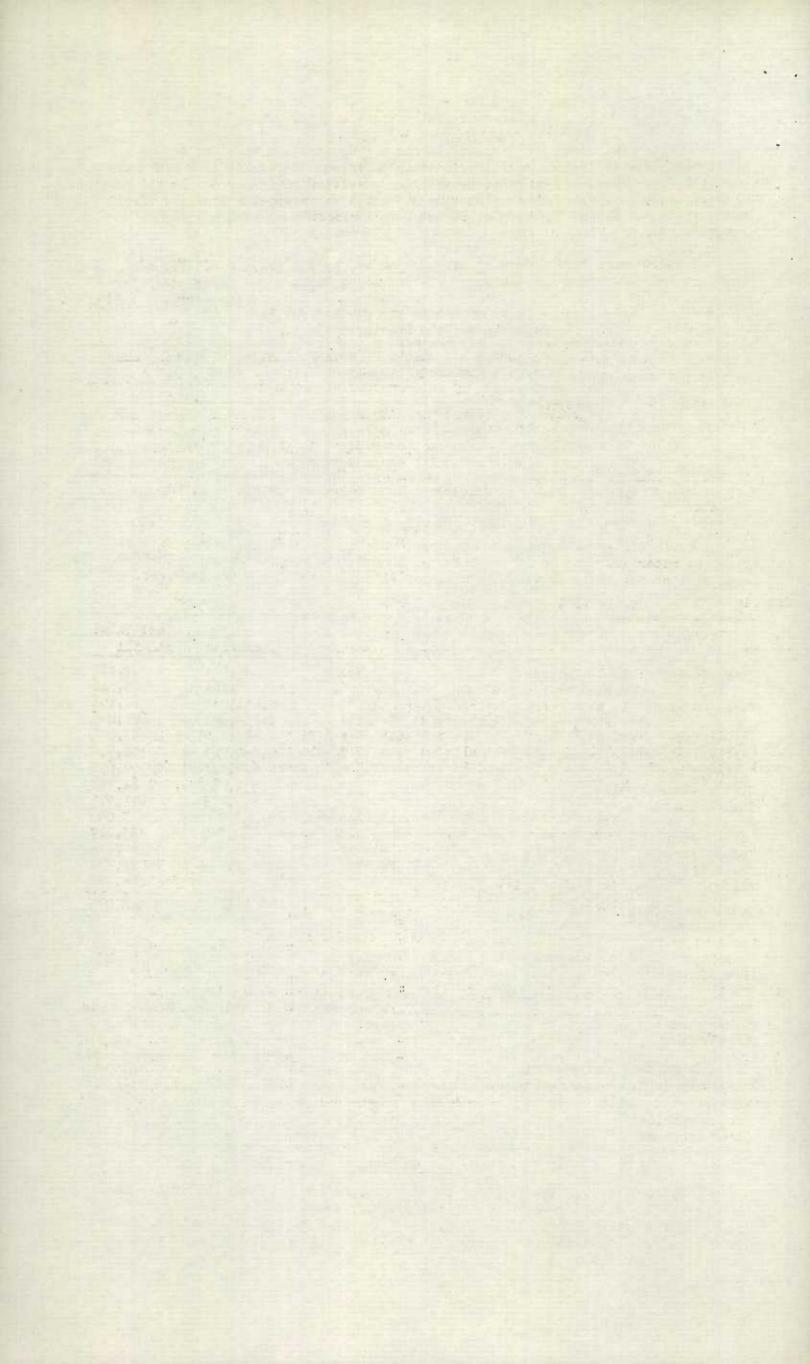
Provinces	Total hours and number of wage- earners in month of highest employment			Standard working hours per week		
	Total hours	Total Wage- earners	Average hours per day per wage-earner	Total	Average hours per wage-earner per week per establishment	
CAMADA	11,009	1,169	9.42	1,314	50.54	
Maritime Provinces	207	23	9.00	103	51.50	
Quebec	5,575	559	9.97	221	55.25	
Ontario	5,101	573	g.90	945	49.58	
Western Provinces	126	14	9.00	748	48.00	

#### Fuel Consumption

The quantity and the cost value at the mill of the fuel consumed in this section are given in Table 7. for the calendar year 1929. Coal of all binds constituted over 99 per cent of the total cost of fuel. The cost of electricity purchased amounted to \$33,529 in 1928 as compared with an expenditure of \$29,769 in 1929.

Table 7. - Fuel Consumption, by Classes, 1929.

Classes of Tuel	Unit of Measure	Quantity	Cost Value at Mill		
Bituminous Coal (incl. Screenings) Anthracite coal Lignite coal Coke Gasoline Oil (fuel) Wood Gas Other fuel Electricity	ton " " gal. " Cord M cu. ft.	11,458 3 - 8 	70,925 40 104 - 138 29,769		
Total Cost, fuel and electricity	_	well	100,976		



#### Power Installation

The installation of power by classes and horse power as rated by the manufacturer, is presented in Table 8. for the calendar year 1929. An increase, in installed h. p. capacity for manufacturing purposes, of 2,718 h. p. over 1928 will be noted which is accounted for by the increase in hydraulic turbines and electric motors.

Table 8. - Power installed in the Woollen Goods Industry, M.E.S. - 1929.

Classes of Power	Number of Units	Horse power according to manufacturers' rating 90 169 3,861 2,692 6,812		
Steam engines and turbines Oil, sas and gasoline engines Hydraulic turbines or water wheels Electric motors operated by purchased power	2 2 7 231			
Total power for manufacturing purposes	242			
Electric motors operated by power generated by the establishment	201	1,776		
Total electric motors	432	4,468		
Boiler installation	15	1,160		

### Materials Used

Table 9 gives the quantity and cost value at the mill or factory of the principal materials used in this section of the woollen textile industry in 1020. The total cost of materials shows an increase of \$146,032 over the preceding year.

Table 9. - Materials Used, 1929.

Table 4 Materials Used, 1929.				
Kind	Unit of Measure	Quantity	Cost Value at Mill	
Wool, domestic: in the grease washed or scoured	Pound	34,047 76,161	7,812 26,616	
Wool, foreign: in the grease	TT .	2,211,269	910,801	
washed, scoured and pulled	\$ f	1,133,251	621,256	
Animal hair, all kinds Tailors' clippings, rags, etc.	11	543,862	47,075 358,912	
Cotton, raw	11	505,987	94,552	
Wool waste and noils	!!	539,268	61,388	
Sheepskins Jute and other waste	Pound	368,538 150,000	481,973	
Cotton yarn	Tt .	1,362,350	453,017	
Cotton linters, waste, etc.	\$1		27,342	
Chemicals and dyestuffs (value only) All other materials (value only)	derib derib	ding.	254,982	
Total Cost of Waterials			3,348,836	

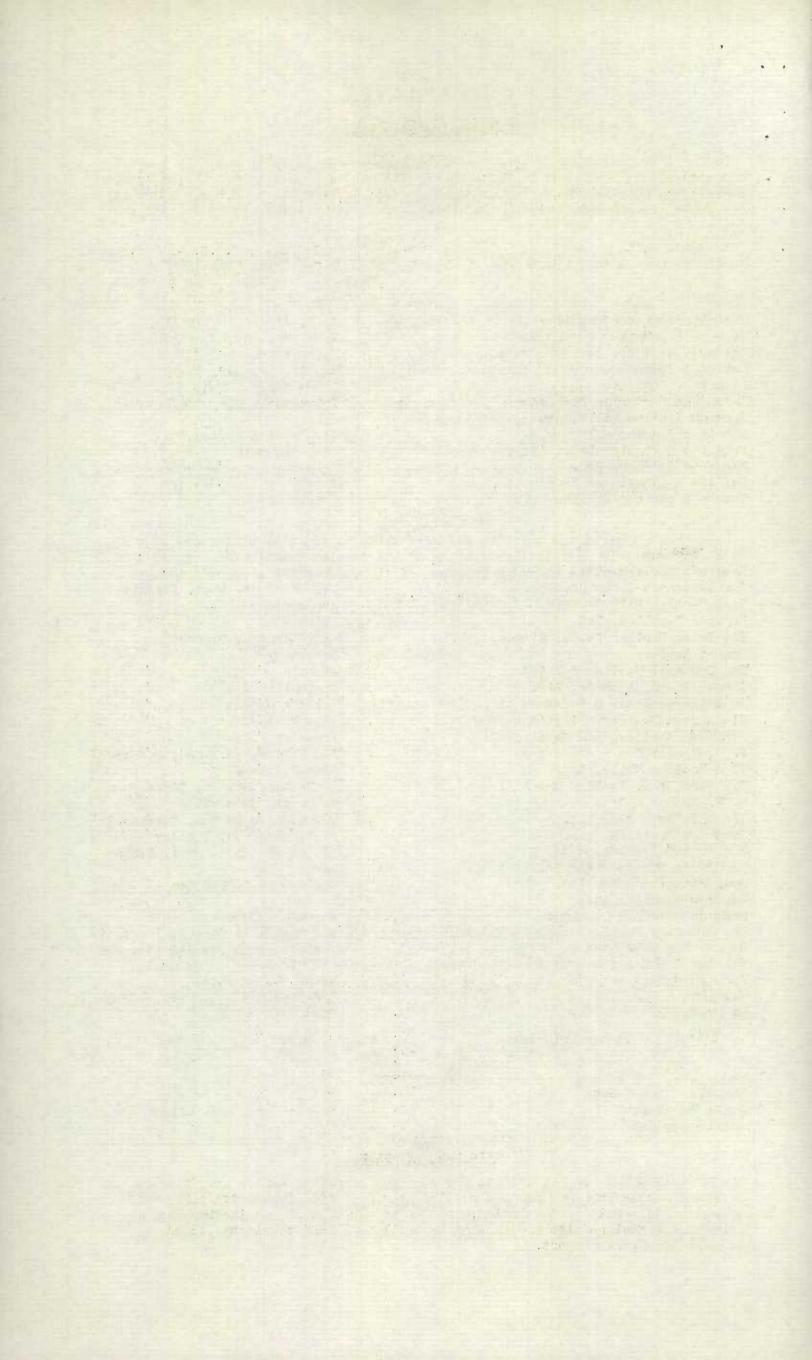
## Equipment in Textile Mills, N. E. S.

The equipment in mills for the manufacture of the various classes of goods made in this section of the woollen textile industry is presented in Table 10.

Table 10 Equipment in Woollen Textile Mills, M.E.S., 1929.					
Mind		Woollen:	Cotton	Shoddy	Total
Sets of cards	110.	41	Ţŧ	29	74
Spinales Mule spinning spindles Trame spinning spindles Doubling and trusting spindles	Mo.	6,250			6,250
		256	71	-	250
Broad looms (50 inches reed space or over)	No.	119	11	1	1 )1
Carnet machines	210.	does	_	-	6
Other machines	No.	donk	-	-	5

## Imports and Exports

Statistics relating to imports for consumption and to exports of Canadian produce for the calendar year are not sufficiently indicated in the trade classification to permit of tabulation, but the values of such are included under total imports of wool and its products on pages 11 to 15 and total exports on pages 17 and 18 of this report.



#### - 38 -APPEUDIX

#### Firms Manufacturing Woollen Cloths

#### MOVA SCOTIA

Oxford Manufacturing Co. Ltd. St. Croix Woollen Manufacturing Co. Ltd. Oxford St. Croix

#### NEW BRUNSWICK

J. A. Fumphrey & Son, Ltd.

Box 366, Moneton

#### QUESEC

Fred Blanchette (Trenholmville Woollen Mills)
Joseph Blanchette
Walter Blue & Co. Ltd.
Methot & Frere
Albert E. Morrison
Paton Manufacturing Co. Ltd.
Warwick Woollen Mills, Ltd.
Warwick Woollen Mills, Ltd.
Vapoleon Paquin
Produits Agricoles Ltd., (Eugene Gagne)
Saguenay Spinners Ltd.
Collins & Aikmain of Canada Ltd.
Thurso Flour and Woollen Mills

R. R. #1, Trenholmville.
R. E. #1, South Durham
Waterville
Cap St. Ignace
Brownsburg
7 Belvidere St., Sherbrooke
Warwick
St. Gabriel de Brandon
Metabetchouan
Chicoutimi
Farnham
Thurso

#### OMTARIO

F. E. Cleroux Bancroft Woollen Mills (D. Fuller) The Barrymore Cloth Co. Ltd. Bird Woollen Mill Co. Ltd. Tayside Textiles, Ltd.
The Brook Woollen Co. of Simcoe, Ltd. Duncan Butler The Campbell Woollen Co. Ltd. Campbellford Cloth Co. Ltd. Dominion Woollens & Worsteds Ltd. (Auburn Mills) Peterborough Flasherton Woollen Will, (John Muhn) Dominion Toollens and Worsteds Ltd. J. W. Gledhill Glen Woollen Wills, Ltd. The Forn Bros. Woollen Co. Ltd. S. B. Lehman & Sons A. Bradshaw & Son Ltd. Morthern Textiles, Ltd. The Oriental Textiles Co. Ltd. The Paris Wincey Mills Co. Ltd. Geo. Pattison & Co. Ltd. Renfrew Textiles Ltd. Rosamond Toollen Co. Ltd. The Slingsby Manufacturing Co. Ltd. Dupont Textiles Ltd.
William Thoburn (Thoburn Woollen Wills) Vickerman 3ros. Watchorn & Co. Ltd. La France Plushes Ltd.

Clarence Creek Bancroft 1179 King St. West, Toronto Bracebridge Perth Victoria St., Simcoe Strathroy Almonte Campbellford Flesherton Hespeler Ben Miller, (R.R. #4, Goderich) Glen Williams 95 William St. W., Lindsay R. R. #1, Unionville 507 College Avenue, Toronto 3 P. O. Box #405, Chesley 131 Athol Street East, Oshawa Paris Eagle Street, Preston Renfrew Almonte 266 West Mill Street, Brantford Christie & Tupont Streets, Toronto 4 Almonte R. R. #1, Preston Merrickville Woodstock

## Firms Manufacturing Woollen Yarn

## NOVA SCOTIA

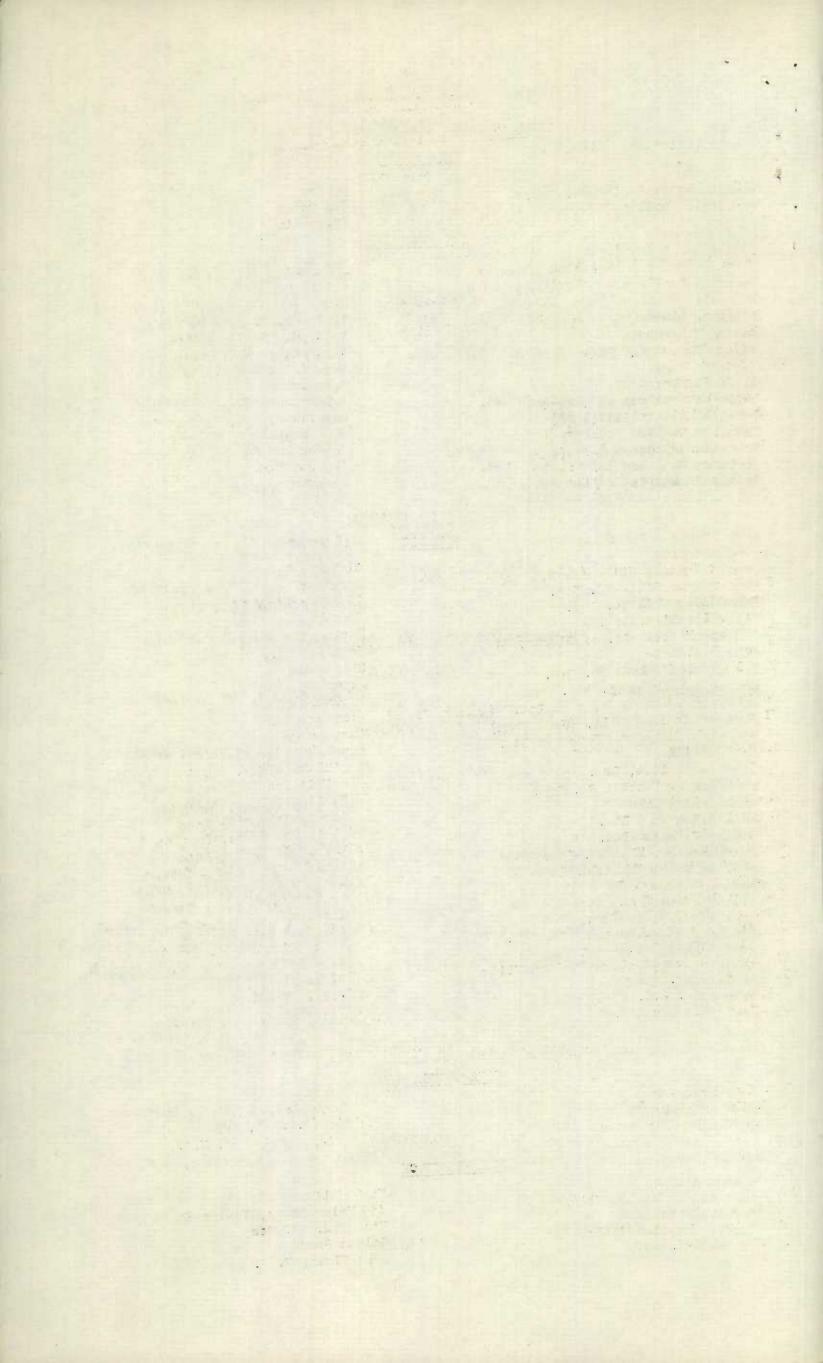
Jas. Creelman & Sons
A. M. Macpherson
Barrington Woollen Mills

Newton Mills
Rocklin (R.R. #1, Lansdowne)
Main St., Barrington, M.S.

#### MEW BRUISWICK

Briggs and Little
Carleton County Woollen Mills
Speedy & Davidson
Golden Grove Woollen Mills
F. H. Copp, Ltd.

York Mills 239 Main Street, Woodstock Wing St., St. Stephen Golden Grove Port Elgin, N. 3.



Pennan's Limited, (Mill #8)

St. Hyacinthe

#### ONTARIO

Madoc Woollen Wills A. W. Eastwood Aked & Co. Ltd., (Operated by Patons and Baldwins Limited) Dominion Woollens and Worsteds Limited Dunnville Toollen Mills, Limited - Dunnville Initters Limited James F. Gordon Guelph Carpet & Worsted Spinning Wills, Ltd.

H. C. Wagner Dominion Woollens and Worsteds Ltd. Penman's Limited (Mill #9) Perman's Limited (Mill #12) Tewlards and Co. Ltd. Cominion Toollens and Worsted Ltd. Burritts Rapids Woollen Mills Ltd.

Madoc Baltimore

833 Dupont Street, Toronto Peterborough (H. O. 388 St. James St., Montreal) Rink Street, Peterborough Athens 83 Neeve Street, Guelph (Carpets and Yarns).

Milton Paris Waterford Galt Orillia Burritts Rapids

## BRITISH COLUMBIA

B. C. Torsted Mills Dimited

25 Montreal Street, Victoria.

## MANITOBA

Fairfield and Sons

Little Brittain

### Firms Manufacturing Carnets, Mats and Rugs

#### MOVA SCOTIA

John E. Garret Ltd.

Kempt Street, Hew Glasgow

## NEW BRUNSWICK

Maritime Rug Yorks, Ltd.

370 Main Street, Saint John

#### ONTARIO

Contario Rug Works W. E. Eaton Harding Caroets Ltd. Canada Rug Co. (W. C. P. Baldwin)
Hamilton Rug Works (Allan Brass) Therien and Company Turco Persian Rug Renovating Co. Veteran Rug Weaving Co. Brinton Carpet Co. Ltd. Coourg Matting & Carpet Co. Ltd. Empire Rug Wills Donald McKinnon & Sons The Foronto Carpet Manufacturing Co. Ltd. United Rug Weaving Co. Towelty Rug Co. Youarch Pattern and Maedle Co.

153 York Street, Hamilton 128 Union St., Preston Brantford 98 Carling St., London 171 York Street, Hamilton 374 St. Andrew Street, Ottawa 166 Duchess Street, Toronto 1201 A. Queen Street E., Toronto Box 1065, Peterborough Coburg #1 Frank Street, St. Catharines Box #284, Cobourg 1179 King St. West, Toronto 125 Ewart Avenue, Moronto 9 349-353 Carlaw Ave., Toronto 8 547 Palmerston Blvd., Toronto.

#### MANITOBA

Capital Carnet & Rug Manufacturing Co. Ltd.

545 Arlington Street, Winnipeg.

## SASKATCHEWAN

Textile Weaving & Caroet Cleaning Works

406 20th Street West, Saskatoon.

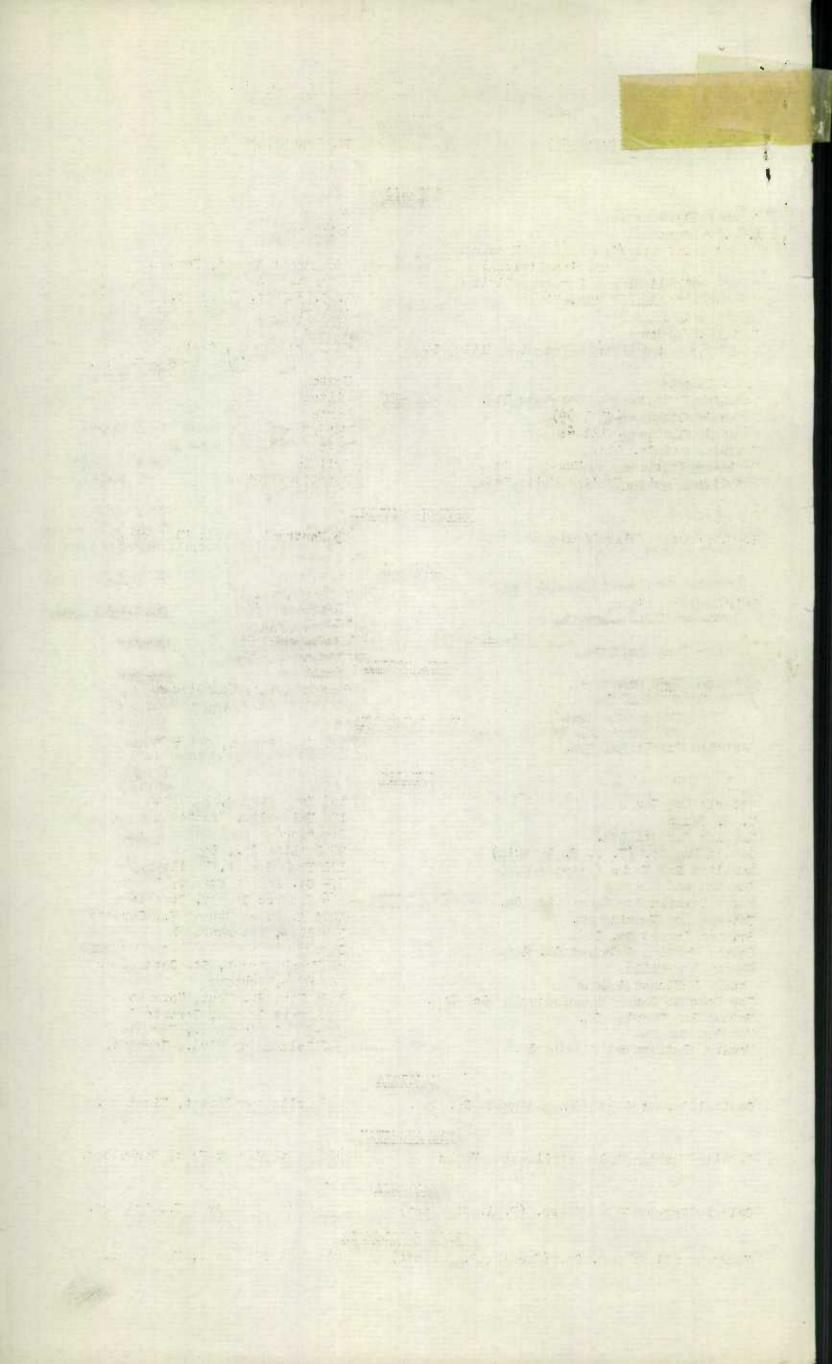
#### ALBERTA

Calgary Carpet & Rus Migrs. (D. A. Stoddart)

Rear 919 17th Ave. W., Calgary.

#### BRITISH COLUMBIA

Vancouver Fluff Rug. Co. (Fred'lt. S. Lockett) SUb Vest 1/th Ave., Vancouver.



### Firms Manufacturing Woollen Goods, n. e. s.

#### MOVA SCOTIA

Consolidated Randering Co.

Windsor

Wool Pulling

HEW BRUNSWICK

Joan Yimble & Son, Ltd.

1 - 15 Yimball St., Saint John,

Wool Pulling

Oso. B. Jackson Beckwith Box Toe, Ltd.

Montreal Blanket Co.

81 Duke St., Montreal Wool Pulling

65 E. Belvidere St., Sherbrooke

Wool felt goods Wool felt goods

Lachute Mills 5206 St. Patrick St., Montreal

Shoddy

Hoffman Bros. Ltd. E. Leadley & Co.

Avers, Ltd.

Toronto Wool Scouring Co. Canadian Consolidated Felt Co. Ltd.

Menwood Wills Utd. Ocde Felt & Knitting Co. Ltd. The Rumpel Felt Co. Ltd.

Porrits & Spencer (Canada) Ltd.

Brantford Mill Stock Co.

Endire Wool Stock Co.

General Wool Stock Co. Tome Wool Stock Co. Otto Fomuth & Sons Ltd. Sincoe Tool Stock Co. (H. J. Brock) Ino Smith Mfg. Co. Ltd.

Torkshire Wool Stock Mills, Ltd. Burlington Windsor Blanket Co. Ltd.

Canada Wool Stock Co. Woolston Limited

ONTARIO

53 Trinity St., Toronto Wool Pulling

396 Queen St. W., Toronto

Wool Pulling Wool Pulling

2 Mark St., Toronto g4 Margaret Ave.,

Wool felt goods

Kitchener Arnorior

Wool felt goods Wool felt goods

Perth 60 Victoria Street,

Wool Felt goods

Kitchener Lottridge St.,

Hamilton

Wool felt goods

31 Jarvis St., Brantford

Shoddy

91 Stuart St. West,

Hamilton

Shoddy 121 Logan Ave., Toronto Shoddy 9 Foster Place, Toronto Shoddy

Preston

Shoddy Shoddy

201 Front St. E., Foronto

Shoddy

Almonte

Shoddy

737-733 Fing St. West,

Toronto

Horse Clothing

257 Niagara St., Toronto Shoddy 486 Wellington St. W.,

Toronto

Shoddy

BRITISH COLUMBIA

Bissinger and Co.

365 Second Ave. W., Vancouver

Wool Pulling

