34-209


REPORT
on the

## WOOLLEN TEXTILE INDUSTRY

in

CANADA


$$
\begin{aligned}
& \text { 1. Woollen Cloths }
\end{aligned}
$$

$$
\begin{aligned}
& \text { 3. Carpets, Mats and Fugs }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Bet7jeubrt redto ho atowbung tebacose bs brho oefa ta }
\end{aligned}
$$

$\qquad$

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

MOTE. - The tatistics published in the present
atatement include only the statistics of the principal products
of uch manufacturing establishments as use Wool as thoir
principal material. Statistics rolating to specific products
are therefore not to be regarded ae comprehenaive, as these
are also found as secondary products of other industries
of the Hosiery and Knit gocds etc., etc.

# TEFAPTMENT OF TMAD AND COMERCE 

DOMTIUN BUREAU OF STATISTICS
UTTAVA - CaNAJA

Dominion Statistician:
Chief, Census of Industru

Fi. Coats, R.A., R.S.S.(Hon.), E.R.S.C.
T. C. Macuherson

THE WOOLLEN TEXTILE INDUSTRY IN CANADA, 1329.

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

1. Woollen Cloths.
2. Noollen 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 7 , woollen yarn mills increased by 7 , carpets, mats and rugs ramained as in 1928, and woolien textile mills, n.e.s. decreased by 1.

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

|  | Noollen <br> cloth <br> mills | $\begin{aligned} & \text { woollen } \\ & \text { warn } \\ & \text { wills } \end{aligned}$ | Carpets mats and rugs | Woollen goods n. e. st | All Woollen textile mills |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CANADA | 44 | 27 | 22 | 26 | 119 |
| Nota Scotia | 2 | 3 | 1 | 1 | 7 |
| 30w 3ruasulck | 1 | 5 | 1 | 1 | 8 |
| Quedes | 12 | 1 | - | 4 | 17 |
| Untario | 29 | 16 | 16 | 19 | 80 |
| Western Provinces | - | 2 | 4 | 1 | 7 |

- Wooller goods, n.e.s. includes - wool felts, wool pulled, etc., wool stock (shoddy) wool waste and noils, etc.
+ 

In view of the tendency towards concentretion in industrial enterprise, a Serses of tables has been prepared presenting in a threefold way the size of estao?ishments 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 amplojed, all within certain specified groups or linitations for the calendar yeers 1928 and 1929. The tables further indicate the novemert bi onerial procurtion and onployment within the industry.

## Woollen C.oth illls.

In 1928 the number of mills in operation were 51 yith a fotal capital inwestment of $\$ 18,274,895$, a gross value of proauction of $\$ 25,062$, 081 and a total em-
 or $95 . \theta$ per cent of the total cepitalinetion and an average investment per eitajish-
 cent of the total production and an aryerege output por ustabiisiment of $\$ 320,419$. In employment 19 establishments had 3,625 persons on the payroll being an average n: ial pe: establistment and 90.72 per cent of the total employment.

In 1923 the number of mills in operation wers 44 with a total capital irvestment of $\$ 20,076,252$ a gross value of production of $\$ 16,241,134$ and a total emplojment of 4,145 . Twenty-six establishments had a capitai s.rvectment of $\$ 13,553.175$ or 27.68 per cent of the total capitalization and an avarage investment per establishment of $\$ 722,045$. Iwenty-one plants had a gross production of $\$ 15,705,944$ or 96.7 per cent of the totel production and an average output per establishment of ${ }^{\text {p }} 747,902$. In employm ment 20 establislments had 3,828 persors on the payroliz being an average of 191.4 per astablishment and 22.3 per cent of the total amployment.

Woolien Cloth Miile, 159.9-7.923.

| Einy Joyees | 1928 |  |  | 2929 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { estin- } \\ & \text { lish } \end{aligned}$ ments | $\begin{aligned} & \text { Number } \\ & \text { of } \\ & \text { Emplcyees } \end{aligned}$ | $\begin{aligned} & \text { 4verage io. } \\ & \text { ci Fmployees, } \\ & \text { per estab- } \\ & \text { lishrient } \end{aligned}$ | $\begin{aligned} & \text { Estal } \\ & \text { Iish- } \\ & \text { ments } \\ & \text { ino. } \end{aligned}$ | Number of mployee No. | Average No of Boployoe per esさab.. is hment |
| Uncer? 0 | 26 | 172 | 3.66 | 16 | 102 | 6.38 |
| 20 to uinder 50 | 6 | 298 | 33.00 | 8 | 215 | 25.37 |
| 50 to ander 300 | 7 | 471 | 67.71 | 9 | 651 | 72.54 |
| 100 to under ? 20 | 4 | 526 | 131.50 | z | 453 | 144.35 |
| 200 to under 500 | 7 | 2.030 | 230.85 | 7 | 2,157 | 308.14 |
| 500 and uver | 1 | 582 | 589.00 | , | 587 | 58\%\%00 |
| IOTAL | 51 | 3.993 | 78.35 | 44 | 4,145 | 94.20 |
|  | Estaby <br> lish.. <br> ments | Anount | Lverag3 <br> Capital <br> per estab- <br> lishment | $\begin{aligned} & \text { Estai- } \\ & \text { Iish- } \\ & \text { mentas } \end{aligned}$ | mount | A-erage <br> Cepital <br> per estab- <br> ijshment |
| Capital Invested -Uncier 50,00050,000 to under 100,000 | 10. | \$ | \% | No. | \$ | \$ |
|  | 23 | 362,047 | $2 \overline{0} \cdot 74 \times 1$ | 15 | 340,639 | 16.047 |
|  | 5 | 375,5\%71 | 75,915 | , | 222, 418 | 71. 139 |
| 100,000 to under 200,000 | 6 | 883, 290 | 147,248 |  | 317,948 | 136,325 |
| 200,000 to under 500,000 | 7 | 2,534,078 | $382.0 \pm 1$ | , | 3,233,472 | 359,275 |
| 500,000 to under 1,000,000 | d | 2,844,980 | 711.245 | 4 | 2,301.548 | 735,58? |
| 1,000,000 and over | \| 6 | 11,270,723! | 1,878, 454 | 7 | 12.600,207 | $1,800,029$ |
| IOTAL | 51 | 13,274, 8\%5! | 853.327 | 44 | 20.018,292 | 454.919 |
|  | $\begin{aligned} & \text { Estub } \\ & 1 \approx \text { sh- } \\ & \text { merts } \end{aligned}$ | Arount | Averame <br> Proluetzon per estabiichrent | Estab 3ish- ncubs | Anount | Average <br> P:oduction <br> pon estens. <br> Tisiment |
| Produedion |  |  |  |  |  |  |
| Under 50,000 | 26 | 271,092. | 10, 42? | 1. 8 | 225,118 | 12,506 |
| 50,000 to under 100,000 | 4 | 285,497 | 71.374 | 5 | 310,732 | 32,02o |
| 100,000 to inder 200,000 | 4 | 557,852: | 139,46: | 4 | 577,345 | 244,336 |
| 200.000 to urider 500.000 | 5 | 3, 853, 017 | 264.772 | 9 | 2,764.982 | 345.928 |
| 500.000 to under 1,000,000 $1,000.005$ and over |  | $\begin{aligned} & 373,421 \\ & 3.520,802 \end{aligned}$ | 77.1986 704.150 | 3 | $1.074,832$ $10,383,35$ | $\begin{array}{r} 658,277 \\ , 731,44 \end{array}$ |
| Orat | 51 | 15,032.081. | 295.335 | 14 | L6. 247,744 | 369,118 |

TEE OOLLK THNPIIE IMDUETRY IH CANADA, 1929
A sumary table showing the principal statistics of each of the four soctions comprising the woollen textile industry and a total for all sections is presentod inerewith for he calendar year 1929 for the Dominion as a wole.

Sumary of Woollen Textile Industry,
oy Sections - 1929.


Compared with 1928 there was a decrease of 1 in the number of establishments reporing, an increase of 4 in the number of male employees on salaries, an increase of 15 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 emplovees, of $\$ 121,876$ in the amount paid to wage-eamers, a decrease in the cost of materials of $\$ 823,526$, an increase of \$192,309 in the velue of production. A decrease appears in the cost of fuel amounting to 30,990 , whilst in horsepower capacivy there was an increase of 2,900 and in capital. investment in increese of $\$ 1,309,895$.

$$
\text { in } 1928 \text { and } 1929 .
$$

## A. comparison by provinces of the principal statistics in woollen cloth mills

 for the calender years 1928 and 1929 is offered in Table l. The number of mills reporting decreased during the period by T, 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 Brunswiak have been combined throughout this report.Table 1. - Princioal Statistics of Woollen Cloth Mills, by Provinces,
1928.

| Principel Statistics |  | Cavada | Ontario | Quebec | Nova Scotia and New Brunsvick. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Establishments | No. | 51 | 34 | 11 | 6 |
| Capital invested | \$ | 118,274,895 | 15,005,679 | 2,563,940 | 605,276 |
| Employees on salaries |  |  |  |  |  |
| Male | No. | 224 | 181 | 24 | 19 |
| Female | No. | 42 | 37 | 2 | 3 |
| Solaries | \$ | 600,201 | 520,902 | 54,195 | 25,104 |
| Emp?cyees on wages(avgelNo.) |  |  |  |  |  |
| Male | No. | 1,935 | 1,571 | 287 | 77 |
| Female | No. | 1,795 | 1,434 | 288 | 73 |
| Wages paid | \$ | 3,163,737 | 2,642,086 | 444,288 | 77,463 |
| Cost of fuel and electricity | * | 369,994 | 280,731 | 76,199 | 13,064 |
| Power employen ${ }^{\text {a }}$ |  |  |  |  |  |
| Units | No. | 868 | 784 | 73 | 11 |
| Capac y | H.P. | -11,063 | 81739 | 1,752 | 512 |
| Cost of materials |  | - 9,270,861 | 7,872,092 | 1,191,477 |  |
| lalus of products |  | 15,062,081 | 12,580,985 | 2,117,782 | 363,314 |
| Valus added by mandfacture | \$ | 5,791,220 | 4,708,893 | 926,305 | 156,022 |

Principal Statistics of Woollen Cloth Mills, by Provinces, 1329

| Principal Statistics |  | CAIADA | Ontario | Quebec | Nova Scotia and $N o w$ Brunswick |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Establishments | No. | 44 | 29 | 12 | 3 |
| Capital invested | \$ | 20,016,292 | 16,382,584 | 2,949,856 | 683,852 |
| mployees on salaries - |  |  |  |  |  |
| Male <br> Female | No. | 235 73 | 193 | $32$ | 10 |
| Femule | No. | 73 | 62 | $8$ | 3 |
| Saleries | \$ | 706,897 | 615,126 | 69,476 | 22,295 |
| Employoes on wages (avge. Vo.) |  |  |  |  |  |
| Male | No. | 2,132 | 1,763 | 311 | 58 |
| Remale | No. | 1,705 | 1,345 | 207 | 63 |
| Wages | \$ | 3,217,407 | 2,710,615 | 445,209 | 61,583 |
| Cost, of fuel and electricity Puwer employed - | S | 367,888 | 279,707 | 76,202 | 11,579 |
| Units | 110. | 1,220 | 1,003 | 211 | 6 |
| Cspacity | H.P. | 12,202 | 9,632 | 2,165 | 405 |
| Cost of materisls | * | 9,231,712 | 7,944,057 | 1,119,726 | 167.929 |
| Value of products | \$ | 16,241,194 | 14,005,835 | 1,320,919 | 314,440 |
| Value added by manufacture | 8 | 7,009,482 | 5,061,778 | 301, 295 | 145,511 |

## production

The production in woollen cloth rills 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 mtario 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 Naritime Provinces $\$ 314,440$ or 1.93 per cent.

Table 2. - Production in Woollen Cloth Mills of Canada,
1929


Oapitel Investment.
The amount of capital invested in the woollen cloth section of the industry in 1925 is shown in Table 3 under two heads:- fixed capital which incluces lend, baildings and fixtures and machinery and tools, and worling capital includirg materials and stocks on hand, finished products, fuel and miscellaneous supplies and cash, trading and operating accourts, etc. Ontario provided 81.84 per cent of the thcual investment, Quebec 14.74 per cent and the ilaritime Provinces 3.42 per cent. Fixed capital increased by $\$ 2,015,340$ over 1928 ; while working capital, more variaile in character, decreased by 4273,943 , or a net increas? ir total investment of \$1,741,397.

Iable 3. - Capitrl Invested by Provinces, 1929.

| Provinces | Iirixed Capital | Vorking Capital |  | TotalCarital |
| :---: | :---: | :---: | :---: | :---: |
|  | Land, buildings, fetc. machinery and tools | Materials and suppli.es and finished products on hend | Cush, traaing and operating accounts, etc. |  |
| CANATA | $12,560,903$ | $5,177,516$ | $\begin{gathered} \$ \\ 2.277,873 \end{gathered}$ | $\begin{gathered} \$ \\ 20,016,292 \end{gathered}$ |
| Nova Scotia and New Brunswick | 353,688 | 142,285 | 187,879 | 683,852 |
| Quebec | 1,880,305 | 688,700 | 380,761 | 2,949,856 |
| Ontario | 10,326,820 | 4:345,531 | 1,709,233 | 16,382,584 |

Envloyment Statistics, 1920.
Statistics of employment are presented in the following series of tables:-
4. Employees by number, sex and remuneration, by provinces.
5. Employmont by months, by numbers and sex.
6. Working time of plants and pmployees.

The number of persons employed, male and ferale, is shown by classes, sex anci 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 or the actual number of months the mills were in operation and not on a basis of 12 calendar morths.

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


## Employment Statistics - Cont ${ }^{1}$.

Statistics of employment by months, as per payroll, in the woollen cloth nills of Canada are shown in Table 5, for the calendar year 1929. The maximum of employment was attained in the month 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 f'emales.

Table 5. - Employment by Months as per payroll, 1928.

| Month | Male No. | Female No. | Month | Mal. 1io. | $\begin{aligned} & \text { Female } \\ & \text { No. } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| January | 2,077 | 1,702 | Juıy | 2,145 | 1,678 |
| Febriary | 2,180 | 1,766 | August | 2,125 | 1,615 |
| March | 2,222 | 1,749 | September | 2,009 | 1,619 |
| April | 2,157 | 1,730 | Octobe: | 2,040 | 1,701 |
| May | 2,202 | 1,753 | Novomber | 1,998 | 1,592 |
| June | 2,004 | 1,647 | December | 1,994 | 1,620 |
| Average monthly employment for the year |  |  |  | 25,153 | 20,172 |
|  |  |  |  | 2,132 | 1,705 |

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 emplovees show an increase from 9.49 hours per day in 1928 to 9.57 in 1929, whilst weekly hours also rose from the pverage of 52.88 in 1928 to 53.77 in 1929.

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

Days plants were in operation
on full time
on part time
Idle
Hours worked by wage-earners
Per day or shift
Per week

|  | 44 |
| :---: | :---: |
| Totuls | Averages |
| 9,580 | 217.73 |
| 1,098 | 24.95 |
| 2,698 | 31.32 |
|  | 421 |
| 2,366 | 9.57 |
|  |  |

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 $p e r$ day, whilst none were employed at the 8 hour dry.

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 hours | 10 hours | over 10 hours | 8 hours <br> or less | 9 hours | 10 hours | Over 10 hours |
| CATADA | - | 2,692 | 1,769 | 25 | - | 59.96 | 39.40 | . 64 |
| Nova Scotia | - | 18 | 32 | - | - | 36.173 | 63.27 | - |
| New Brunswick | - | - | 91 | - | $\cdots$ | - | 100.00 | - |
| Quebec | - | 9 | 721 | - | - | 1.23 | 98.77 | - |
| Ontario | - | 2,565 | 926 | 29 | - | 73.62 | 25.58 | .80 |

## SEOTIUN I. - WOOLLEN CLOMH MILIS

Erployment Statistics - Cont'd.
Table $7(a)$ shows the hours of labour per day and per week for Canada and the prorinces. The statistics relating to hours of labour in columns 1, 2 and 3 are compiled from the number of amployees working specified hours per day in the montin of highest employment whilst those in columns 4 and 5 represent the standard weekly hours of labour in the incustry as reported to the Bureau by each individual establishnent.

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

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

| Provinces | $\left\{\begin{array}{l}\text { potal hours and number of wage-earners } \\ \text { in month of highest employment }\end{array}\right.$ |  |  | Ssandard working hours per week |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ictal | Total wageearners | Average hours per day per waceearner | rotal hours | Averrge hours per <br> wage-earner per week, per establishment. |
| CANADA | 42,223 | 4,490 | 9.4 C | 2,366 | 53.77 |
| Nova Scotia | 472 | 49 | 9.63 | 109 | 51.50 |
| New Brunswick | 910 | 92 | 10.00 | 55 | 55.00 |
| Quebec | 7,291 | 730 | 3.95 | 669 | 55.75 |
| Ontario | 33,550 | 3,620 | 9.27 | 1,533 | 52.30 |

## Fuel Consumption

The consumption of fuel by this section of the woollen textile industry is shom by classes, quantity and cost value delivered at the mill in Table 8. The principal tuel used was jituminous cnal which rose from 42,213 tons in 1928 to 43,506 tons in 1929. The average price of bituminous coal of all grades was $\$ 6.45$ in 1328 , as ugginst $\$ 6.30$ in 1929. Electricity purchased amounted to $\$ 90,329$ in 1928 as sonpared with an outlay of $\$ 95,504$ in 7529 .

Table 8. - Fuel Consumption by classes, quantity and value, 1929.


## SECTION I. - WOKLLEN CLOTH MILLS

## 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 horsenower 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. Eoilers installed for any purpose numbered 63 with a boiler horse power capacity of 7,634.

Table 9. - Power Installation, 1929.

| $\quad$ Classes of Power | Number of <br> Units | H.P.according <br> to manufacturers: <br> rating |
| :--- | :---: | :---: |
| Steam engines and turbines <br> Oil, gas and gasoline engines <br> Hydraulic turbines or water wheels <br> Blectric motors operated by purchased power | 12 | 2,110 |
| Total power used in manufacturing | 23 | 20 |
| Electric motors operated by owned power |  |  |
| Total electric motors | 1,184 | 8,721 |

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. Fool 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.

|  | ```Tnit Of Measure``` | Quantity | Cost Value at Mill or Factory. |
| :---: | :---: | :---: | :---: |
| Domestic rools:- |  |  | \$ |
| Fleece or greasy wools | Pounds | 1,722,808 | 460,679 |
| Scoured, pulled and washed wools | " | 488,810 | 177,972 |
| Foreign wools:- |  |  |  |
| Fleece or greasy wools | 11 | 2,910,598 | 1,044,733 |
| Scoured, pulled and washed wools | " | 2,873,558 | $1,440,440$ |
| Nohair | " | 21,086 | 9,870 |
| Other animal hair | " | 11,005 | 7,945 |
| cotton, raw | " | 392,479 | 74,097 |
| - ags, clippings, etc. | If | 1,007,085 | 135,030 |
| ?oils of wool | 11 | 165,647 | 99,356 |
| Tops of wool | " | 1,287,133 | 809,436 |
| Wool waste | 11 | 877,762 | 186,690 |
| Shoddy | " | 521,238 | 170,683 |
| drtificial silh tons and waste | " | 352 | 206 |
| Silk waste | " | 957 | 273 |
| Yarns of all kinds:- |  |  |  |
| Artificial silk | 11 | 117,278 | 91,667 |
| Cotton | " | 2,222,333 | 356,645 |
| Cotton, mercerized | If | 4,815 | 7,668 |
| Silk and Silk mixed | " | 16,373 | 53,975 |
| Fonllen | " | 26,479 | 33,063 |
| morsted | " | 1,694,938 | 1,817,874 |
| Hohair | " | 803,359 | 952,868 |
| All other materials | - | - | 349,653 |
| Chemicals, dyestut's, and mill supplies | - | - | 350,28: |
| Pater Cost of Materials | - | - | 9,2.1, 212 |

## SECTION I. - WOOLLEN CLOTH MILLS

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 <br> inches | 40 <br> inches | 44 <br> inches | 48 <br> inches | 54 <br> inches | 56 <br> inches | 60 <br> inches | 66 <br> inches | 72 <br> inches <br> 8 | Over |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

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

| 1 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cylinders | Cylinders | Cylinders | Cylinders | Cylinders | Cylinders | Cylinders | Total |
| 18 | 4 | 122 | 58 | 13 | 6 | - | 221 |

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

| Spindles and looms | $\begin{gathered} \text { Woollen } \\ \text { No. } \\ \hline \end{gathered}$ | Worsted No. | Shoddy No. | Cotton No. | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Nule suinning spindles | 71,280 | - | - | 1,300 | 72,580 |
| Frame spinning spindies | 240 | 16,003 | - | 2,040 | 18,280 |
| Doubling and twisting spindles | 2,677 | 4,308 | - | 2,568 | 9,553 |
| Broad loans (50' reed space or over) | 1.128 | 353 | - | - | 1,481 |
| Harrow looms (under 50" reed space) | 52 | 4 | - | 116 | 172 |
| Fand looms | 1 | - | - | - | 1 |

## Other Equipment

Number
Wool combing machines 23
Pickers 48
Garnet machines 11

SECTIUN I. - WOCLLEN CLOTH MIULS
She quentity and value of the imports of wool and its manufactures are presented in lable 11, by principal countries for the calendar year 192. 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.
lable ll. Imports of Wool and its Manufactures by Principal Countries,
1929.

dBCTINA I.-MCOLLET CLOTH MILIS.
.
Table 11. - Inports of Wool and its Nanufactures by Principal Countries, 1929, (Contºd ${ }^{\circ}$


## TOMAT

Yarns and varps composed wholly or in part of wool, etc., imported for the weavinc of wocllen and worsted fobrics, but not including arpets or rugs ( 9 mos.) lb. Thited ningrom
United States
France
Cther Countries
TOMAL
Yame composed wholly or in chief value of merino wool, but not containing silk, ete.
Tnited Kingdom
Belgium
France
United States

## TOTAL

Wholly manuf'actured products -
Woven fabrics composed wholly or in chief nart by weight of wool, etc., imported in the gray or unininisbea condition for the purpose of being dyed or inished in
Canada -
United lingelom
He? gium
France
otter Countries

## MOAL

Woven fabrics, consisting oi cotton warps with wefte $n f$ lustre rool, etc.
United Kingdom
United States
other Countries

TOIAL,
falle 11. - Imports of 1001 and its Mandactures by Principal Countries 1929. (Cont dj).
Articles
Fholly mannelactured products (Cont not exceeding in weight 5 oz . to
the square yard -
United Kingdom
United States
France
Cther Countries
ToTAL
Woven Zabrics composed wholly or in part of wool etc. not exceeding in weight 5 oz . to the sq.yd.- yd. United Kingdom United States
France
Other Countries
total
Kritted f'abrics composed wholly or in part of wool, etc, not exceeding in weight 5 oz , to the square yard United Kingdom United States Other Countries

## TOIAL

Felt cloth, n.o.p.-
United Kingdom
United States
Belgium
Other Countries
totat
Overcoatings -
United Kingdom
Tnited States
France Germany Other Countries

TOTAL
Tweeds -
United Kingdom
United States
France
Germany
Czecho-Slovakia
Netherlands
Other Countries
TOTAL
Worsted and serges including coatings -
United Kingdom
United States
France
Germany
Czecho-Slovekia
Italy
Netherlands
Sweden
other Countries
TOTAL
yd.
yd.
d. d.

- 41

| 64,750 |
| ---: |
| 873 |
| 27,572 |
| 556 |
| 93,751 |
|  |
| 308,307 |
| 1,237 |

23,354
937
18,174
399
42,864
164.485

895
259,856
37,319
462,555

10,501
257
1,150
11,908

7,138
12,048
24,586

$$
878
$$

$$
44,650
$$

1,086,341
4,717
96,811
134,731

$$
114,661
$$

$1,437,261$

3,038,906
35,113 123,068
99,949
17,084
12,287
40,589
3,534,598
3,366,996
9,597,097
70,761
1,121,591
492,215
67,777

$$
82,063
$$

155,797

$$
66,916
$$

21,056
8,719,082 11,673,273

SECTION I. - WOOLLEN CLOTH MLLLS.

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


GEOTCOA I. - NOOLLEA CLOTH NILLS.
Saule 11. - Imports of 1001 aind Its Manufactures by Principal Countries, 1923 (Cont 10 .
Articles
Socks and stockincs wholly or part of
wool, etc., but not containing silk, etc. n.o.p. doz.pr United Kingdom
United States
nther Countries
TOTAL
Underwear, knitted wool valued at $90 \notin$ per
lb or less, (value only)
United Kingdom
United States Other Countrics TUTAL
Underwear, knitted wool valued at more than $90 \phi$ per lb. (value only)

United Kingciom
United States
Other Countries
TOTAL
Clothing, women's and children's outer
garments, woul, (value only)
United Kingdom
United States
France
Other Countries total
Clotring and weriag apparel, n.o.p. composed wholly or in part of wool, (value only) United Kingdom
United States
France
Germany
Jepan
cother Countries
TONL
Blankets, household, n.o. D. not to include horse blankets, etc. United Kingdom united States Germany
Other Countrios
TOTAL
Felt, pressed of all kinds in the web,etc.
United Kingdom
United States
Czecho-Slovalia
Germany
Other Countries
rotal
Pugs, railway, stearer, lounge, automobile, etc. (value only)
United Kingdom
1 b .
b.

166,242
44,099

1 b .

United States
nther Countriss
10 AL
1,095,193

Articlos rucie fron woven fabrics, etce wholly
or in part of wool, ete. (value only)
Urited Kingdom
United States
France
Gormany
Switzerland
Other countries

237,046
290,071
61,967
26,642
615,726

1,359,864
25,007
6,431
13,185
344,623
1,967
1,078
3,430

280,857
29,637
9,346
12,441
31,509
1,723,654

850,703
122,013
35,078
2.7,662

1,035,456

152,029
6,019
36,432
135,878
165,459
103,989
13,510
356,268

12,499
171,547

174,497
314,016
19,872
10,112
1,352
13,311
533-1.60
52,303
1,898

54,790

53,..n0

## 

## 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 Kingdon 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 - |  | \$ |
| United Kinidom | 998,697 | 216,252 |
| Unitel States | 4.733,507 | 1,330,017 |
| Other Countries | 110,812 | 22,320 |
| TOTAL | 5,843,016 | 1,569,080 |
| Wool, scoured or washed - |  |  |
| United Kingdom | - | - |
| United States | 118,990 | 36,375 |
| Other Countries | 1,366 | 408 |
| total | 120,356 | 36,783 |
| Wool, pulled or Sliped - |  |  |
| United Kingdorn | 7,214 | 3,019 |
| United States | 89,091 | 46,542 |
| Other Countries | 30,148 | 15,143 |
| TOTAI | 126,453 | 64,704 |
| Wool Carpets - (value only) |  |  |
| United Kingdom | - | 2,749 |
| United States |  | 6,373 |
| New Yealand |  | 42,817 |
| Other Countries | - |  |
| Total | - | 75,198 |
| Wool Fabrics |  |  |
| United Kingdom |  | 683 952 |
| United States Nertound land | 16,392 | r 20,731 |
| Other Countries |  | - |
| TC'IAL | 16,827 | 22,366 |

- 17 -

SECHIOR I. - WOOLLEA CLOMH MILLS.
Taile 12. - Exports of Canadian Produce by Principal Countries, Calendar Year, 1929.

| Articles and Countries | Quantity | Value |
| :---: | :---: | :---: |
| Wool underwers - (value only) |  |  |
| United Kingdom | - | 22 |
| United States | - | 1,841 |
| Newfoundland Other Countr | - | 9,229 |
|  | - |  |
|  | - | 15,700 |
| Wool clothing, n.a.2. - (value only) |  |  |
| Urited Kingdom | - | 3,44\% |
| Trited States | - | 56,900 |
| Nevfioundand | - | 146,698 |
| St. Pierre and 3iquelon cther Countries | - | 29,216 |
| Cther Countries | - | 49,096 |
| I OTA. L | - | 285,32.2. |
| Tonl manu actures, n.o.p. - (value only) |  |  |
| United Kingdom | - | 2,851 |
| Inited States | - | 50,625 14,444 |
|  |  |  |
|  |  |  |
| Surmary of Exports by Classes - |  |  |
| Row Materiels | - | 1,670,576 |
| Manufacturei goods | - | 464,506 |
| motal | - | 2,135,082 |
| Surmary of Esports by Principal Countries |  |  |
| United Kingeom | - | 229,018 |
| United States | - | 1,529,625 |
| Newfoundland | - | -76,628 |
| New Zealand | - | 42,817 |
|  | - | 29,:16 |
| other Countries | - | 127,178 |
| TOTAL | - | 2,135,082 |

## SBCIION IT. - Woollen Yarns

Statistics of the woollen yarn irdustry in Canada for the calerdar year 1929 form the subject matter of the second section of the Woollen Textile Industry. Table 1 preserts the priacipal Statistics of this section comparativel. for the calonder years 1327, 1928 and 1929.

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

| Principal Statistics |  | 1927 | 1928 | 2929 |
| :---: | :---: | :---: | :---: | :---: |
| Dstablishants recorsine | iso. | 17 | 20 |  |
| Copitel invested | \$ | 9.761,057 | 8,810,695 | 7,609,902 |
| 3unloyees on selarios - |  |  |  |  |
| Nale | Nio. | 44 | 50 | 48 |
| Jomale | 1 | 20 | 27 | \% |
| Salaries | \$ | 173,311 | 181,236 | 145,098 |
| zaplorees on wages, average - |  |  |  |  |
| 18ie | 210. | 714 | 757 |  |
| Female | " | 870 | 1.045 | 1,017 |
| Weges | \$ | 1,117,048 | 1,235,064 | 1,13?,376 |
| Pover instolled - |  |  |  |  |
| Urits | 210. | 1.98 | 217 | 204 |
| Cupactiy | H.P. | 3,240 | 3,908 | 3,103 |
| Cost of fue: | \$ | 99,621 | 77,469 | 35,217 |
| Cost of eiecuricity | \$ | 47,621 | 53,691 | 65,258 |
| Cost of materizis | \$ | 4,455,941 | 4,789,168 | 3,962,096 |
| Volue of products | \$ | 6,944,765 | 7,706,740 | 7,027.242 |
| Tolue alded by manufacture | + | 2,488,824 | 2,917,572 | 3,065,146 |

Production Statistics
The quancity and selling value at the mill or factory of the various yarns and other prodicts manufactured in this section of the industry are shown in Tajle 2 for the Jominion. 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 Cntario alone accounted for 55. 66 per cent of the totai production in the Dominion.

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

| Articles produced | $\begin{aligned} & \text { Unit } \\ & \text { of } \\ & \text { Measure } \end{aligned}$ | Quan 11 ty | $\begin{aligned} & \text { Sellin } \\ & \text { at mill or } \\ & \text { Factory } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Toollen yams | pound | 2,584,430 | 301,828 |
| rorsted yarns | " | 4,629,628 | 4,641,251 |
| Catton yarns | " | 162,216 | 47,497 |
| Wool wasto and noils | I' | 102,047 | 24.913 |
| Wool felts for pulp and paper malcing | " | 119,082 | 187.532 |
| Camets, relvet, etc. cut, pile | lineal yd. | 55,614 | 21,0う2 |
| Cuivets, Axminster, \#ilton, etc, | " | 164.040 | 600,352 |
| Carpets, tapestry, Brussels, etc. | " " | 177, 1.32 | 197,808 |
| Fiarnels |  | 296,815 | 135,967 |
| Botany Jersey Cloth |  | 56,320 | 67.583 |
| Glove, shoe and rubber limings | prund | 55,953 | 44,762 |
| AIl oiller products (valve only) | - |  | 68,693 |
| fieceived for custom mork | - | - | 18,004 |
| Total value of products | - | - | 7,027,242 |

In 1928 the number of factories ir operation mas 20 with a total capitalization of $\$ 8,810,695$, - gross valixe of p:ouluction amountire to $\$ 7,706,740$ anc a total emp? of ment of 1,889. Six establishruents had a total cavital investment of $\$ 7.470,570$ or 84.8 per cent of the total capitalization or an average investraent of $\$ 1,245,095$ per establishment. Five firms reporteu a total production of $\$ 6,008,654$ or 79.1 per cent of the total gross value of production and average output of $\$ 1,219,731$ per establishment. In employment ? establishments had 1,575 persons, beine an average of 225 per factory or 83.4 per cent of the total employment.

In 1929 the number of factories in operation was 2.7 with a total capitalizatio: of $\$ 7,699,902$, a gross value of procuction amounting to $\$ 7,027,242$ and a total emplo... ment of 1:825. Seven establishmen's had a total capital investment of $\$ 5,327.6,586$ or 82.? per cent of the total capitalization and an avarage investiaent of \$903,955 per establishment. Seven firms reported a totai production of $\$ 5,934,025$ or 84 . 1 per cent of the total gross value of production and an avorage output of $\$ 847.718$ per establishment. In employment 8 establishments had 1.541 persons on their pay rolls bsing an averace of 193 per factory or 84.4 per cent of the total exployment.

Tooller Yams



## Capital Investment

The mount of capital invested in the woollen yarn industry in 1929 is shown by itens and provinces ín Table 3. Fixed capital comprisine land, buildings, mackinery and tools, which in 1928 amounted to $\$ 4,205,137$ decreased during the year by $\$ 154,130$ Wiilst morkine capital comprising materials, stocks and supplios on land and cash, trading and operating accounts also decreased by $\$ 555,563$. Total canital, the refore, shows a docrease from 1928 of $\$ 1,110,793$. Ontwrio provided. 83.21 per cent of the total cavital, quebec 12.53 per cent, the laritime provinces .94 per cent and the Nestern provinces 3.32 yer cent.

Table 3.- Capital invested in Woollen Yarn 3fills, by Provinces, 1825.

| Provinces | Fixed Capital | Working Capt tal |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | Iand, buildings etc. machinery and tools | Materials and stocles on hand, miscellaneous | Cash, tradin and operating accounts, etc. | Capital |
|  | \$ | svoplics, etc. | \$ | \$ |
| Maritime Provinces |  |  |  |  |
|  |  |  |  |  |
| Kanitoba and |  |  |  |  |
| British Columbia | 233.271 | 19,938 | 2,633 | 255, 842 |
| CATJADA | 4,551,007 | 2,060,494 | 988,401 | 7,59, 902 |

## Bmloyment Statistics

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

Table 4. - Imployees by classes, number and remuneration by provinces. Table 5. - Mmployees on traces, by months and sex. Table 6.- Moring time of plants and employees.

The number of nersons at enploynert, whether on salaries or wages, is shown by sex ani remuneration, for Canada and tis provinces in Table t. The province of Ontarto fumished 52.1 per cent on we mie em loyees, 89.4 per cent of the females and exponded in salaries and wages, etc. 80.5 per cent of the total for the Dominion.

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

Table 4.- Employees $b_{u}$ Number, Sex and Remmeration, 1929.

| 3naloyment by Classes, etc. |  | CATADA | Ontario | Maritime Provinces and quebec | Tes Lern Provinces |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ```Salaried Imyloyees - Male Tenale Motal Salaries``` | $\begin{aligned} & \text { Ino. } \\ & \text { No. } \\ & \text { \$ } \end{aligned}$ | $\begin{array}{r} 46 \\ 19 \\ 149,096 \end{array}$ | $\begin{array}{r} 38 \\ 17 \\ 124,014 \end{array}$ | $\begin{array}{r} 4 \\ 1 \\ 14,824 \end{array}$ | $\begin{array}{r} 6 \\ 1 \\ 10,260 \end{array}$ |
| Whge-earners, average number - <br> liale <br> Female <br> Total Tages | $\begin{aligned} & 110 \text {. } \\ & 110 \text {. } \\ & \$ \end{aligned}$ | $\begin{array}{r} 741 \\ 1,017 \\ 1,131,976 \end{array}$ | $\begin{array}{r} 452 \\ 909 \\ 907,269 \end{array}$ | $\begin{array}{r} 258 \\ 82 \\ 195,655 \end{array}$ | $\begin{array}{r} 21 \\ 26 \\ 29,052 \end{array}$ |
| 70:AL- <br> Eriployees, Male <br> Trolorees, Female <br> Salaries and Mases | $\begin{aligned} & \text { INO. } \\ & \text { iNo. } \\ & \$ \text {. } \end{aligned}$ | $\begin{array}{r} 789 \\ 1,036 \\ 1,281,074 \end{array}$ | $\begin{array}{r} 490 \\ 926 \\ 1,031,283 \end{array}$ | $\begin{array}{r} 272 \\ 83 \\ 210,479 \end{array}$ | $\begin{array}{r} 27 \\ 27 \\ 39,312 \end{array}$ |

The Woollen Yarn Incustry in Canada, 1929.
Table 5 prescnis statistics of wasemeamin employeos iamonth of highest employment woring specified hours per day for Canada and che proviaces with percentages of persons vorling at each spocified daily rate. From the table following it will be noted that the prevailing daily rate was that of the groups of wagomearners worining 9 and 10 hours per day, the percentajos beinc 50.97 and 25.14 respectively, The next in order was the 8 hour grou yitis 10.99 per cent whilet in the group wring wore than 10 liours i乞 was 2. SO per cont.

Table 5.- Hours morled per day by Wagemeamers in month of hi hest employment for Canada and the provinces, 1929.

| Provinces | ITumioer of mage-eamers in month of higitest earologment wor:ing er day of |  |  |  | Percentage of wage-enruers morine per day of - |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C.1THOA | 212 | 1,175 | 485 | 56 | 10.00 | 60.95 | 25.14 | 2.90 |
| Novn Scotis | - | 7 | - | - | - | 100.0 |  |  |
| Now Branswicly | - | 18 | 15 | - | - | 54.55 | 45.45 | - |
| nuebec | -- | - | 278 | 52 | - | - | 84.24 | 15.76 |
| onterio | 212 | 1,087 | 192 | 4 | 14.18 | 72.71 | 12.84 | . 27 |
| Manitoba | - | 9 | - | - | - | 100.0 | - | - |
| Eritisic |  |  |  |  |  |  |  |  |
| Coluraia |  | 55 | - | - | - | 100.0 | - | - |

Table 5(a) shows the hours of labour per day and per rect for Canada and the provinces. The statistics relating to hours of labour in coluans 1, 2 and 3 are compiled from the number of employees worling specified hours ver day in the month of hi chest employment mililst those in colums 't and 5 represent the standard weekly hours of labour in the industry as reported to the Bureau by eacin individual establishment.

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

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

| Provinces | Total hours and mumber of wageeamers in month of highest em- <br> Siandard morking hours woynent |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Iotal <br> hours | Total <br> wage- <br> carners | Avernge hours per day per паёеearners | Total hours | Average iours per wageearner per weel, per estrolishent |
| OAITADA | 17.718 | 1,929 | 9.19 | 1,411 | 52.26 |
| IVove Scotia | 63 | 7 | 9.00 | 162 | 54.20 |
| Nerr 32Wnswicls | 312 | 33 | 9.45 | 271 | 54.20 |
| queber | 3,326 | 330 | 10.73 | 55 | 55.00 |
| Ontririo | 13, +11 | 1,495 | 8.99 | 826 | 51.62 |
| Wanitcba | 81 | 9 | 9.00 | 49 | 49.00 |
| British Colunbia | 495 | 55 | 9.00 | 48 | 48.00 |

$-22$
Hnployment Btatistics - contld.
Table 6 presents the s'atistics of employment auring lg29 accordin; to nuber and sex of wase-carner, by months. The maximum of employment was reached in the month of February mith a dotal of 1,847 employees of wrom 743 mere males and 1,104 mere females. The minimum of employment was reached in September with a total of 1,532 employees, of whom 681 were males and 851 were females. The averace employment for the year mas 741 males and l, 017 females.

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

| Months | Males No. | $\begin{aligned} & \text { Temales } \\ & \text { No. } \end{aligned}$ | Morths | $\begin{aligned} & \text { Kales } \\ & \text { No. } \end{aligned}$ | $\begin{aligned} & \text { Temales } \\ & \text { ?:o. } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| January | 737 | 1,089 | July | 734 | 985 |
| February | 743 | 1,104 | August | 703 | 918 |
| March | 723 | 1,092 | September | 581 | 851 |
| Aril | 739 | 1,073 | October | 702 | 897 |
| May | 741 | 1,047 | Noveraber | 742 | 927 |
| June | 743 | 1,006 | December | 717 | 964 |
|  | Total <br> Aver | loy:sent onthly ex | the year ent during | $\begin{array}{r} 8,705 \\ -741 \end{array}$ | $\begin{array}{r} 11,953 \\ 1,017 \end{array}$ |

Working Tine. - Taule 7 shoms the number of days that lants were in operation during 1929, whether on full time, part time or idle, together with the hours of lavour worked by employeds per day and per meek. Fours morked per day decreased from 9.20 in 192 do $^{2} 9.19$ in 1929.

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

| Number of operatine plants | 27 |  |
| :---: | :---: | :---: |
|  | Total | traces taunisin |
| Days plants wore in operation- |  |  |
| On full time | 5,279 | 195.52 |
| On part time | $796$ | 29.48 |
| Iale | 2,133 | 79.00 |
| Hours worked by employees |  |  |
| Per day or sinift | $2{ }^{2} 48$ | 9.19 |
| Per week | 1,411 | 52.26 |

## Fuel Consumption

The cuantity and value of the fuel consumed by the moollen 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 durin the year amounted to $\$ 39,217$ as compared with an outlay of $\$ 53,691$ in 1928 .

Table 8.- Fuel Consuration by Classes, 1929.

| Classes of Puel | Unit of Measure | Quanity | Cost Value in Factory |
| :---: | :---: | :---: | :---: |
| Bituminous Coel | ton | 9,917 | 63,065 |
| Liemite Coal | ton | 43 | 185 |
| Gasoline | gallon | 145 | 37 |
| Mood | cord | 732 | 2,731 |
| Gas, artificial or natural | n.c.ft. | 399 | 240 |
| Pruel oil | - | - | - |
| Electricity | - | - | 39,217 |
| Total cost of Fuel and Electricity | - | - | 105,475 |

(3) $5419 x$

## - 3 - <br> Pover Installation

The ower installed in moollen yarn mills in 1929 is shown in Thole 3 by (a) the classes of power, (b) the number of units in each class and (c) the tot horseporor accocaing to manufacturer's ratins.

Tabl. 9.- Fomer Installation, 1.929.

Number of units

Gorse Porer accor
ing to menufacturers 1 rating
181
30
133
2,753
3.103

2,585

Materiols Used
The cuntity and cost value at the mill of the various materials used in the manufacture of woollen and worsted yam, is presented in lable lo for the calendar jear 1929. Raw mool remresented 3.79 per cent, tops and waste and noils 70.58 per cent, and woollen and porsied jarns 12.78 per cent of the total cost of materials used during the year.

Table 10.- Naterials used in Woollen Yam Mills, 1929.

| Kinds of Naterials | Unit of lieasuro | Quantity | Cost Vailue at the Factory or Mill |
| :---: | :---: | :---: | :---: |
|  |  |  | \$ |
| 700l, domestic, - In the grease | Pound | 197,225 | 61,443 |
| Washed, scoured and pulled |  | 13,743 | 4,305 |
| Wool, forei ${ }^{\text {m, }}$, In the grease | " | 159,039 | 69,132 |
| Washed, scoured and pulled | " | 34,502 | 15,+51 |
| Wool waste | " | 39,336 | 8,714 |
| Tool noils | " | 676 | 325 |
| Cops | " | 4,554,080 | 2,793,149 |
| Shoddy, mugo and mool extract | " | 77,395 | 15,981 |
| cotior, raw | " | 420,484 | 85, 05 |
| Tailors clippinss, racts, etc. | " | 4,882 | 488 |
| Wooilen yarns | " | 717,336 | 193,640 |
| Worstod jorns | " | 388,409 | 312,504 |
| Oction yams |  | 20,597 | 59,414 |
| Artificial sill yern |  | 23,649 | 25,355 |
| Linen yams | , | 28,384 | 6,670 |
| Jute ramie, or otizer yarns of vegetable fiore | II | 292,931 | 38,48\% |
| Sill, waste (artificial) | " | 6,774 | 1,764 |
| Morino jarns | " | 31,556 | 42,144 |
| Chenicals and dyestuffs (value only) | - | - | 154,252 |
| All other materials (value onl-j) |  | - | 52,77, |
| - Mota? cost of Materials |  |  | 3,252,09 |

## Equipment

The couipment of the 27 mills roporting is shown in Table ll.
Mable 11. - Equipnent installod in Moollon Yam Kills, 1929.

?


#### Abstract

$-24-$ SJCTION III. Carpets, "ats and Ruas


The statistics of the nanufactures of carnets, mats and russ are dealt with in Section 3 of t.ee woollen textile indusiry. In 1923 the number of individual establishments reporting was 22 of wich 10 were in Ontario, and 1 in each nf Move Scotia, New Srunsrick, Alberte, Sasiatcheran, Yanitoba and 3ritish Columbia.

## Principal Statistics

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

Sumnary of Principal Statistics, 1927, 1928 and 1029.


## Production

The guantity and value of the principal items produced in the camet iactories of tie Dominion are chown by provinces in Table l. Over 96 ner cent of the total value of nroluction belon to the province of Oatario. Carpets contributed 21.4 per cent of the total value of output, rugs and squares 69.8 per cent and otier mets, etc., to 8.8 per cent.

| Articles manufactureủ | CATA IA |  | OITARIO |  | $\begin{aligned} & \text { Other } \\ & \text { Frovinces } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quar. | Value | Quan. | Talue | Volue only |
|  |  | \$ |  | \$ | \$ |
| Carnets, Aurinster, Tilton <br> linent yds. $378,82411,102,951 \quad 378,8241,10$ ?, 51 |  |  |  |  |  |
| Scures, mats and runcers:- |  |  |  |  |  |
|  |  |  |  |  |  |
| A ninster, milton, etc. Vumber Azminstar, Tilton, etc. lineal jds. | 1,108,392 | 479,201 $2,050,240$ | 35,256 $1,108,392$ | $\begin{array}{r} 470,01 \\ 2,250,240 \end{array}$ | - |
| Smyrna, Jrussels, etc. " " | 102,897 | 223,251 | 102,387 | 223,251 | - |
| Vunber | 43.565: | 141.952 | 43,555 | 14, 052 | - |
| Cocos mats and matting All other mets and ruas | - | 97.085 | - | 37,085 |  |
| All other protucts, custom |  |  |  |  |  |
| Worv, otc. | - | 305,323 | - | 232,132 | 73,791 |
| $こ 0=A L$ | - | [5,434,555 | - | $5,354,102$ | [80,451 |

Caroets, "ats and Rugs, 1929.

## Size of Mstablishments

In 1228 the number of establishments reporting was 22 with a total canital invostment of $\$ 5,072,610,-$ a gross value of production of $\$ 5,009,240$ and a total employment of 1,137. Tree establishments had a capital investment of $\$ 5,616,067$ or 92.5 per ceat the totol canitalization and an averace investment of $\$ 1,872,022$ oer establishnent. Govir firms had $=$ total production of $\$ 4,524,238$, being 32.3 per cent of the total outnut and an average of $\$ 1,155,059$ per establishment. In employment 4 firms renorted 977 persons on the payrolls or 85.9 per cont of the total employment, witi an average omploymunt aer estaclishrent of 244 .

In 1929 the number of establishments reporting was 22 with a totol cenitel investment of $\$ 6,446,734,-$ a zross value of production of $\$ 5,434,555$ and a total employment of 1,293. Three establishments had a capital investment oi $\$ 5,920,854$ or 31.9 ner cont of the total capitalization and on averaje invaotment of $\$ 1,973,631$ per estabishment. Two firms had a total production of $\$ 3,951,320$ being 72.7 por cent of the total outnut ant on average of $\$ 1,975,560$ per establishment. In employment 3 firms reported 1,078 persons on the payrolls or 83.4 per cont of the total employment with en everage employment per establishment of 359 .

|  |  | 1928 |  |  | 1929 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Tstab-lisiments | Total Cenital. | Average Capital per establishment | $\begin{aligned} & \text { Istab-1 } \\ & \text { lisht } \\ & \text { ments } \end{aligned}$ | Total <br> Capital | Avaro Capital par essiblishmunt |
| Crnitsl Invested |  |  |  |  |  |  |
| Urier 50,000 | 16 | 13?.571 | 8,723 | 16 | 151,427 | $0,+64$ |
| 50,000 to under 100,000 | ? | 1.50,536 | 75,268 | 2 | 184,430 | 22,215 |
| 100,000 to " 200,000 | 1 | 166,436 | 165,436 | 1 | 189,083 | 18?, ก83 |
| 200,000 to "1 500,000 | , | 9 | - | - | - |  |
| 500,000 to II 1,000,000 | 1. | 990.221 | 998,221 | - |  |  |
| 1,000,000 and over | 2 | $4,617,845$ | 2,308,323 | 3 | 2,920,834 | $1,973,631$ |
| TD 5 AL | 22 | 6,072,610 | 276,028 | 22 | 6.446 .734 | 293.033 |
|  | जstab-Iishmonts | Total <br> Employees | Average Ermployees | Tstab <br> 1ish- <br> ments | Totel <br> Imployeos | Avurege Emplovees |
| Imployees | $\because 0$. | \$10. | No. | $\because 0$. | $\because 0$. | No. |
| Under 20 | 16 | 36 | 6.0 | 16 | 84 | $5 \cdot 25$ |
| 20 to under 50 | 2 | 64 | 32.0 | 2 | 69 | 7.50 |
| 50 to under 100 | 1 | 54 | 64.0 | 1 | 62 | 62.00 |
| 100 to under 200 | 1 | $10 \%$ | 108.0 | 1 | 178 | 170.00 |
| 200 to under 500 | 1 | 265 | 265.0 | 1 | 305 |  |
| 500 and over | 1. | 540 | 540.0 | 1 | 595 | 505.00 |
| IOIAL | 22 | 1,137 | 51.7 | 22 | 1,293 | $50^{\circ} \cdot 6$ |
|  | Istse- <br> lish- <br> inents | Total Value of Production | Average Value | Istabm <br> lish- <br> ments | Totel Valud of Production | Averare Value |
| Production | To. | \$ | \$ | 310. | 耎 | \$ |
| Unator 50,000 | 15 | 159.989 |  | 15 | $129,231$ | $8,615$ |
| 50,000 to under 100,000 | 1 | 53,482 | 53,482 | 2 | $114,509$ | $57,305$ |
| 100,000 to under 200,000 | 1 | 141,531 | $1^{1}+1,531$ | 1 | $1.45,346$ | $14,56$ |
| 200,000 to under 500,000 | 2 | 655,934 | 342.397 | 1 | 227,000 | $227,000$ |
| 500,000 \%о weer 1,000,000 | - | - |  | 1 | $867.049$ | 367,049 |
| 1,000,000 and over | 2 | 3,933,244 | ,259,12? | 2 | 3,251,320 | 1,075,560 |
| $\pm 0 \mathrm{~T}$ [ | 22 | 5,002,240 | 227,693 | 22 | $5,434,555$ | 247,075 |

## Ganital Inrostmant

The caritel invostmont in the carpet, mat and mo industry is shown by itoms and rovinces in mable 2. The valuc of invustud canital incroased over lode by $\$ 374,124$ or noarla 6.16 por cont. Ontario's moportion of tho total invostmunt was aporximately 99 or cont.

Teule 2. - Capital Investud by Provinces, 129.

| Itums of Cajital | Cavaza | OTMAİO | Othor Frovinces |
| :---: | :---: | :---: | :---: |
|  | \$ | \$ | \% |
| Firua Caital - |  |  |  |
| Lank, buildinss, fixtures, mechinoty, etc. | 2,530,165 | 2,501,646 | 37.519 |
| Toring Canital - | 1,570,436 | 1,553,238 | 17.348 |
| Sash, trading ard operatins accounts, etc. | 2,337,083 | 2,321,551 | 15,532 |
| TCALT CAFITAL | 6,445,734 | 6,376,335 | 70,309 |

## Broloyment Statistics

Statistics relating to emloyment are shown in tho folloring series of tables for the calendar year 1229:~

> (3) Imployees, salaries and wages by provincus.
> (4) Ampoyment by montis.
> (5) Working time of plant anc employees.

The province of Ontario ave employment to 1,259 aersons in a total of 1,293 for the Jominion or aporoxinately 97.4 per cent, while the arrount paid for salaries and wages was 97.7 per cont of the total for the Dominion.

The average number of ware-earners employed in any industry is calculated on the actual number of months the mills were in oneration and not on a vasis of 12 calendar montins.

Table 3. - Bmoloyment jy numer, sex and remuneration in 1929, by Provinces.

| Employees by classes |  | CA ${ }^{\text {P }}$ J $]$ | OUTASIO | $\begin{aligned} & \text { Other } \\ & \text { Frovinces } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| 3uployees on salaries $\begin{array}{l}\text { Nale }\end{array}$ <br> No. |  |  |  |  |
|  |  |  |  |  |
| Ferale | so. | 42 | 41 | 1 |
| Total Salaries | \$ | 461,350 | 446,905 | 14.455 |
| Employees on wages, average number - No.Male |  |  |  |  |
|  |  |  |  |  |
| Fomale | No. | 383 | 370 | 13 |
| Total mases | 中 | 1,002,325 | 982,691 | 19.634 |
| Total enmloyees - |  |  |  |  |
| Vale | $\because \%$. | 368 | 848 | 20 |
| Fenale | No. | 425 | 411 | 14 |
| Salaries and wases | \$ | 1,463,605 | 1,429,596 | 34,089, |

The number of persons employed in the industry is shown for each month of the year divided accordine, to sex. Imployment reached its meximum in Narch with a total of 1,136 persons of whom 727 were males and 409 females. The montin of lowest employment was Septernber when there were on the payroll a total of 1,021 of whom 661 were meles and 360 were females, the average monthly employment was 696 males and 383 iemales as shown in Taivle 4.

Toble 4. - Buploytaent by llonths and Sex, 1929.

| Vontins | $\begin{aligned} & \text { Nale } \\ & \text { No. } \end{aligned}$ | $\begin{aligned} & \text { Temale } \\ & \text { No. } \end{aligned}$ | Montins | $\begin{aligned} & \text { Male } \\ & \text { Yo. } \end{aligned}$ | $\begin{gathered} \text { Female } \\ \text { Yo. } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| January | 709 | 409 | July | 679 | 362 |
| Pejrwary | 726 | 399 | Auvest | 676 | 351 |
| March | 727 | 409 | Sentember | 661 | 360 |
| Anril | 697 | 330 | October | 683 | 366 |
| $\cdots$ | 693 | 363 | Tovember | 700 | 385 |
| Iuno | 691 | 367 | December | 690 | 331 |
|  | Ave | tal emp tily emo | t during t <br> t daring | $\begin{gathered} 8,332 \\ 696 \end{gathered}$ | $\begin{gathered} 4,555 \\ 383 \end{gathered}$ |

## armorment Statistics - Contid.

Operating time of plents and of employees is given in Table 5. The perating time is shown under 3 heads: (1) full time, (2) part time and (3) idle. The averace 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. Weelly working hours of employees show a decrease from 48.53 hours in 1928 to 47.91 hours in 1929.

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


Table 6 presents statistics of wate-eaming employees in month of hignest employment working specified hours per day for Canada and the provinces with percentages of persons working at each specified dally rate. From the table following it will be noted that the prevailing daily rate for the Dominion was that of the group of wageeamers working 9 and 10 hours per day, the percentanes being 39.56 and 50.90 respectively. The next in order was the 8 hour group with 5.41 per cent whilst in tho group worling more than 10 hours the nercentage was 4.03 .

Table 6. - Hours wor ed per day by mage-earners in month of highest emplojrnent for Canada and the Provinces, 1929.

|  | Vumber of wage-earners in month oi highest employment worlins per day of - |  |  |  | Percentage of wase-eamers working per day of ~ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Provinces | $\begin{aligned} & 8 \text { hours } \\ & \text { of less } \end{aligned}$ | $\stackrel{9}{\text { hours }}$ | $\begin{gathered} 10 \\ \text { hours } \end{gathered}$ | $\text { Over } 10$ hours | 8 hours or less | $\begin{gathered} 9 \\ \text { hours } \\ \hline \end{gathered}$ | $\begin{gathered} 10 \\ \text { nours } \end{gathered}$ | Over 10 hours |
| CAIADA | 63 | 462 | 503 | 47 | 5.41 | 39.65 | 50.90 | 4.03 |
| Maritime Provinces | 28 | - | - | - | 100.00 | - | - | - |
| ontario | 29 | 458 | 503 | 47 | 2.57 | 40.54 | 52.62 | 4.17 |
| Testern Provinces | 6 | , | - | - | 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 colums 1, 2 and 3 are comiled rrom the number of employees rorking srecilied hours por day in tiae montio of highest armoloznent whilst those in columns 4 and 5 represent tine standard weekly hours of labovr in the industry as renorted to tio Bureau by each individual establishment.

The average daily hours of labour computed on the above basis for the Dominion gas 2.51 hours per dey and 47.31 hours per week.

Table $6(a)$. - Zours of Labour per day and per week, for Canada
and the Provinces, 1029.

| Provinces | Total hours and number or wazeearners in montr of hichest employmont |  |  | Standard worling hours per week |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Total } \\ & \text { Eours } \end{aligned}$ | Total <br> Tageearners | Average hours yer day ner wage-earner | Total Ěours | Avelage ins. Der <br> wase-eerner <br> per week <br> per establishmen |
| CATA ${ }^{\text {a }}$ | 11,036 | 1,165 | 3.51 | 1,054 | 47.91 |
| Naritime Provinces | 224 | 28 | 8.00 | 32 | 46.00 |
| Catario | 10,778 | 1,127 | . 56 | 778 | 46.62 |
| Testern Provinces | 84 | 10 | 8.40 | 184 | 45.00 |

## 



yE

## Truel Consumption

The umantity and value of fuel consumed by the industry in $192 ?$ is shown in Taole 7 by classes. Compared with 1028 tinere was an increase in the total cost of fuel Which is mainly accounted for by the greater auantity of bituminous coal renoited. File cost on electricity burchased amounted to $\$ 20,741$ in 192 as commered witis $\$ 18,538$ in 1728 .

Table 7. - Fuel Consumption by classes, 1229.

| Slasses of fuel | Trit of !?easure | Quantity | Cost value at Factory |
| :---: | :---: | :---: | :---: |
|  |  |  | \$ |
| Bituminous coal | ton | 11,287 | 66,210 |
| Anthracite coal | 11 | 43 | 565 |
| Coke | " | 18 | 233 |
| Gasoline | gallon | 202 | 56 |
| Fuel oils | - | 85617 | 374 |
| Gas, artificial and natuial | m.c.İt. | 598 | 560 |
| All otner faels | - | - | 371 |
| Slectricity | - | - | 20,741 |
| Sotal Cost of Fuel | - | - | $8 \%, 710$ |

## Power Installation

The kinds of power installed in the carpet factories of the Dominion in 1329 are shown in Table 3. मlectric motors operated by purchased power surplied over 77.1 ver cent of tive total manuacturing horse power installation in 1929 , as $\therefore$ omivared with 76.8 ner cent in 1223 .

Sixteen boilers witin a horse power capacity of 2,368 were renorted in $192 ?$ as áainst 15 boilers of 2,516 horse nower in 1923 .

Tajle Ü. - Pomer Installation, 1929.

| Classes of Porer Instelled | Yumber of Jnits | تorse power canacity according to manufocturers' reting |
| :---: | :---: | :---: |
| Steam ensines and turbines | 4 | 482 |
| $0 i 1$ gas and gasoline engines | 1 | 3 |
| Slectric motors onerated by purchased power | 260 | 1,530 |
| Totel power useci in manuf: cture | 265 | 2,115 |
| Slectric motors orereted by nower owned | 125 | 1,250 |
| motal electric motors | 385 | 2,880 |
| Boilers installed | 16 | 2,368 |

## Garpets, Mats and Iuss, 1329

## Materisls Used

Tie principal meteriels used in the industry in ly2g ne shomn by quntity and cost value in muble 9. The total volue of motarinls used amounted to $\$ 2,550,630$ of whicin woollen and worste3 farns constituted $\$ 1,650,333$ or 64.3 yen cent. Ohis value renrescints an invease rom the 1923 rovort of $\$ 150,742$ on aproximately 10 per cant.

Table ?. Materials Used by Kinds, 192.

| Vinds of materlals used | Trit of Neasure | Quantit.: | Cost Value |
| :---: | :---: | :---: | :---: |
| Woollen yams | gomas | 1,073,156 | 1,747,321 |
| "orsced yarns | 1 | 605,134 | 513.012 |
| Cotton yarms | " | 1,209,884 | 1440.715 |
| Einen Jarns | 11 | 962 | 245 |
| Artiricial silk yarns | 11 | 3.183 | 2,734 |
| Jute, ramic and other yarm of vonetable fiore | 1 | $2,115,972$ | 289,526 |
| Cinemicals and dyestufis (value only) | - | - | 104,131 |
| All otier materials (value only) | - | - | 61.396 |
| Cotal Cost of Coterials | - | - | 2,559,580 |

## Equimment in Carpet, 位 and Fuॄ Factories

The equirment renortes in the campe, wht and rus fuctories of the Doninion in 129 was as follows:-


## Imports and Ixnorts

Gablo 10 nresents stritistics of tire imnorts and oxnoits of cametr, mats and mass by rincinal countriss ior t? a calenar year lo2e. The total ralue of imports was $\$ 3,377,331$ and the value of manvfactaver noducts $\$ 5,434,555$, so that for evew dollar of product manafacture? in canede pe import soods to the value of siitü-twc cents. The United fingiom sumplied th, 501,713 of the value of imonts For consumption or 44.4 por cont, the Tnited stetes $\$ 279,103$ or 3.27 por cent and all Other Countives $1,50,515$ oi about 47 . 33 per cont.

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

| Articles | Quantity | Value |
| :---: | :---: | :---: |
|  |  | \$ |
| Varpets, Axminster in rolls |  |  |
| United Kinçiom | 75,937 | 185,796 |
| United States | 1,306 | 3,913 |
| Otmer Countries | 11,227 | 29,289 |
| TOEAL | -9,470 | 208, $99 \%$ |
| Carpets, Axminster in squares |  |  |
| United Kingdom | 9,479 | 203,586 |
| Unitod States | 427 | i?, 356 |
| Germany | 1.836 | 33,914 |
| Othar Countries | 3.019 | 40,775 |
| TOTAL | 15,561 | 389,531 |
| Sarpets, Srussels and Tilton in rolls |  |  |
| United Finglom | 18,154 | 37,521 |
| United States | 734 | 2:053 |
| Other Countries | 05 | 1,987 |
| $\therefore 0=A L$ | 19.593 | 41,571 |
| Carpets, Erussels, \%iltor in squares |  |  |
| Unitea Xinedom | 5,360 | 157.480 |
| Tnited States | 179 | 8,858 |
| Trance otrer countries | $\begin{array}{r} 387 \\ , 734 \end{array}$ | 41,755 |
|  |  |  |
| - OTAL | 7,660 | 216,081 |
| Sarpets, theraia ? \& 3 mly in rolls |  |  |
| Tnited Kinedom | 12,185 | 15,2.11 |
| United States | 17,171 | 6,353 |
| Other Countries | 14,993 | 18,414 |
| motac | 24, 349 | 3, 278 |
| Carpets, ingrain? \& 3 ply in squares |  |  |
| Unitea Kingaom | 1,754 | 35,237 |
| United States | 2.314 | 13.902 |
| Erance | 3,654 | 48,506 |
| Otier Countries | 1,874 | 23.645 |
| T $0=A L$ | 10,096 | 125,290 |
| Carpets, oriental and hand woven in squeres |  |  |
| Unitel Zinmom | 5.458 | 394.892 |
| Thited Statas | 921 | 151,730 |
| Eritic! India | 1,490 | 128,473 |
| Cinat | 858 | 54,867 |
| Persia | 3,445 | 214,155 |
| Turney | 6,250 | 262,405 |
| Freece | 3,064 | 204,500 |
| Ot.e: Countrics | 1,549 | 61,103 |
| TOIAL | 23,155 | - 72,228 |

$\square$
$\square$

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Carpets, hats and Rues, 1929.
Rable 10. - Imports of Carpets, Nats and Rugs by Principal countries for Calendar Year 1929 (Cont:d.).


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, otc., to Principal Countries for Calendar Year 1929.

Mool carpeta (value only)
Minted Firedom
Unitod Etates
New Zealanc
Other Sountries
IOTAI

| quantity | Value |
| :---: | :---: |
|  | $\$$ |
| - | 2,749 |
| - | 6,373 |
| - | 42,817 |
| - | 23,259 |
| - | 75,193 |

```
SICMIOI IT. Woollon Foods, a.e.s.
```

In 1929 the numjer of establishments renorting was 25 with a total capital investment of $\$ 8,580,289$, a gross value of production of $\$ 6,475,608$ and a total employmeat of 1,141 . Seven estailishments had a total capital investment of \$7,562,127 or 87.12 per cent of the total canital investment and an average of $\$ 1,030,304$ ner establishment. Seven establishments reporteu a gross value of production of $\$ 5,324,367$ or 82.2 per cent of the total production, beine an average outnut of $\$ 760,674$ per establishment. In employment 9 firms had 993 persons on the payroll being an average of 110 nersons per estailishment and 87 per cent of the total employment.

In 1928 the number of establismonts reporting was 27 with a total capital investment of $\$ 8,375,122$, a gross value of production of $\$ 6,909,229$ and a total eriployment of 1,2?5. \$1eht establishments had a total canital investment of $\$ 7,219,524$ or 86.2 por cent of the total canital investment and an average of $\$ 902,440$ per establisinment. تight establishments reported a gross value of production of $\$ 5,483,257$ or 70.3 per cent of the total production, beine en averacg output of $\$ 585,407$ ner estaklishment. In employment 9 firms had 1,072 versons on the payroll being an averaze of 119 persons per establishment and 87.5 per cent of the total employment.

Woollen Goods, n.e.s.

|  | 1928 |  |  | 1923 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital Invested | $\begin{aligned} & \text { Istab- } \\ & \text { lish- } \\ & \text { ments } \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { Total } \\ \text { Capital } \end{array}$ | Arerage <br> Capital per <br> establish- <br> ment | $\left\lvert\, \begin{aligned} & \text { Mstab- } \\ & \text { lish- } \\ & \text { ments } \end{aligned}\right.$ | Total <br> Capital | Averase <br> Capital ner <br> establish- <br> ment |
|  | No. | \$ |  | No. | \$ |  |
| Uncier 50,000 |  | 198,149 | 22,017 | $?$ | 200,953 | 22,328 |
| 50,000 to under 100,000 | 5 | 399,283 | 56,547 | 7 | 473,735 | 67,677 |
| 100,000 to under 200,000 | 4 | 558,166 | 139,541 | 3 | 443.474 | 147.825 |
| 200,000 to under 500,000 | 3 | 778,842 | 259,514 | 4 | 1,258,529 | 314,632 |
| 500,000 to under 1,000,000 | 2 | 1,085,778 | 542,889 | - | , | - |
| 1,000,000 and over | 3 | 5,354,304 | 1,784, 358 | 3 | 6,303,598 | 2,101,199 |
| EOI A | 27 | 8,375,122 | 310,189 | 26 | 8,680,289 | 333,857 |
|  | Estab- | Total | Average | Estab- | Total |  |
| Employees | $\begin{aligned} & \text { lisin- } \\ & \text { ments } \end{aligned}$ | Employees | Mmplo:-ees | $\begin{aligned} & \text { lish- } \\ & \text { ments } \end{aligned}$ | Employees | Empl oyees |
|  | 170. | ITO. | To. | N0. | 2 O | \%o. |
| Tncer 20 | 18 | 153 | 8.5 | 17 | 148 | 3.71 |
| 20 to under 50 | 3 | 108 | 36.0 | 4 | 129 | 32.25 |
| 50 to under 100 | 2 | 114 | 57.0 | 2 | 117 | 58.50 |
| 100 to under 200 | 2 | 266 | 133.0 | 2 | 273 | 135.50 |
| 200 to under 500 | 2 | 584 | 292.0 | I | 474 | 47.00 |
| -0-at | 27 | 1,225 | 45.4 | 26 | 1,141 | 43.90 |
|  | Zstab- | Total | Average | Estab- | Total | Average |
| Production | lish- sents | Value of Prodaction | Value | $\begin{aligned} & \text { lis:- } \\ & \text { ments } \end{aligned}$ | Value of Production | Value |
|  | $\because 0$. | \$ | \$ | No. | \$ | + |
| Under 50,000 | 3 | 255,343 | 28,371 | 9 | 237,846 | 26,427 |
| 50,000 to under 100,000 | 5 | 333, 422 | 78,534 | 6 | 372,117 | 62,019 |
| 100,000 to under 200,000 | 5 | 777,207 | 155, +41 | 4 | 541,778 | 135,444 |
| 200,090 to under 500,000 | 4 | 1,088,571 | 272,143 | , | 1,218,987 | 304, $7+7$ |
| 500,000 to under 1,000,000 | 3 | 2,212,066 | 737.335 | 2 | 1,595,461 | 797,730 |
| 1,000,000 and over | 1 | 2,182,530 | 2,182,680 | 1 | 2,510,419 | 2,510,419 |
| $=0=A L$ | 27 | 15,903,223 | 255,897 | 26 | 6,476,608 | 243,100 |

The princinal comocities comprising tais section are (1) wool felts of all.
Winds, (2) vool stock shoddy, (3), wool pulled, ('t) blanlets and sweat pads. The mumor of individual plants renorting in tisis section during 1 n29 was 26 as comered with 27 in the receding year. $0:$ the plants in operation 19 were located in Ontario, 4 in Quejec and 1 in each of the movinces of 3ritish Columbia, New 3runswick ana Zova Scoile. The statistics for the last nentioned provinces have combined to rrevent disclosure of individual information and are presented under the ieading of "Otier Provinces" througlout the tables of this report. For the orincinal statistics relatinc to this section see colum 4 of page 2 of this report.
 the rovince of ontario comiributed $3,657,61<$ or 53.4 per cent follomed by uedec win 44.0 fer cent, whilst the remaning rovinces produced $<.6$ ier cent. The item of producion showing ise crestest value was pulp and pater maker's feits amountint to 43,493 , obe or neruly 94 per cent
 pulled with a value of $4<77,655$.

$$
\text { Table 1. - rodution in wollen Goods Mille, } n \text {. } \text {. s., oy Trovinces, } 1929 .
$$

| Articles Manufactured |  | CHNADA |  |  |  | - Other Frovinces |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | quantity | Value | \&uastizy | Vaiue | quantity | Vapre | uuntity | Velue |
| Qelt Goods - |  |  |  |  |  |  |  |  |  |
| bros ielrs | Yard | 259,501 | 160, 165 | - | - | <59,501 | 160, 165 | - | - |
| farness felis | Found | 1<5,040 | 51, 247 | - | - | 1<5,040 | 51, 447 | - | - |
| hair felts | Yard | 5<3, 212 | 174,555 | - | - | 5<3, $2<2$ | 174,555 | - | - |
| Trimming and linıng ieits | Yard | 100,030 | 73,45= | - | - | 100,038 | 73,452 | - | - |
| Fading iolus | Yarc | 609, 274 | $164,<60$ | - | - | 609, 274 | 164, $<60$ | - | - |
| Fulf and paper maker's lelts | Found | <,064,990 | 3,493,062 | <,100,754 | c, 250,306 | $634,<36$ | 1,243,476 | - | - |
| All other felt goods | Found | 135,6<0 | 55,795 | ,100, 15 | 6,250,306 | 135,6<0 | 55,795 | - | - |
| Shoddy mungo and wool extract | Found | 3,753, <09 | 576,599 | 448,443 | 90, 178 | 3,304,046 | 470,421 | - | - |
| Swoat pads | Dozen | 5,436 | 29,4<2 | - | - | 5,406 | 29, 4<2 | - | - |
| islankets | - | - | 525,054 | - | <29,140 | - | 296,714 | - | - |
| roos, pulied | Found | 016,603 | 297,655 | 45,000 | 14,000 | 465,005 | 172,026 | 306,596 | 111,649 |
| $U_{\mathrm{R}}$ Lolstering material | - |  | 62,030 | - | - | - | 62,838 | - | - |
| Insuling material | Found | 46,500 | 17,639 | - | - | 46,500 | 17,639 | - | - |
| woollen yarns | Found | 6,5,50 | 1,3<6 | - | - | 6,750 | 1,3<6 | - | - |
| Fickled skins | Lio2en | 30,709 | <43,541 | 1,215 | 9, 120 | 19,395 | 176,097 | 10,079 | 56.924 |
| Bath roues | Found | 9,695 | 34,560 | - | , | 9,695 | 34,568 | - | - |
| Box toes | leir | 6,069, 194 | 167,078 | 6,029,994 | 167,078 | - | - | - | - |
| batts, ilocks and rolls | Found | 1, < $5,<,<70$ | 4t,960 | 1, - 5 < , <70 | 46,960 | - | - | - | - |
| weather sulip |  | - | 46,163 |  | - | - | 46,163 | - | - |
| 1.11 other products |  | - | 0<,561 | - | 34,901 | - | 47,600 | - | - |
| Custom and repair work |  | - | 163,040 | - |  | - | 163,040 | - | - |
| FOTAL VALUE OF Cutaum |  | - | 6,476,608 | - | <,850,443 | - | 3,457,612 | - | 160.553 |

```
                    - 34-
```



## Capital Investment

The amount of corital invested in this section of the woollen texile iwastry is shown br arovinces in Table 2. It is also rosented vader two heads:Fived Capital and worling canital, the tirst of wiflimeluaes lanc, buildinas, fiutures, machinery and tools, and the second materials and stochs on hand, fel and miscellanoous sumblies on hand, and casn, trading and operatins accounts, and bills receivable. The investment in 1329 shows an increase in total of $\$ 305,157$. Approximately 52.9 ner cent of the total investment is credited to the urovince of Oatario, 45.2 per cont to Quebec and 1.9 per cent to t'a other provinces.

Table 2. - Capital Investment by Proviaces, 1929.

| Frovince | Tized Capit | Toreins Cavital |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Land, Juildines machinery tools | Paterials and suphlies on hand | Cash, traking ald oberating accounts, etc. |  |
| CATA 2 A | $5,000,8 \geq 9$ | $1,648,016$ | $1,131,384$ | $8,680,250$ |
| Onterio | 2,824,002 | 886,457 | 887,260 | 4,597.719 |
| Quebec | 3,040,774 | 670,068 | 203,770 | 3,920,612 |
| Otiner Provinces 1/ | 36,113 | 91,491 | 34,354 | 151,558 |

1) Includes Nove Scotia, Yew Brunsriack and Sritish Columbia.

## Tmoloymont Stotistics

Statistics of employneat are nresented in a scries of Tables for the c:Ionlar year loze as follows:-

Table 3. Emploveas by number, sex and remuneration
Table 4. Employeas by months and sex
Table 5. Oneretine time of plents and ermpoyces.
The number of persons employed as ner nayroll is sinown by sex and romuncration in rable 3. The number emoloyed fell from 1,225, (500 mones and 425 fomalos) in 1328 to 1,141 ( 575 malos and 265 females) in 1920. Salaries decreased by $\$ 51,795$, while wages increased by $\$ 23,405$. The province of ontirio sumplied 51 ner cent of the total employees and paid 55.2 per cent of the total of salaries and waces.

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

Taile 3. - Enployees, Salaries and Tages, oy Provinces, 1929.

| Classes of 3mplorees |  | CATADA | Ontario | Quebec | Other <br> Provinces |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Salaried employees - |  |  |  |  |  |
| Male | 270. | 82 | 50 | 29 | 3 |
| Female | No. | 22 |  |  |  |
| Total Salaries | \$ | 277.973 | 176,027 | 97.086 | 4,260 |
| בmrloyees on wages .. |  |  |  |  |  |
| Nale | Yo. | 794 | 308 | 366 | 30 |
| Female | T0. | 243 | 115 | 128 |  |
| Total Tages | \$ | 900,765 | 485,803 | 394,578 | 20,384 |
| Iotal Imnloyees - |  |  |  |  |  |
| Male | No. | 376 | 448 | 305 | 33 |
| Fomale | Yo. |  | 6 ${ }^{134}$ | 131 | - |
| Salarios and "akes | \$ | 1,173,738 | 662,430 | 431.654 | 24,644 |

The number of wage-earners employed in this sectior by months and sex is shown in Table 4. Imployment was at the maximum in the month of November when 1,095 individuals were entered on the nayroll and the minimum in the month of Anil when the number on the payroll was 975. The average monthly emplorment duririb the yoar was 1,037 of whom 794 were males and 243 were females.

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

| Morths | $\begin{aligned} & \text { Male } \\ & \text { No. } \end{aligned}$ | Female No. | Months | $\begin{aligned} & \text { Nale } \\ & \because 0 . \end{aligned}$ | Female IVO. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| January | 786 | 248 | July | 754 | 240 |
| Eebmiary | 789 | 242 | August | 756 | 241 |
| Jarch | 762 | 220 | September | 829 | 244 |
| April | 745 | 230 | October | 817 | 248 |
| May | 747 | 234 | November | 836 | 257 |
| June | 753 | 236 | December | 769 | 253 |
|  | tal en eraz゙き | $\begin{aligned} & \text { it durin } \\ & y \text { employ } \end{aligned}$ | e year <br> timoughout | $\begin{array}{r} 3,343 \\ 794 \end{array}$ | $\begin{array}{r} 2,893 \\ 243 \end{array}$ |

The working time of plants and employees is shown in Table 5. The operatins time of plants whetier on full or part time and tise number of days the plants were idle are given by totals and averames. Full time onerations were carried on for 252.23 days and nart time for 19.69 days, whilst plants were iale for a tatal of 32.08 daty. The hours of labour averased 9.15 per day as asainst 9.04 in 1928 and 50.54 hours per weck, as compared with 50.74 hours ir $172 \%$.

Table 5. - Torking time of plants and employees, 1029.


Table $F$ presents statistics of wage-earning employees in montin of hi hest employment working specified hours per day for Canada and the provinces with norcentages of persons working at each specified laily rate. Jrom the table inollowing it will be noted that the prevailing daily rate was that on the zroups of wace-earmers working 9 and 10 hours oer day, the vercentages being 33.53 and 53.04 respectively. The next in order vas the 8 hour group with 12.58 per cent whilst the grouvs worleine more than 10 hours aggregated less than 1 per cent.

Table 5. - E. 0 urs worked ner day br wace-earners in ronth of highest employment Ior Canada and the Frovinces, 1929.

|  | Tumber of wage-eamers in month of hisiest emplorment working per day of - |  |  |  | Percentage of waeke-earners worlting per day of - |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Provirce | $\begin{aligned} & 8 \text { hours } \\ & \text { or less } \end{aligned}$ |  | 10 <br> lnows | Orer 10 hours | 8 hours or less | $9$ | $\begin{aligned} & 10 \\ & \text { hours } \end{aligned}$ | $\begin{aligned} & \text { Over } 10 \\ & \text { hours } \end{aligned}$ |
| CAVAIA | 3.47 | 392 | 520 | 10 | 12.58 | 33.53 | 53.04 | .85 |
| "aritime Provinces | - | 23 | - | - | - | 100.00 | - | - |
| Quebec | - | 15 | 544 | - | - | 2.58 | 97.37 | - |
| Ontario | 17 | 340 | 76 | 10 | 25.66 | 59.34 | 13.25 | 1.7 |
| "estern Provinces | - | 14 | - | - | - | 100.00 | - | - |

[^0]
## Gmolozment Statistics - Cont'

Table $6(a)$ shows the hours of labour per day and mer weelr for Canada and the orovinces. The statistics lelntinm to hours of labour in columns 1,2 and 3 are compiled from the number of emloyees worlins specified hours per day in the month of hignest emoloment whilst those in column 4 and 5 represent the standard weely hours of labour in the industry s reonrted to the Eureau by each individual establismment.

Zie avenage baily hous of laboun comoteh on tho tove casis ion the Dominion "as 942 hours en dan and 50.54 nours per meel.

Table $5(\mathrm{a})$. - Zours of Lahour per day and ner week, for Canada and the Provinces, 1.2?.

| Srovinces | Total hours anc number of wageearrers in month of hitgest emoloyment |  |  | Standa per we | worting hours |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Motal hours | Total <br> waseearners | Averase hours ner day per wage-earner | Total hours | Averace hours per wafe-calner per week ner establishment |
| CALARA | 11,009 | 1,169 | 9.42 | 1,314 | 50.54 |
| Meritime Provinces | 207 | 23 | 9.00 | 103 | 51.50 |
| Quebec | 5,575 | 559 | 9.97 | 221 | 55.25 |
| Ontario | 5,101 | 573 | 8.90 | $9+2$ | 49.58 |
| Testern Provinces | 126 | 14 | 3.00 | 18 | 48.00 |

## Fuel Consumption

The quantity and the cost value at the mill o? tine fuel consumed in this section are eiven in Table 7. for the calendar year 192?. Coal of all l-inds constituted over 30 per cont of the total cost of fuel. The cost of electricity以uichased amounted to $\frac{3}{3} 3,529$ in 1928 as comparod with an expenditure of 中2?,750 in 120 .

Table 7. - Tuel Consumpion, ry Classes, 1529.

| Classes 0: Fuel | Tnit of <br> Veasure | Quentity | Cost Value |
| :--- | :---: | :---: | :---: |
| at Mill |  |  |  |

## Fower Installation

The instrllation of power by classes and horse power as rated by the manumoturer, is resented in Table f. fo: the calendar year 1029. An increase,in installe h. p. capacity for manufacturin purposes, of 2,718 h. n. over 1028 will de notec raich is accounted for br the increase in hydraulic turbines and electric not ors.

Iable 3. - Power installed in tie Toollen Goods Industry, I. E.S. - Ing.

| Olassor ai Power | $\begin{aligned} & \text { Yumber } \\ & \text { of Units } \end{aligned}$ | Horse nower according to manufacturers' rating |
| :---: | :---: | :---: |
| Steam enctines and tur ines | 2 | 90 |
| Cil, sas cnu gesoltre eupines | 2 | 163 |
| \#rrulic turbines or \#ater wheels |  | 3,361 |
| Blociric motors onerated br purchased nower | 231 | 2,692 |
| -otal power for mamiacturine purposes | 242 | 6,812 |
| Blectivic motors operated by power generated by the establisment | 201 | 1,776 |
| Eotal electric motors | 432 | 4,468 |
| 3oiler installation | 15 | 1,160 |

## Naterials Used

Table fives the quantity and cost value at the mill or factory of the veincinal materials used in this section of the moollen textile industry in ln?? The total cost of natorisls shows an increase of \$146,082 over the oreceding year.

Table 9. - Vaterials Used, 1929.

| Kind | Unit of Neasure | Quantity | Cost Value a.t ! !ill |
| :---: | :---: | :---: | :---: |
| Tool, domestic: in tie grease wasted or scoured | Pound | $\begin{aligned} & 34,047 \\ & 76,767 \end{aligned}$ | $\begin{array}{r} 7.812 \\ 25,516 \end{array}$ |
| Tool, Coreim: in the grease | " | 2,211,26 | 910,801 |
| washer, scoured and nulled | " | 1,133,251 | 621,256 |
| Autmal hair, e.ll Finks | " | 543,852 | 47,075 |
| -cilors' clippins, rass, etc. | " | 5,269,023 | 350,912 |
| cotton, raw | " | 605,987 | 34,552 |
| Tool vaste and noils | 4 | 539,268 | 61,388 |
| Sheepst-ins | Yo. | 358,538 | 481,973 |
| Jute and otiler vaste | Pound | 150,000 | 3,000 |
| Cotton yern | " | 1,362,350 | +53,017 |
| Cotton linters, waste, etc. | " | - | - |
|  | - | - | 27,342 |
| 311 other materials (value only) | - | - | 254, 382 |
| Sotel Cost of Vaterisls | - | - | 3,348,836 |

Equipmont in Eextile vills, 3. S.
The equipmont in mills for the menulactare of tio various classes of goods made in tiis section of tre woollon textile industry is resented in Table 10.

Iable 10. - En iment in Woollea Textile ills, T. I. S., 1029.

| ind |  | 70011 en | Cotton | Shoddy | Fotal |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Stes of cards | $\because$ | 41 | 4 | 23 | 74 |
| Soimiles wale soimare snimdles | $\bigcirc$ | 6.250 | - | - | 6,250 |
| Frame snimir suinales | \%0. | 350 | - | - | 300 250 |
| 3roed looms (50 incies reed soace or over) | $\bigcirc$ | 117 | 11 | 1 | 131 |
| zectrers | T0. | - | - | - | 41 |
| Comot macirines | $\because 0$. | - | - | - | 6 |
| Other mac ines | 150. | - | - | - | 2 |

## Imports and Pxoorts

Statistics relatine to imports Z̈or consumption and to exroits of Canadian monace for the calendar year are not surficiently indicated in t e trace classidention to permit of twoulaion, out the valizes of such are included under tctal. irnorts of wool and its products on pases 11 to 16 and total exnorts on anes 17 a2? 18 of tiis report.

## YOVA SCOIIA

Oxford Manufacturins Co．Lid．
St．Croix \％oollen Vanufacturine Co．Ita．

Oxiord
st．Oroix

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J．A．Eumphrey \＆Son，Lid．$\quad 30 \pi z 6$ ，wonc ton

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Jose h Elenchette
Talter 3lue ：So．Itd．
＂etiot \＆Trere
Albort 7 ．Vorrison
Fator venatacturing Co．Lta．
itarick $\because$ sollon rills，i $\ddagger$ ．
－anolaon Paquin
Pioduits Acricoles Ltü．，（Euqene Gakne）
Se，Uenay Soimers tta．
Collins \＆Ailemein or Canarde Ltd．
－irurso Flour and Toollen＂ills
2．Z．H1，Trenholrville．
B．E． 41 ，South Jutiam
Taterville
Qap St．Ignace
Zrownsbur
7 Eelviaere St．，Sherbrooke
Tarwick
St．Gabriel de Brandon
Setabetchouan
Cilicoutimi
Farninam
Thurso
OTTAZIO
‥ 2．Cleroux
Clarence Creek
3ancroit
117？Ting St．Test，Toronto
3racebridge
The 3arrmore Clotin Co．It À．
Pertn
Perth
Victoria St．，Sincoe
Stratiroy
Almonte
Campbelliford
Peterboroum
Flesherton
Zespeler
Ben Miller，（ $\overline{\mathrm{B}} \mathrm{\lambda} .44$ ，Goclerich）
Glen Tilliams
35 Tilliam St．．．，Lindsay
？．气．\＃l，Unionville
507 colleze Avonue，Toronto 3
F．O．3ox \＄405，Chesley
131 Athol Street 䏛st，Oshawa
Paris
Eacrle Street，Preston

## Senfrew

Almonte
256 \＃est $\%$ ill Street，3rantford
Qiristie ？Jupont Streets，moronto 4
Almonte
R．R．${ }^{H} 1$ ，Preston
lerrickville
Woolstock

## Tirms Yanufacturins Toollen Yarn

NOYA SCOTIA

Jis．Creelman ？Sons
A．ㅅ．：Vachherson
Sarrin ton Toollen vills
yewton ills
Roclrli：（S．ス．\＃l，Lansdowne）
Main St．，Earringion，才．S．

## 

Bricss ard Litile
Carleton County Foollen＂ills
Speedy \＆7avilson
Golden Grove Toollen rills
？．Cown，utd．

York＂ills
239 Main Street，Wooustock
Vine St．，St．Stemen
Golden Srove
Dort Jlgin，N．3．

## Pennan's Jimited, (:IIl? "E)

Madoe Toollen Mils
A. Ti. Jastwooil

Aked es Co. Ltd., (Cueraitē by Patons and
Beldmins Zimited)
Doninion Woollens and Torsteạs Limited
Dunaville $\quad 0$ Ilen Mills, Limited - Dumville
Znittors Limited
Janes ${ }^{\text {a }}$ Gordon
Gushol Caryet \& Forsted Spimis, Kills, Lta.
E. C. Nagner

Duminion Tooliens aind Forsteds Lta.
Ponman's Limited ( $\because$ ill \# $\%$ )
Fenmen's Jimited (Mil \#? )
Jewlants and Co. Ltu.
Dominion Toollens and persted tta.
Surritts Fapids Woollen Killa Ztd.

St. Tyacinthe

ComALIO
Vadoc
Baltimore

EJB mupont Stront, Foronto
Peterborough
(F. O. 338 St. James St., Montreal

Rink Street, Deterborourh
Athens
83 Neeve Street, Guelph
(Carpets and Yarns).
Newton
Milton
Paris
Waterford
Galt
Crillia
Burwitts Bamide

32Irtisy colvinbla
B. 0. Torsted 8311 s lizited

25 Montreal Street, Victoria.

## YHITCBA

Feirfield and Sons
Fums Hamuracturine Carvets, Mats and Iucs

MEIt 3500SSMOK

Masitime sug Torics, Lid.

Contawio Tus Yorits
-. I. Eaton
Farding Caroets Ltd.
Canada Rug Co. (T. C. I. Seldwin)
Familt on Rue Toris (Allan Srass)
Therien anu C'ompany
Furco Fersian Iuy Kenovatins Co.
Veteran Rus Teaving Co.
Srinton Carpet Co. Iti.
Sovurs Matting \& Carpet Co. Itc.
Emvire Fig Mills
Lonald "crinnon \& Sons
The Toronto Carpet Vanwacturing Co. Ltd.
Cnitec Jus Teavine Co.
Tovelty fue Co.
Fonarul Tatorr and roecte 00.

153 Vork Street, Familton
128 Union St., Preston
3rantfora
98 Carling St., London
171 York Sireet, さanilton
374 St. Andrew Street, Ottawa
166 Duciess Street, Toronto
1201 A. Queen Street I., Toronto 3ox 1065, Peterborough
Coburg
\#1 Erant Street, St. Catharines Box \#284, Coboure
1179 Tine St. Test, Joronto
125 Ewart Avenue, Toronto?
3'3-353 Cerlaw Ave., Tolonio 3
547 Dalmerston Blvd., Toronto.

1ATIOO3A
Capital canoet \& Roe sanufacturitas go. itd.
545 Arlingtor Street, Timnipes.
SASYACO STHAT
Texille Feaving \& Oaroe oleaning サorics
406 20th S reet mest, Saslatoon.
A.3 IRTA

Valcary Carpet \& Buas lffgrs. (1). A. Stodiart)
Rear 919 17t, Ave. T., Calgory.

## BETMIS COLTBIA

Vencouver 2luff Zug. Co. (Tred'r. S. Lockett) 806 Test l/theve. Vencouver.

## 2HOTA SOOTIA

Tindsor
Tool Pulling

Goneolidatad Bendering Oo．

Joun Virdie \＆Son，Jta．

Qea．3．Tackson
Berloritr at 5oe，Zta．

Montreal．3larket Co．

Zoffan 3ros．Ltd．
E．Leadley 2 Co．
Eronto Wool．Scourins 0 ．
Ganacian Consoliasvod Felt Co．Itd．
Kenmoor Kills Tth．
Dose Felt z Ynitting Co．Etd． The Rumpel Ielt Co．Utd．

Parrits So Spencer（Canada）Ltd．
Siantford Will stoclr Co．
Z．niッe ．．．vol Stock do．
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3issiner and co．

53 Trinity St．，Eoronto Tool Pullins
396 Queen St．T．，Toronto
Tool vullins
2 Marle St．Moronto Tool Pulling
st Yarsaret Ave．，
Kitchener Tool ielt coods
Arnprior tool felt goods
Perth Mool felt goods
60 Victoria Strect， Kitchener
Lottridge St．， Eamilton
31 jarvis st．， 3rantiord
51 Stuart St．Test， Uamilton
$\begin{array}{ll}\text { Uamilton } & \text { Shoddy } \\ 122 \text { Togan Ave．，Gronto Shoddy }\end{array}$
9 Poster Place，Moronto Shodiy
Preston Shocidy
Simcoe Shoday
201 Fiont St．E．，Moroato
Sinoddy
Almonte Shodey
737－73 ring st．Test， Toronto

Horse clothing ont
25？Wiagare st．，Tovonto Sinoddy
486 Tellineton St．T．， Toronto Sinody

SaIMISE COHUC3IA
355 Second Ave．T．，
Vancouver
Tool PuIline


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