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REPORT

on the

WOOLLEN TEXTILE INDUSTRY

in

CANADA

1924

INCLUDING -

1. Woollen Cloths
2. Woollen Yarns
3. Carpets, Mats and Rugs
4. Woollen Goods, n. e. s.

Published by authority of the Hon. J. D. Chaplin,  
Minister of Trade and Commerce

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OTTAWA

1926

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DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
OTTAWA, CANADA.

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

THE WOOLLEN TEXTILE INDUSTRY IN CANADA, 1924

Ottawa, July, 1926. The annual report of the woollen textile industry in Canada for the calendar year 1924 is herewith presented under the four following heads:

1. Woollen cloths.
2. Woollen yarns.
3. Carpets, mats and rugs.
4. 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 6, woollen yarn mills by 2, carpets, mats and rugs by 5 and woollen textile mills n.e.s. by 2.

Provinces	Woollen cloth mills	Woollen yarn mills	Carpets, mats and rugs	Woollen goods n.e.s. #	All woollen textile mills
CANADA	60	17	18	31	126
Nova Scotia	4	1	-	1	6
New Brunswick	2	3	1	1	7
Quebec	9	1	-	6	16
Ontario	45	12	13	22	92
Western provinces	-	-	4	1	5

# Woollen goods, n.e.s. includes wool felts, wool pulled, etc., wool stock (shoddy) wool waste and noils, etc.

Associated Industries

Closely associated with the woollen industry are the hosiery and knit goods and textile, dyeing and finishing industries. Of the former 150 individual establishments reported during 1924 and 10 in the latter, this statistical information being included with the report on dyeing and laundry work. The total value of production in these two industries in 1924 was \$45,158,745, of which the hosiery industry accounted for \$43,645,742 and the dyeing industry for \$1,513,003.



# THE WOOLLEN TEXTILE INDUSTRY IN CANADA, 1924.

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 1924 for the Dominion as a whole.

## Summary of the Woollen Textile Industry, by Sections, 1924.

Principal Statistics		Woollen cloths	Woollen Yarns	Carpets mats and rugs	Woollen goods n.e.s.	Total Woollen textile industries
Establishments	No.	60	17	18	31	126
Capital investment	\$	22,551,881	9,856,783	4,738,420	7,977,444	45,124,528
Employees on salaries-						
Male	No.	224	44	163	71	502
Female	No.	59	19	32	29	139
Salaries	\$	710,535	164,899	285,131	259,917	1,420,482
Employees on wages,						
average of:-						
Male	No.	2,340	684	453	513	3,990
Female	No.	2,067	874	181	411	3,533
Wages	\$	3,414,615	933,052	559,780	769,352	5,706,799
Outside piece-workers-						
Female	No.	19	75	-	-	94
Amount paid	\$	2,617	1,540	-	-	4,157
Cost of fuel	\$	323,472	85,835	43,580	773,393	526,280
Power employed --						
Units	No.	707	181	205	245	1,338
Capacity	H.P.	12,765	2,923	1,853	4,228	21,769
Cost of materials	\$	8,392,939	4,646,180	1,122,151	3,163,939	17,325,209
Value of products	\$	15,005,081	6,671,234	2,725,779	5,773,042	30,175,136
Value added by manufacture	\$	6,612,142	2,025,054	1,603,628	2,609,103	12,849,927

Compared with 1923, there was a decrease of 15 in the number of establishments reporting, of 5 in the number of females on salaries, of 419 in male employees and 262 in female employees on wages, of \$961,778 in the amount paid in wages, of \$207,527 in the cost of fuel, of 2,346 in horse power installed, of \$352,072 in the cost of materials, of \$3,296,951 in the value of products and of \$2,944,879 in the value added by manufacture, whilst on the other hand increases appear in capital invested of \$1,976,310, of 20 in the number of male employees on salaries, of \$34,310 in the cost of salaries, of 76 in the number of female piece-workers and of \$1,390 in the amount paid them for work done.

## Principal Statistics compared for Canada and the provinces in 1923 and 1924

A comparison by provinces of the principal statistics in woollen cloth mills for the calendar years 1923 and 1924 is offered in Table 1. The number of mills reporting decreased during the period by 6 and the gross value of products by \$1,449,794. 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, 1923.

Principal Statistics		CANADA	Ontario	Quebec	Nova Scotia	New Brunswick
Establishments	No.	66	46	11	5	4
Capital invested	\$	22,527,138	18,298,511	2,594,967	1,119,670	513,990
Employees on salaries -						
male	No.	283	219	38	20	6
female	No.	70	59	5	5	1
salaries	\$	763,810	629,985	89,008	28,542	16,275
Employees on wages (avge No.) -						
male	No.	2,647	2,240	248	99	59
female	No.	2,309	1,870	280	85	74
wages	\$	3,963,137	3,357,225	443,246	76,292	86,374
Outside piece-workers -						
female	No.	18	18	-	-	-
payments to	\$	2,767	2,767	-	-	-
Cost of fuel	\$	474,705	380,109	53,387	27,544	13,665
Power employed -						
units	No.	575	495	53	16	11
capacity	H.P.	12,642	10,324	1,723	298	297
Miscellaneous expenses	\$	1,849,697	1,546,736	174,639	68,007	60,315
Cost of materials	\$	8,564,356	7,608,515	643,361	179,985	132,495
Value of products	\$	16,454,875	14,233,817	1,517,296	408,347	295,415
Value added by manufacture	\$	7,890,519	6,625,302	873,935	228,362	162,920

Principal Statistics of Woollen Cloth mills, by provinces, 1924.

Principal Statistics		CANADA	Ontario	Quebec	Nova Scotia and New Brunswick
Establishments	No.	60	45	9	6
Capital invested	\$	22,551,881	19,169,232	2,638,266	744,383
Employees on salaries -					
male	No.	224	177	26	21
female	No.	59	48	6	5
salaries	\$	710,535	613,673	62,647	34,215
Employees on wages (avge No) -					
male	No.	2,340	1,967	281	92
female	No.	2,067	1,669	311	87
wages paid	\$	3,414,615	2,906,550	398,174	109,891
Outside piece-workers -					
female	No.	19	19	-	-
payments to	\$	2,617	2,617	-	-
Cost of fuel	\$	323,472	265,844	44,474	13,154
Power employed -					
units	No.	707	658	39	10
capacity	H.P.	12,765	10,604	1,648	513
Cost of materials	\$	8,392,939	7,050,864	1,091,867	250,208
Value of products	\$	15,005,081	12,866,087	1,698,303	440,691
Value added by manufacture	\$	6,612,142	5,815,223	606,436	190,483



# SECTION I. THE WOOLLEN CLOTH INDUSTRY, 1924

In this section there was a decrease of 6 in the number of operating plants as compared with 1923, two being located in Quebec, 2 in New Brunswick and 1 each in the provinces of Nova Scotia and Ontario. (See table on page 1 for location of plants by provinces).

## Production, 1924

Consequent upon the reduction in the number of operating plants there was a considerable decline in the value of production as compared with 1923, amounting to \$1,449,794. The province of Ontario contributed \$12,866,087 or 85.7 per cent of the total value of production. Quebec \$1,698,303 or 11.3 per cent and the maritime provinces \$44,691 or 2.9 per cent. The items of cashmeres, tweeds etc. and coating serges etc. both for men's wear show decreases, whilst the items for women's wear show considerable increases.

Table 2.- Production in Woollen Cloth mills in Canada, 1924.

Classes of Products	All wool woven goods		Union goods (Cotton mixed) Yards	Goods woven on cotton warps with weft wholly of wool worsted etc. Yards	Selling value at the factory or mill \$
	Woollen Yards	Worsted Yards			
Cashmeres, cheviots, tweeds flannel, etc. men's wear	915,282	-	534,980	513,975	1,248,651
Overcoatings, cloakings, etc. for men's or women's wear	2,099,848	-	-	-	3,476,689
Coatings, serges and suitings, men's wear	51,644	361,177	-	7,168	1,105,142
Dress goods, sackings, tricots, etc. for women's wear	1,096,014	5,033	-	-	1,898,110
Flannels for underwear	385,843	-	330,267	-	618,464
Blankets	323,481	-	252,000	-	455,381
Jersey cloth and stockinette	52,227	-	-	-	71,429
Blanket cloth	170,564	-	-	-	208,755
Macdonaw cloth	670,940	-	-	-	941,235
Velours and plushes	669,807	-	-	-	1,351,133
Astrakhans and similar goods	22,440	-	-	-	39,270
Auto cloths	93,801	-	-	-	140,430
Cotton yarn			pounds	92,000	44,450
Woollen yarns			"	1,118,369	672,508
Worsted yarns			"	1,439,171	1,217,970
Blankets			"	95,500	108,080
Blankets			pairs	12,291	49,320
Sheeting			-	-	6,507
Wool felts for pulp and paper making			pounds	30,879	90,794
Carriages robes, rugs and cloths			No.	29,905	78,423
Horse blankets and saddle blankets			-	-	55,599
Shawls			-	-	20,031
Sweaters			dozen	15,601	404,720
Hancy knit goods			"	18,023	151,258
Hosiery			"	22,996	93,918
Glove, shoe and other linings			"	-	197,733
All other products			-	-	124,680
Custom work			-	-	129,401
Total Selling Value of Products					15,005,081

## Capital Investment

The amount of capital invested in the woollen cloth section of the industry in 1924 is shown in Table 3, under two heads: fixed capital which includes land, 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 85 per cent of the total investment, Quebec 11.7 per cent and the maritime provinces 3.3 per cent. Fixed capital increased by \$565,050 over 1923, while working capital, more variable in character, decreased by \$640,307 leaving a net increase of \$24,743.

Table 3.- Capital invested by provinces, 1924.

Provinces	Fixed capital	Working Capital		Total Capital
	Land, buildings, etc. machinery and tools	Materials and supplies and finished products on hand	Cash, trading and operating accounts, etc.	
	\$	\$	\$	\$
CANADA	11,778,713	6,472,405	4,300,763	22,551,881
Nova Scotia and New Brunswick	392,915	280,229	71,239	744,383
Quebec	1,530,856	367,553	239,857	2,638,266
Ontario	9,854,942	5,324,623	3,989,667	19,169,232

## Employment Statistics

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 fell from 5,327 persons of both sexes in 1923 to 4,709 in 1924 and the total of salaries, wages, etc. from \$4,729,714 in 1923 to \$4,127,767 in 1924, being a decrease of 61% in the number employed and of \$601,947 in the total payroll.

Table 4.- Employees, Salaries and Wages by provinces, 1924.

Employees by number and sex		CANADA	Ontario	Quebec	Maritime Provinces
Salaried employees -					
Male	No.	224	177	26	21
Female	No.	59	48	6	5
Total salaries	\$	710,535	613,673	62,647	34,215
Wage-earning employees -					
Male	No.	2,340	1,967	281	92
Female	No.	2,067	1,669	311	87
Total wages	\$	3,414,315	2,906,550	398,174	109,891
Outside piece-workers -					
Female	No.	19	19	-	-
Amount paid	\$	2,617	2,617	-	-
Total all employees -					
Male	No.	2,564	2,144	307	113
Female	No.	2,145	1,736	317	92
Salaries and wages	\$	4,127,767	3,522,840	460,821	144,106



Employment Statistics, Continued.

Statistics of employment by months, as per payroll, in the woollen cloth mills of Canada are shown in Table 5, for the calendar year 1924. The maximum of employment was attained in the month of January with a total of 4,647 of both sexes whilst the month of minimum employment was that of November with a total of 4,168. The average monthly employment for the year was 4,407 of whom 2,340 were males and 2,067 were females.

Table 5.- Employment by months as per payroll, 1924.

Months	Male No.	Female No.	Months	Male No.	Female No.
January	2,449	2,198	July	2,334	2,075
February	2,452	2,162	August	2,313	1,988
March	2,370	2,175	September	2,268	1,964
April	2,350	2,149	October	2,270	1,906
May	2,362	2,151	November	2,263	1,905
June	2,364	2,128	December	2,286	2,004
Total employment by months				28,081	24,805
Average monthly employment for the year				2,340	2,067

The operating time of plants and employees in the Dominion is shown in Table 6. Plant operation on full and part time shows a loss of 2,936 days as compared with 1923. The hours of labour by employees also show a decrease from 9.5 hours per day in 1923 to 8.23 in 1924 whilst weekly hours fell from the average of 53.1 in 1923 to 52.65 in 1924.

Table 6.- Working time of plants and employees, 1924.

Number of establishments reporting	60	
	Totals	Averages
Days plants were in operation -		
On full time	13,378	222.97
On part time	1,498	24.96
Idle	3,364	56.07
Hours worked by wage-earners -		
Per day or shift	34,116	8.23
Per week	3,159	52.65

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 7. Compared with 1923 there was a decrease in the total cost of fuel amounting to \$151,233. The principal fuel use was bituminous coal which fell from 54,183 tons in 1923 to 46,160 tons in 1924. The average price of bituminous coal of all grades was \$7.91 in 1923 as against \$6.80 in 1924.

Table 7.- Fuel Consumption by classes, quantity and value, 1924.

Classes of fuel	Unit of measure	Quantity	Cost value delivered at mill
			\$
Bituminous coal	ton	46,160	314,150
Anthracite coal	"	101	1,354
Gasoline	gallon	2,507	758
Wood	cord	1,936	7,032
All other fuels, not specified	-	-	178
Total cost of fuel	-	-	323,472



### Power Installation

Power installation in the woollen cloth mills of the Dominion is shown in Table 8 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 1924. Electric motors were the principal power used having increased by 190 units and an aggregate of 579 horse power over 1923. The cost of electricity purchased for all purposes during 1924 amounted to \$89,479. Boilers installed for any purpose numbered 69 with a boiler h.p. capacity of 7,705.

Table 8.- Power Installation, 1924.

Classes of power	Number of units	H.P. according to manufacturers' rating
Steam engines and turbines	21	2,800
Oil gas and gasoline engines	2	13
Hydraulic turbines or water wheels	41	3,206
Electric motors operated by purchased power	643	6,746
Total power used in manufacturing	707	12,765
Electric motors operated by owned power	31	252
Total electric motors	674	6,998

### 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 9. The total cost in 1924 was \$8,392,939 or only \$171,417 less than the preceding year. The higher cost of the raw and partly manufactured materials such as wool, tops, wastes and noils in the former, and yarn of all kinds in the latter class, accounts for the small variation in the total cost, as stated above. Wool constituted 69 per cent of the total cost of materials, yarns purchased of all kinds, 10 per cent and chemicals dyestuffs etc. 5.5 per cent.

Table 9.- Materials used by principal classes, 1924.

Classes of Materials	Unit of measure	Quantity	Cost value at mill or factory
Wool, domestic, in condition purchased	pounds	2,636,265	\$ 961,177
Wool foreign, in condition purchased	"	4,340,825	1,667,037
Wool foreign and domestic in scoured condition	"	2,359,039	1,161,787
Mohair	"	139,892	172,967
All other animal hair	"	30,957	6,425
Tailors clippings, rags etc.	"	718,159	48,466
Cotton, raw	"	576,529	204,890
Shoddy, mungo and wool extract	"	1,612,051	353,600
Wool waste and noils	"	1,311,520	527,699
Mohair noils	"	25,361	15,922
Tops	"	1,981,672	1,304,839
Woollen yarns	"	30,899	6,999
Worsted yarns	"	296,086	598,654
Cotton yarns	"	395,603	255,285
Silk yarns	"	7,920	30,144
Silk waste	"	964	538
Cotton waste	"	54,200	10,413
Jute, ramie, and other yarns of vegetable fibre	"	5,000	373
Chemicals and dyestuffs (value only)	-	-	460,320
All other materials, (value only)	-	-	605,404
Total cost of materials	-	-	8,392,939

Equipment in Woollen Cloth Mills

The equipment installed in the mills operating in 1924 consisted of 268 sets of cards of specified widths; the number at each width being indicated below:

Under 40 inches	40 inches	44 inches	48 inches	50 inches	54 inches	60 inches	66 inches	72 inches	Total
24	36	13	89	3	12	91	5	14	268

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

1 Cylinders	2 Cylinders	3 Cylinders	4 Cylinders	5 Cylinders	6 Cylinders	Total
24	10	148	70	11	5	268

The number of spindles and looms operating in 1924 is summarized in the following tabular statement.

Spindles and looms	Woollen No.	Worsted No.	Shoddy No.	Cotton No.	Mohair No.	Total
Mule spinning spindles	82,458	-	-	1,300	-	83,758
Frame spinning spindles	1,891	19,928	-	576	-	22,395
Doubling and twisting spindles	5,626	6,278	-	400	-	12,304
Broad looms (50" reed space or over)	1,306	101	-	4	21	1,432
Narrow looms (under 50" reed space)	283	2	-	108	-	393
Hand looms	7	-	-	-	-	7

Other Equipment

Number

Wool combing machine

22

Pickers

87

Garnet machine

16



Imports, Woollen Textiles, 1924

The quantity and value of the chief imports of woollen textiles for the calendar year 1924 is shown in Table 10 by principal countries. The total value of all imports during the calendar year 1924 amounted to \$46,686,465 of which the United Kingdom supplied \$36,213,282, The United States \$4,548,473 and other Countries \$5,924,710. Imports from the United Kingdom of wool and its products were 77.5 per cent of the total, from the United States 9.7 per cent and from Other Countries 12.7 per cent.

Table 10.- Chief Imports by Principal Countries, calendar year 1924.

Articles		Quantity	Value \$
Raw materials :-			
Wool, raw -	lb.	15,388,445	6,280,718
United Kingdom		7,036,771	3,027,789
United States		5,412,273	2,216,186
Australia		963,835	411,763
New Zealand		1,129,079	309,811
Other Countries		846,487	315,169
Worsted tops	lb.	6,070,283	3,744,916
United Kingdom		4,953,121	2,690,947
United States		297,359	366,742
Australia		607,199	512,897
Other Countries		212,604	174,330
Wool noils	lb.	484,831	305,404
United Kingdom		424,856	267,653
United States		59,975	37,751
Other Countries		-	-
Wool waste	lb.	154,585	40,488
United Kingdom		147,071	37,482
United States		7,514	3,006
Partly Manufactured materials: -			
Wool yarns	lb.	2,649,992	3,146,539
United Kingdom		2,528,659	2,980,859
United States		15,336	24,802
Other Countries		105,997	140,878
Mohair yarns	lb.	82,033	116,769
United Kingdom		76,551	112,379
United States		5,482	4,390
Alpaca yarns	lb.	22,658	18,575
United Kingdom		22,658	18,575
Woollen and worsted yarns dyed etc.	lb.	2,745	3,348
United Kingdom		1,962	1,946
United States		783	1,402
Woollen and worsted yarns, n.o.p.	lb.	231,409	332,498
United Kingdom		198,888	289,116
United States		8,512	11,381
Other Countries		24,009	32,001
Wholly manufactured goods:-			
Felt cloth, n.o.p.	yd.	17,580	32,906
All Countries			
Flannels, plain	yd.	1,018,095	470,883
United Kingdom		966,972	444,910
United States		4,418	1,777
Other Countries		46,705	24,196
Fabrics of wool, lustres etc.	yd.	2,083,038	1,082,713
United Kingdom		2,081,381	1,080,483
United States		654	976
Other Countries		1,003	1,254
Overcoatings	yd.	328,947	418,800
United Kingdom		321,229	399,916
United States		6,042	13,900
Other Countries		1,676	4,984
Tweeds -	yd.	3,626,529	3,130,252
United Kingdom		3,575,197	3,061,737
United States		13,788	20,558
Other Countries		37,544	47,957
Dress goods, women's etc.	yd.	8,075,532	3,636,033
United Kingdom		5,758,764	2,326,331
Other Countries		2,316,768	1,309,702

Imports, Woollen Textiles, 1924. Cont'd.

Articles	Quantity	Value
		\$
Wholly manufactured goods - Cont'd.		
Worsted and serges etc. yd.	9,859,398	12,398,068
United Kingdom	8,654,919	11,059,886
United States	133,441	203,706
Other Countries	1,071,033	1,134,476
Blankets, wool pr.	159,655	578,303
United Kingdom	148,787	539,323
United States	10,512	37,357
Other Countries	356	1,623
Socks and stockings, wool doz.pr.	506,445	2,142,700
United Kingdom	497,685	2,107,908
United States	6,574	24,283
Other Countries	2,186	10,509
Clothing, women's and children's \$	-	789,004
United Kingdom	-	229,955
United States	-	516,319
Other Countries	-	42,730
Clothing, ready made n.o.p. \$	-	1,617,599
United Kingdom	-	1,311,509
United States	-	286,231
Other Countries	-	19,859
Cassimeres \$	-	3,205,855
United Kingdom \$	-	2,015,982
United States	-	455,963
Other Countries	-	733,910

Exports of Wool and Its Products

The exports of Canadian wool and manufactures for the calendar year 1924 are shown in Table 11. The total value of exports during 1924 was \$2,968,388 as compared with \$2,363,024 in 1923, an increase of over 25 per cent. Of the total value of Canadian produce exported 74 per cent went to the United States, 15.5 per cent to the United Kingdom and 10.5 per cent to Other Countries.

Table 11.- Exports of Canadian Produce by principal Countries, calendar year 1924.

Articles and Countries	Quantity	Value
		\$
Wool, raw lbs.	6,320,468	2,479,621
To United Kingdom	1,080,653	424,217
United States	5,205,926	2,040,938
Other Countries	33,889	14,466
Wool fabrics, yds.	16,548	24,830
To United States	7,533	11,172
Other Countries	9,015	13,658
Wool carpets \$	-	17,752
To United Kingdom	-	4,986
United States	-	8,856
Other Countries	-	3,910
Woollen underwear \$	-	88,964
To United Kingdom	-	20,280
United States	-	2,753
Other Countries	-	65,931
Wool clothing, n.o.p. \$	-	175,143
To United Kingdom	-	1,188
United States	-	7,742
Other Countries	-	166,213
Woollens, n.o.p. \$	-	191,915
To United Kingdom	-	11,004
United States	-	132,460
Other Countries	-	48,451
Total Wool and Its Products \$	-	2,968,388
To United Kingdom	-	459,469
United States	-	2,198,716
Other Countries	-	310,203



Section II. Woollen Yarns

Statistics of the woollen yarn industry in Canada for the calendar year 1924 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 1922, 1923 and 1924.

Table 1.- Principal Statistics of the Woollen Yarn Industry, 1922-24.

Principal Statistics		1924	1923	1922
Establishments reporting	No.	17	19	17
Capital invested	\$	9,856,783	9,279,418	6,846,505
Employees on salaries -				
Male	No.	44	46	43
Female	No.	19	22	24
Salaries	\$	164,899	157,465	146,538
Employees on wages, average -				
Male	No.	684	618	536
Female	No.	874	778	680
Wages	\$	933,052	1,013,898	869,017
Power installed -				
Units	No.	181	190	142
Capacity	H.P.	2,923	4,598	4,573
Cost of fuel	\$	85,835	112,227	101,233
Cost of materials	\$	4,646,180	4,333,348	3,324,348
Value of products	\$	6,671,254	7,405,132	5,850,344
Value added by manufacture	\$	2,025,074	3,071,784	2,525,996

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 \$7,405,132 in 1923 to \$6,671,254 or a decrease of 9.9 per cent. The province of Ontario alone accounted for over 83 per cent of the total production in the Dominion.

Table 2.- Production of Woollen Yarns etc. 1924.

Articles produced	Unit of measure	Quantity	Selling Value at mill or factory
			\$
Cotton yarns	pound	1,958,044	768,995
Woollen yarns	"	1,348,714	1,181,069
Worsted yarns	"	2,205,001	2,654,419
Wool tops	"	1,534,800	920,884
Wool waste and noils	"	197,853	87,513
Wool felts for pulp and paper making	"	85,151	113,410
Carpets, axminster etc. cut pile	lineal yd.	148,500	459,704
Carpets, tapestry Brussels etc.	" "	135,672	255,619
Blankets	pound	490,008	205,256
All other products (value only)	-	-	24,365
Total Value of Products	-	-	6,671,234

### Capital Investment

The amount of capital invested in the woollen yarn industry in 1924 is shown by items and provinces in Table 3. Fixed capital comprising land, buildings, machinery and tools, which in 1923 amounted to \$4,455,836 decreased during the year by \$301,967, whilst working capital comprising materials, stocks and supplies on hand and cash trading and operating accounts on the other hand increased by \$879,332. Total capital therefore, shows an increase over 1923 of \$577,365. Ontario provided nearly 90 per cent of the total capital, Quebec 9.8 per cent and the Maritime provinces one third of one per cent.

Table 3.- Capital invested in Woollen yarn mills by provinces, 1924.

Provinces	Fixed Capital	Working Capital		Total Capital
	Land, buildings etc. machinery and tools	Materials and stocks on hand, miscellaneous supplies etc.	Cash, trading and operating accounts etc.	
	\$	\$	\$	\$
Maritime provinces and Quebec	503,918	248,039	248,490	1,000,447
Ontario	3,649,951	2,197,149	3,009,236	8,856,336
TOTAL	4,153,869	2,445,188	3,257,726	9,856,783

### Employment Statistics

The statistics relating to employment in the woollen yarn mills are presented in the following series of tables:

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 65.8 per cent of the male employees, 73.2 per cent of the females and expended in salaries and wages etc. 79 per cent of the total for the Dominion.

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

Employees by Classes, etc.			CANADA	Ontario	Maritime Provinces and Quebec
Salaried employees -					
Male	No.		44	39	5
Female	No.		19	17	2
Total salaries	\$		164,899	149,889	15,010
Wage-earners, average number -					
Male	No.		684	440	244
Female	No.		874	617	257
Total wages	\$		933,052	717,356	215,696
Outside, piece-workers -					
Female	No.		75	75	-
Total Payment	\$		1,540	1,540	-
TOTAL,					
Employees, male	No.		728	479	249
Employees, female	No.		968	709	259
Salaries and wages	\$		1,099,491	868,785	230,706



Employment Statistics. Continued

Table 5 presents the statistics of employment during 1924 according to number and sex of wage-earner by months. The maximum of employment was reached in the month of January with a total of 1,612 employees of whom 698 were males, and 914 were females. The minimum of employment was reached in June with a total of 1,485 employees of whom 642 were males and 844 were females. The average employment for the year was 684 males and 874 females.

Table 5.- Employment by months and sex, 1924.

Months	Males No.	Females No.	Months	Males No.	Females No.
January	698	914	July	660	870
February	686	887	August	657	847
March	689	915	September	690	844
April	707	904	October	692	845
May	706	900	November	685	857
June	642	844	December	694	856
Total employment during the year				8,206	10,483
Average monthly employment during year				684	874

Working time. Table 6 shows the number of days that plants were in operation during 1924, whether on full time, part time or idle together with the hours of labour worked by employees per day and per week. The average time per plant lost through idleness increased by 15.2 days over the preceding year. Hours worked per day increased from 8.2 in 1923 to 9 in 1924.

Table 6.- Working time of Plants and Employees, 1924.

Number of operating plants	17	
	Totals	Averages
Days plants were in operation		
On full time	3,575	210.30
On part time	442	26.00
Idle	1,151	67.70
Hours worked by employees.		
Per day or shift	15,990	9.00
Per week	879	51.70

Fuel Consumption

The quantity and value of the fuel consumed by the woollen yarn industry are shown in Table 7 for the calendar year 1924. The cost of fuel shows a decrease of over 23 per cent as compared with 1923, when the total outlay was \$112,227. Bituminous coal accounted for over 99 per cent of the total outlay in 1924.

Table 7.- Fuel Consumption by Classes, 1924.

Classes of Fuel	Unit of measure	Quantity	Cost Value at Factory
Bituminous coal	ton	12,653	\$ 85,034
Gasoline	gallon	140	41
Wood	cord	123	366
Gas, artificial or natural	m.c.ft.	872	394
Total cost of fuel	-	-	85,835

### Power Installation

The power installed in woollen yarn mills in 1924 is shown in Table 8 by (a) the classes of power, (b) the number of units in each class and (c) the total horse-power according to manufacturers' rating. The cost of electricity purchased was \$46,006 which is equal to \$20.43 per horse power purchased. Boiler installation consisted of 23 units with a horse power capacity of 1,970.

Table 8.- Power Installation. 1924.

Classes of power	Number of units	Horse Power according to manufacturers' rating
Steam engines and turbines	3	265
Oil, gas and gasoline engines	2	21
Hydraulic turbines or water wheels	5	386
Electric motors operated by purchased power	171	2,251
Total power used in manufacturing	181	2,923
Electric motors operated by owned power	5	150
Total electric power used	176	2,401

### 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 9 for the calendar year 1924. Raw wool represented 42 per cent, tops and noils 31.6 per cent, and woollen and worsted yarns 10.7 per cent of the total cost of materials used during the year.

Table 9.- Materials used in Woollen Yarn Mills, 1924.

Kinds of Materials	Unit of measure	Quantity	Cost Value at the factory or mill
			\$
Wool, domestic in condition purchased	pound	915,157	285,140
Wool, foreign in condition purchased	"	3,208,918	1,505,706
Wool, foreign and domestic in secured condition	"	282,161	162,359
Wool waste and noils	"	107,019	25,927
Tops	"	2,707,014	1,441,695
Shoddy meringo and wool extract	"	556,905	109,548
Cotton, raw	"	500,495	156,234
Tailors' clippings, rags etc.	"	617,005	88,192
Woollen yarns	"	886,619	341,851
Worsted yarns	"	218,620	151,079
Cotton yarns	"	76,794	34,733
Silk yarns	"	16,957	28,742
Linen yarns	"	73,070	18,267
Jute ramie or other yarns of vegetable fabric	"	142,000	17,040
Artificial silk yarns	"	4,000	5,997
Chemicals and dyestuffs (value only)	-	-	164,519
All other materials (value only)	-	-	109,551
Total Cost of Materials	-	-	4,646,180

### Equipment

The equipment of the 17 mills reporting is shown in Table 10.

Table 10.- Equipment installed in Woollen Yarn mills, 1924.

Kind	Woollen	Worsted	Cotton	Total
Sets of cards	60	18	4	82
Total width of same, inches	2,932	1,068	160	4,160
Cylinders to each set of cards, number	177	36	4	217
Spindles number:				
Mule spinning spindles	18,269	4,800	-	23,069
Frame spinning spindles	151	20,836	-	20,987
Doubling and twisting spindles	523	8,044	-	8,567
Broad looms (50 inches reed space or over)	54	-	-	54
Narrow looms (under 50 inches reed space)	66	-	-	66
Wool combing machines				14
Pickers				31
Garnet machines				5

### Imports and Exports

Figures of Imports and Exports of yarns will be found in Tables 10 and 11, under the Woollen Cloth Industry (pages 9 and 10).



### 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 1924 the number of individual establishments reporting was 18, of which 13 were in Ontario, 2 in British Columbia and 1 in each of Alberta, Saskatchewan and New Brunswick.

#### Principal Statistics

A table showing the principal statistics of the industry for the calendar years 1922, 1923 and 1924 is given below for purposes of comparison.

Summary of Principal Statistics, 1922, 1923 and 1924.

Principal Statistics		1922	1923	1924
Establishments reporting	No.	21	23	18
Capital invested	\$	2,951,229	4,130,485	4,738,420
Employees on salaries -				
Male	No.	68	62	163
Female	No.	21	24	32
Total salaries	\$	186,038	154,768	285,131
Employees on wages, average number -				
Male	No.	573	660	453
Female	No.	239	285	181
Total wages	\$	792,047	893,055	559,780
Cost of fuel	\$	52,416	56,686	43,580
Power installed -				
Units	No.	70	78	205
Capacity	H.P.	1,544	1,522	1,853
Cost of materials	\$	1,468,725	1,638,149	1,122,151
Value of products	\$	3,470,402	3,808,914	2,725,779
Value added by manufacture	\$	2,001,677	2,170,765	1,603,628

#### 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 98.5 per cent of the total value of production belongs to the province of Ontario. Carpets contributed 30.75 per cent and rugs woven whole 54.9 per cent of the total value of output.

Table 1.- Production of Carpets, Mats and Rugs, 1924.

Articles manufactured		CANADA		Ontario		Other Provinces	
		Quan.	Value \$	Quan.	Value \$	Quan.	Value \$
Carpets, Axminster, Wilton, etc.	cut pile	226,159	736,471	226,159	736,471	-	-
Tapestry, Brussels etc.	cut pile	77,362	101,745	77,362	101,745	-	-
Rugs, woven whole -							
Axminster, Wilton etc.	" "	496,998	1,265,460	496,999	1,265,460	-	-
Tapestry, Brussels, etc.	" "	40,585	71,209	40,585	71,209	-	-
Other woollen or worsted rugs	No.	70,855	159,404	70,855	159,404	-	-
Cocoa mats and matting	-	-	110,825	-	110,825	-	-
All other mats and rugs	-	-	118,220	-	102,746	-	16,174
All other products	-	-	162,445	-	142,760	-	19,685
TOTAL	-	-	2,725,779	-	2,689,920	-	35,859

### 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 1923 by \$607,935 or 14.6 per cent. Ontario's proportion of the total investment was over 99.5 per cent.

Table 2.- Capital invested by Provinces, 1924.

Items of Capital	CANADA	Ontario	Other Provinces
	\$	\$	\$
Fixed Capital:-			
Land, buildings, fixtures, machinery, etc.	1,557,893	1,540,611	17,282
Working Capital:-			
Materials, supplies and stocks in hand	704,358	702,435	1,923
Cash, trading and operating accounts, etc.	2,476,169	2,474,131	2,038
Total Capital	4,738,420	4,717,177	21,243

### Employment Statistics

Statistics relating to employment are shown in the following series of Tables for the calendar year 1924:-

- (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 809 persons in a total of 829 for the Dominion of approximately 97.5 per cent, while the amount paid for salaries and wages was 97.7 per cent of the total for the Dominion.

Table 3.- Employment by number, sex and remuneration in 1924, by provinces.

Employees by classes		CANADA	Ontario	Other Provinces
Employees on salaries -				
Male	No.	163	160	3
Female	No.	32	30	2
Total salaries	\$	285,131	277,591	7,540
Employees on wages, average number -				
Male	No.	453	440	13
Female	No.	181	179	2
Total wages	\$	559,780	548,064	11,716
Total employees -				
Male	No.	616	600	16
Female	No.	213	209	4
Salaries and wages	\$	844,911	825,655	19,256

The number of persons employed in the industry is shown for each month of the years divided according to sex. Employment reached its maximum in February with a total of 716 persons of whom 515 were males and 201 females. The month of lowest employment was September when there were on the payroll a total of 534 of whom 375 were males and 159 were females. The average monthly employment was 453 males and 181 females as shown in Table 4.

Table 4.- Employment by months and sex, 1924.

Months	Male No.	Female No.	Months	Male No.	Female No.
January	511	202	July	455	179
February	515	201	August	440	174
March	509	180	September	375	159
April	485	182	October	385	167
May	462	188	November	404	175
June	457	184	December	433	182
Total employment during the year				5,431	2,173
Average monthly employment during year				453	181



Employment Statistics - Continued.

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. Full time operation shows a decrease of 30.34 days during the year as compared with the report for 1923 while part time operation increased by 8.62 days. The difference between full and part time operation was 21.72 days, which is exactly the difference in time lost through plants being idle. There was also an increase in the working hours of employees as compared with 1923.

Table 5.- Operating time of plants and employees, 1924.

Number of establishments reporting	18	
	Totals	Averages
Days in operation -		
On full time	4,033	224.06
On part time	571	31.72
Idle	368	18.22
Hours worked by wage-earners -		
Per day or shift	6,705	9.06
Per week	355	47.50

Fuel Consumption

The quantity and value of fuel consumed by the industry in 1924 is shown in Table 6 by classes. Compared with 1923 there was a decrease in the total cost of fuel amounting to \$13,105, which is mainly accounted for by the decrease in the quantity of coal of various classes reported.

Table 6.- Fuel Consumption by classes, 1924.

Classes of fuel	Unit of measure	Quantity	Cost value at factory
			\$
Bituminous coal	ton	6,449	40,612
Anthracite coal	"	30	459
Coke	"	4	24
Gasoline	gallon	3,353	873
Fuel oils	"	6,643	811
Gas, artificial and natural	m.c.ft.	490	334
All other fuels	-	-	57
Total cost of fuel	-	-	43,580

Power Installation

The kinds of power installed in the carpet factories of the Dominion in 1924 are shown in Table 7. Electric motors supplied nearly 72 per cent of the total horse power installation in 1924 as compared with 64 per cent in 1923. The cost of electricity purchased during the year was \$13,127.

Eleven boilers with a horse power capacity of 2,544 were reported as against 8 boilers of 2,034 horse power in 1923.

Table 7.- Power Installation, 1924.

Classes of power installed	Number of units	Horse power capacity according to manufacturers' rating
Steam engines and turbines	3	521
Oil gas and gasoline engines	1	2
Electric motors operated by purchased power	201	1,330
Total power used in manufactures	205	1,853

### Materials Used

The principal materials used in the industry in 1924 are shown by quantity and cost value in Table 8. The total value of materials used amounted to \$1,122,151 of which woollen and worsted yarns constituted \$651,677 or 58 per cent. This value represents a decrease from the 1923 report of \$239,953 or approximately 27 per cent. Other yarns all show similar decreases in value as compared with 1923, that of cotton yarns being the largest with \$112,931, linen being next with \$25,897 and yarns of vegetable fibre last with \$5,018. The decrease in the total cost of all materials used was a little more than 68 per cent.

Table 8.- Materials used by kinds, 1924.

Kinds of materials used	Unit of measure	Quantity	Cost Value
Woollen yarns	pounds	475,536	\$ 373,419
Worsted yarns	"	381,112	278,258
Cotton yarns	"	527,748	247,481
Linen yarns	"	69,400	21,693
Jute, ramie and other yarn of vegetable fibre	"	1,269,145	161,595
Chemicals and dyestuffs (value only)	-	-	5,410
All other materials (value only)	-	-	34,295
Total cost of materials	-	-	1,122,151

### Equipment in Carpet, Mat and Rug Factories

The equipment reported in the carpet, mat and rug factories of the Dominion in 1924 was as follows:-

Broad looms (50 inches reed space or over)	45
Narrow looms (under 50 inches reed space)	236
Other looms	26
Coppers	4
Winders	3
Twisters	4
Braiders	3
Knitting machines	17
Sewing machines	8

### Imports and Exports

Table 9 presents statistics of the imports and exports of Carpets, mats and rugs by principal countries for the calendar year 1924. The total value of imports was \$1,762,552 and the value of manufactured products \$2,725,779 so that for every dollar of product manufactured in Canada we import goods to the value of sixty five cents. The United Kingdom supplied \$1,063,958 of the imports for consumption or 60 per cent, the United States \$177,552 or 10 per cent and Other Countries \$521,042 or about 30 per cent.

Table 9.- Imports of carpets, mats and rugs by principal countries, for calendar year 1924.

Articles	Quantity	Value
		\$
Carpets, Axminster in rolls Yd.		
United Kingdom	46,545	86,853
United States	236	230
Other Countries	863	1,066
TOTAL	47,649	88,149
Carpets, Axminster in sqs. No.		
United Kingdom	8,061	195,559
United States	670	14,316
Other Countries	535	9,944
TOTAL	9,266	219,819
Carpets, Brussels and Wilton in rolls Yd.		
United Kingdom	17,874	41,666
United States	32,582	16,346
Other Countries	-	-
TOTAL	50,456	58,012



Imports and Exports - Continued.

Table 9 - Imports - Cont'd.

Articles		Quantity	Value
			\$
Carpets, Brussels, Wilton in sqs.	No.		
United Kingdom		5,033	142,527
United States		130	4,443
Other Countries		520	13,855
TOTAL		5,683	160,825
Carpets, Ingrain 2&3 ply in rolls	Yd.		
United Kingdom		5,826	7,058
United States		2,722	2,939
Other Countries		2,163	2,248
TOTAL		10,711	12,245
Carpets, Ingrain 2&3 ply in sqs.	No.		
United Kingdom		956	21,839
United States		71	1,110
Other Countries		241	4,346
TOTAL		1,268	27,295
Carpets, oriental and hand woven in sqs.	No.		
United Kingdom		5,075	187,695
United States		1,111	87,206
British India		2,166	84,050
China		1,518	75,514
Persia		4,921	122,943
Turkey		2,582	68,418
Other Countries		1,114	50,800
TOTAL		18,437	676,626
Carpets, tapestry and velvet in rolls	Yd.		
United Kingdom		136,997	99,574
United States		5,068	7,233
Other Countries		879	884
TOTAL		142,944	107,691
Carpets, tapestry and velvet in sqs.	No.		
United Kingdom		6,589	66,510
United States		37	1,037
Other Countries		262	4,936
TOTAL		6,888	72,483
Cocca carpets, mats, and rugs-value only			
United Kingdom		-	3,241
United States		-	3,099
Other Countries		-	24,062
TOTAL		-	30,402
Mats and rugs up to 3'x6' and runners			
United Kingdom		-	211,436
United States		-	39,593
Other Countries		-	57,976
TOTAL		-	309,005
Totals, Carpets, mats and rugs	\$		
United Kingdom		-	1,063,958
United States		-	177,552
Other Countries		-	521,012
TOTAL		-	1,762,522

Exports of canadian produce are shown in Table 10 by principal countries, quantity and value, the total value in 1924 being \$7,915.

Table 10.- Exports of Carpets, Mats etc, to principal countries for calendar year 1924.

Wool carpets (value only)		
United Kingdom	-	2,780
United States	-	3,651
Other Countries	-	1,484
TOTAL EXPORTS	-	7,915



# -20- SECTION IV. Woollen Goods, N.E.S.

The principal commodities comprising this section are (1) wool felts of all kinds, (2) wool stock (shoddy), (3) wool, pulled, (4) blankets and sweat pads and (5) overgaiters, spats and leggings. The number of individual plants reporting in this section during 1924 was 31 as compared with 33 in the preceding year. Of the plants in operation 22 were located in Ontario, 6 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 been 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.

## Production, 1924

Table 1 presents statistics of production by quantity and value within provinces for the calendar year 1924. Of the total value of output the province of Ontario contributed \$4,106,975 or 71.14 per cent, followed by Quebec with 23.07 per cent, whilst the remaining provinces produced but 5.79 per cent. The item of production showing the greatest value was pulp and paper, maker's felts amounting to \$1,649,077 or a little over 28 per cent, pickled sheepskins being next with a value of \$585,128 or 10 per cent followed in order by pulled wool of the value of \$487,030. Blankets and sweatpads \$414,985, and shoddy etc. with \$410,359 compared with 1923 the value of production in 1924 shows a decrease of \$30,124.

Table 1.- Production in Woollen Goods Mills, n.e.s., by provinces, 1924.

Articles manufactured	CANADA		Ontario		Quebec		Other Provinces	
	Quan.	Value	Quan.	Value	Quan.	Value	Quan.	Value
Felt Goods --								
Felt cloths Yd.	26500	10600	26500	10600	-	-	-	-
Boot and shoe linings "	397697	105865	397697	105865	-	-	-	-
Shoe felts "	24989	62474	24989	62474	-	-	-	-
Harness felts Lb.	20951	8380	20951	8380	-	-	-	-
Hair felts sq.ft.	54061	3241	54061	3241	-	-	-	-
Trimming and lining felts Yd.	513067	134452	513067	134452	-	-	-	-
Padding felts Lb.	10959	3288	10959	3288	-	-	-	-
Pulp & paper maker's felts "	1061612	1649077	451345	759280	610267	889797	-	-
All other felts "	927498	200808	927498	200808	-	-	-	-
Shoddy, mungo and wool extract "	2541836	410359	1867157	265605	674679	144754	-	-
Blankets and sweatpads doz.	72500	414985	72500	414985	-	-	-	-
Blankets, other pr.	35000	230000	35000	230000	-	-	-	-
Blankets, other Lb.	157694	160568	47571	65648	110123	94920	-	-
Wool, pulled Lb.	985146	487030	480357	246853	-	-	504789	240177
Wool, scoured "	478578	270276	478578	270276	-	-	-	-
Wool, waste & noils "	846132	209137	846132	209137	-	-	-	-
Woolen yarns "	37096	9470	37096	9470	-	-	-	-
Pickled skins "	-	585128	-	491235	-	-	-	93893
Overgaiters, spats etc. doz. pr.	12668	153964	10455	129458	2213	24506	-	-
Gloves, cotton " "	154665	277082	154665	277082	-	-	-	-
Box toes pr.	5587761	136720	-	-	5587761	136720	-	-
Patts, flocks and rolls Lb.	996838	41375	100000	5500	896888	35875	-	-
Motor car mats No.	12500	5277	12500	5277	-	-	-	-
Weather strip boxes	40400	17928	40400	17928	-	-	-	-
Slippers pr.	100600	64467	93600	60217	7000	4250	-	-
All other products -	-	121091	-	119916	-	1175	-	-
Total Value of Output -	-	5773042	-	4106975	-	1331997	-	334070



### Capital Investment

The amount of capital invested in this section of the woollen textile industry 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 1924 shows an increase in total of \$766,267, all of which is accounted for by the increase in working capital amounting to \$795,104, the difference representing the decrease in fixed capital amounting to \$28,837. Approximately 66 per cent of the total investment is credited to the province of Ontario, 31 per cent to Quebec and 3 per cent to the other provinces.

Table 2.- Capital investment by provinces, 1924.

Province	Fixed Capital	Working Capital		Total Capital
	Land, buildings, machinery and tools	Materials and supplies on hand	Cash, trading and operating accounts etc.	
	\$	\$	\$	\$
CANADA	4,485,909	1,917,155	1,574,380	7,977,444
Ontario	3,045,824	1,240,464	1,000,533	5,286,821
Quebec	1,403,039	538,596	527,136	2,468,771
Other provinces <sup>1</sup>	37,046	138,095	46,711	221,852

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

### Employment Statistics

Statistics of employment are presented in a series of Tables for the calendar year 1924 as follows:

Table 3. Employees by number, sex and remuneration.

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 1,036 (635 males and 451 females) in 1923 to 1024 (584 males and 440 females) in 1924. Salaries decreased by \$50,212 and wages by \$29,315. The province of Ontario supplied 71 per cent of the total employees and paid 74 per cent of the total of salaries and wages.

Table 3.- Employees, Salaries and Wages, by provinces, 1924.

Classes of employees			CANADA	Ontario	Quebec	Other Provinces
Salaried employees -						
Male	No.		71	51	17	3
Female	No.		29	24	5	-
Total salaries	\$		259,917	178,148	77,169	4,600
Employees on wages -						
Male	No.		513	403	83	27
Female	No.		411	249	162	-
Total wages	\$		769,352	588,427	153,995	26,930
Total employees -						
Male	No.		584	454	100	30
Female	No.		440	273	167	-
Salaries and wages	\$		1,029,269	766,575	231,164	31,530

## Employment Statistics - Cont'd.

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 April when 981 individuals were entered on the payroll and the minimum in the month of August when the number on the payroll was 874. The average monthly employment during the year was 924 of whom 513 were males and 411 were females.

Table 4.- Employment of wage-earners, by months and sex, 1924.

Months	Male No.	Female No.	Months	Male No.	Female No.
January	538	435	July	486	415
February	545	407	August	468	406
March	537	401	September	488	391
April	545	436	October	498	382
May	504	431	November	521	385
June	503	428	December	521	416
Total employment during the year				6,154	4,933
Average monthly employment throughout year				513	411

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 7,503 days and part time for 643 days, whilst plants were idle for a total of 1,278 days. The hours of labour averaged 8.71 per day as against 8.60 in 1923 and 49.84 hours per week as compared with 48.50 hours in 1923.

Table 5.- Working time of plants and employees, 1924.

Number of operating plants	31	
	Totals	Averages
Days in operation -		
On full time	7,503	242.03
On part time	643	20.74
Idle	1,278	41.23
Hours worked by employees -		
Per day or shift	9,420	8.71
Per week	1,545	49.84

## Fuel Consumption

The quantity and the cost value at the mill of the fuel consumed in this section are given in Table 6 for the calendar year 1924. Coal of all kinds constituted 86 per cent of the total cost of fuel. Compared with 1923 the expenditure for fuel shows a decrease of \$16,791 or 18.6 per cent.

Table 6.- Fuel consumption, by classes, 1924.

Classes of fuel	Unit of measure	Quantity	Cost Value at Mill
			\$
Bituminous coal	ton	9,408	56,338
Anthracite coal	"	46	616
Lignite coal	"	689	6,283
Fuel oils	gallon	1,316	500
Gas, artificial or natural	m.c.ft.	323	178
All other fuel (value only)	-	-	9,478
Total cost of fuel	-	-	73,393



### Power Installation

The installation of power by classes and horse power as rated by the manufacturer, is presented in Table 7, for the calendar year 1924. Increases in installed h.p. capacity appear in steam engines of 155 h.p., hydraulic turbines of 45 h.p., electric motors operated by purchased power of 874 h.p. and internal combustion engines of 79 h.p. or a total increase in horse power available for manufacturing purposes of 1,153 as compared with the preceding year.

The cost of electricity purchased during the year 1924 was \$31,496 as compared with an expenditure of \$29,468 in 1923.

Table 7.- Power installed in the woollen goods industry, 1924.

Classes of power	Number of units	Horse power according to manufacturers' rating
Steam engines and turbines	7	455
Oil, gas and gasoline engines	2	79
Hydraulic turbines or water wheels	7	1,036
Electric motors operated by purchased power	229	2,658
Total power for manufacturing purposes	245	4,228
Electric motors operated by power generated by the establishment	35	735
Total electric motors	264	3,393
Boiler installation	11	1,000

### Materials Used.

Table 8 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 1924. The total cost of materials shows an increase of \$22,511 over the preceding year. Wool and rags are the principal items showing higher cost values in 1924 than in 1923. Wool which averaged 32.3 cents per pound in 1923 advanced to 39.4 cents in 1924, whilst rags and tailors clippings increased from 7.5 cents per pound to a little over 11 cents per pound.

Table 8.- Materials Used, 1924.

Kind	Unit of measure	Quantity	Cost Value at Mill
			\$
Wool, domestic in condition purchased	pound	1,337,130	398,976
Wool, foreign in condition purchased	"	599,203	316,192
Wool, foreign and domestic in scoured condition	"	365,124	192,033
Animal hair, all kinds	"	442,785	20,972
Tailors' clippings, rags, etc.	"	3,305,411	364,973
Cotton, raw	"	25,647	7,119
Wool waste and noils	"	211,060	58,329
Cotton waste	"	545,751	67,900
Jute and other waste	"	150,000	3,000
Cotton yarns	"	1,349	674
Jute, ramie or other yarns of vegetable fibre	"	100,000	4,000
Chemicals and dyestuffs (value only)	-	-	35,050
All other materials (value only)	-	-	1,694,721
Total Cost of Materials	-	-	3,163,939

STATE OF NEW YORK

IN SENATE,  
January 11, 1911.  
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MAY 1, 1909.

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Equipment in Textiles 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 9.

Table 9.- Equipment in Woollen Textile Mills, n.e.s., 1924.

Kind		Woollen	Shoddy	Cotton	Total
Sets of cards	No.	28	31	4	63
Width of cards, inches	No.	1,862	1,220	360	3,442
Cylinders to each set of cards	No.	54	41	4	99
Spindles					
Mule spinning spindles	No.	2,340	-	-	2,340
Frame spinning spindles	No.	150	-	-	150
Doubling and twisting spindles	No.	40	-	-	40
Broad looms (50 inches reed space or over)	No.	51	-	-	51
Pickers	No.	-	-	-	37
Garnet machines	No.	-	-	-	11

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 9 and 10 and total exports on page 10 of this report.

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