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#### CANADA

DEPARTMENT OF TRADE AND COMMERCE PERTY OF THE

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DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

GENERAL MANUFACTURES BRANCH

#### REPORT

ON THE

# ARTIFICIAL AND REAL SILK INDUSTRY

IN

CANADA

1943



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# DEPARTMENT OF TRADE AND COMMERCE DOMINION BUREAU OF STATISTICS GENERAL MANUFACTURES BRANCH OTTAWA - CANADA

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### ARTIFICIAL AND REAL SILK INDUSTRY IN CANADA, 1943

The Silk Industry in Canada is divided into two branches, Real Silk and Artificial Silk. Due to war conditions, the Real Silk section of the industry has ceased to be of importance, and the statistics presented in this report reflect essentially (1) the basic production of three types of artificial silk yarns, as follows: viscose, from wood pulp, acetate, from cotton linters, and nylon, from nylon flakes, and (2) the spinning and weaving operations of firms whose materials are largely artificial silk. It is unavoidable that there should be included minor hosiery and fabric knitting operations, but all firms entitled to be classified as knitters, whether using artificial silk or not, are assigned to the Hosiery and Knit Goods Industry, the statistics for which are given in a separate report.

With further regard to the problem of presenting statistics for the Silk Industry, which contains both the basic production of continuous filament artificial silk yarns, and their later consumption by weavers of artificial silk fabrics, it should be noted that imported rayon staple fibre is also spun into yarn and later used in weaving. This rayon staple fibre, which is produced in short lengths, and must be spun into yarn like natural textile fibres, is consumed not only by firms classified under the Silk Industry, but also to a very considerable extent by cotton mills. These mills spin largely for their own weaving needs, but a percentage of the spun rayon yarn they produce is sold to other establishments. Cotton mills also consume continuous filament artificial silk yarns, which they weave into fabrics, either alone or in mixtures. This means that important artificial silk yarn and fabric production is an integral part of the Cotton Industry. For this reason it has been thought desirable to show cotton mill production of this nature in a supplementary section following table 6 of this report. Table 6 gives in as much detail as possible the production of fabrics, yarns, etc. in the Silk Industry only.

It may also be interesting to note that, in addition to rayon staple fibre, it is necessary to import continuous filament yarns to supplement home production.

In the year at present under review, 1943, reports were received from thirty-three establishments. Twenty-three of these were located in Quebec, nine in Ontario and one in New Brunswick.

The gross value of yarns produced for sale, fabrics, etc. amounted to \$50,440,088, an increase of \$2,384,531 or about 5 per cent as compared with the previous year. Employment was given to 10,920 persons, a decrease of 168 or 1.5 per cent, but the payroll, \$13,714,158, represented an additional disbursement to salaried employees and wage-earners of \$674,579 or 5 per cent. Materials used cost \$19,454,469, an increase of \$1,114,759 or 6 per cent. Capital invested totalled \$50,361,261, which was an enlargement of only \$82,006 or less than one per cent.

Fabrics woven from artificial silk yarn, and from artificial silk mixed with other fibres, represented the greater part of the production of the artificial and real silk industry. Fabric woven entirely from continuous filament artificial silk yarn totalled 44,834,713 yards valued at \$21,213,918 in 1943 and 51,177,690 yards with a value of \$23,673,054 in 1942. The use of spun rayon is increasing and fabrics spun from this type of artificial silk yarn were reported to the extent of 6,834,268 yards worth \$3,235,383 in 1943 as against 6,403,346 yards valued at \$2,595,650 in 1942.

Rayon staple fibre was used to the extent of 4,045,405 pounds worth \$1,379,186. Under purchased yarns consumed, continuous filament viscose, acetate and bemberg together totalled 7,260,688 pounds worth \$5,742,995, spun rayon (including spun rayon mixtures), 1,251,642 pounds worth \$856,202, and cotton, 1,852,875 pounds worth \$1,161,547. Dyestuffs, chemicals, etc. used cost \$2,826,863, the large total being partly due to the use of chemicals in the conversion of wood pulp, etc. into artificial silk. Due to the fact that only one establishment in each case carries on basic production operations, it is impossible to show the consumption of wood pulp, cotton linters and nylon flakes. However, it should be mentioned that in 1943 a shortage of cotton linters necessitated the experimental production of acetate from wood pulp.

Table 1. - Principal Statistics, 1923 to 1943.

| Year                  | Estab-<br>lish-<br>ments | Capital<br>Invested | Em-     | Salaries<br>and Wages | Cost of<br>Materials<br>Used | Gross Value of Production |
|-----------------------|--------------------------|---------------------|---------|-----------------------|------------------------------|---------------------------|
|                       | No .                     | \$                  | No.     | \$                    | \$                           | \$                        |
| 1923                  | 7                        | 4,594,313           | 1,457   | 1,224,036             | 2,677,229                    | 5,044,968                 |
| 1924                  | 10                       | 5,744,502           | 1,210   | 978,686               | 2,486,845                    | 4,381,234                 |
| 1925                  | 11                       | 9,224,224           | 1,727   | 1,364,857             | 3,361,035                    | 5,483,363                 |
| 1928                  | 16                       | 26, 159, 703        | 3,933   | 3,441,549             | 4,638,717                    | 10,897,273                |
| 1929                  | 23                       | 28, 278, 657        | 4,372   | 3,825,796             | 6,091,124                    | 14,476,080                |
| 1930                  | 25                       | 30,506,060          | 5,393   | 4,718,590             | 7,633,329                    | 17,808,598                |
| 1931                  | 23                       | 32,205,207          | 6,273   | 5,758,995             | 6,482,197                    | 18,187,492                |
| 1932                  | 24                       | 28,021,412          | 7,036   | 5,756,865             | 7,858,104                    | 19,864,843                |
| 1933                  | 29                       | 30, 192, 870        | 7,801   | 6, 138, 532           | 7,795,542                    | 22,754,969                |
| 1934                  | 29                       | 34, 192, 892        | 9,220   | 7,535,972             | 9,553,932                    | 25,879,059                |
| 1935                  | 33                       | 35,063,023          | 10.088  | 8,371,037             | 10,946,739                   | 28,045,340                |
| 1936                  | 35                       | 34,947,643          | 10,189  | 8,877,373             | 10,732,371                   | 26,930,821                |
| 1937                  | 29                       | 34, 135, 176        | 10, 246 | 9,099,437             | 10,453,196                   | 27,871,292                |
| 1938                  | 28                       | 31,780,203          | 8,922   | 8, 147, 841           | 8, 882, 157                  | 23,871,992                |
| 1939                  | 26                       | 32,343,433          | 8,221   | 7,972,404             | 9,872,472                    | 25,440,527                |
| 1940                  | 27                       | 38,615,058          | 8,512   | 8,757,474             | 11,662,908                   | 31,207,809                |
| 1941                  | 30                       | 42,690,766          | 10,140  | 11,005,770            | 15,855,842                   | 41,549,845                |
|                       |                          |                     |         |                       |                              |                           |
| 1942                  |                          |                     |         |                       |                              |                           |
| CANADA                | 33                       | 50,279,255          | 11,088  | 13,039,579            | 18,339,710                   | 48,055,557                |
| Quebec                | 23                       | 27,978,594          | 7,511   | 8,628,819             | 13,216,511                   | 33,705,831                |
| New Brunswick         | 10                       | 22,300,661          | 3,577   | 4,410,760             | 5,123,199                    | 14,349,726                |
| 1 9 4 3               |                          |                     |         |                       |                              |                           |
| CANADA                | 33                       | 50,361,261          | 10,920  | 13,714,158            | 19,454,469                   | 50,440,088                |
| Quebec<br>Ontario and | 23                       | 27,946,959          | 7,275   | 8,846,030             | 12,546,814                   | 33,921,329                |
| New Brunswick         | 10                       | 22,414,302          | 3,645   | 4,868,128             | 6,907,655                    | 16,518,759                |
|                       |                          |                     |         |                       |                              |                           |

<sup>(</sup>x) Three establishments with a combined gross value of production in excess of \$1,500,000 in 1940, and previously included under the real and artificial silk industry are now classified under the new primary textile industry "Narrow fabrics, laces, trimmings, etc."

Note: Profits or losses cannot be estimated from Census figures as no data are collected for certain expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

Table 2. - Comparison of Principal Statistics, 1942 and 1943

| Items                        |      | 1942                                   | 1943                                  |           | ncrease<br>ecrease           |
|------------------------------|------|--|---------------------------------------|-----------|------------------------------|
| Establishments reporting     | No.  | 33                                     | 33                                    |           |                              |
| Capital invested             | \$   | 50,279,255                             | 50,361,261                            | +         | 82,006                       |
| Employees on salaries -      |      |  |                                       |           |                              |
| Total                        | No.  | 1,059<br>642<br>417<br>2,513,821       | 1,097<br>661<br>436<br>2,666,842      | + + + + + | 38<br>19<br>19<br>153,021    |
| Employees on wages -         |      |  |                                       |           |                              |
| Monthly average              | No.  | 10,029<br>5,976<br>4,053<br>10,525,758 | 9,823<br>5,600<br>4,223<br>11,047,316 | + +       | 206<br>376<br>170<br>521,558 |
| Power equipment -            |      |  |                                       |           |                              |
| Units                        | No.  | 28,235                                 | 25,644                                |           | 2,591                        |
| Horsepower capacity          | H.P. | 37,870                                 | 38,079                                | +         | 209                          |
| Cost of fuel and electricity | \$   | 1,601,270                              | 1,709,918                             | +         | 108,648                      |
| Cost of materials used       | \$   | 18,339,710                             | 19,454,469                            | + 1       | ,114,759                     |
| Gross value of production    | \$   | 48,055,557                             | 50,440,088                            | + 2       | ,384,531                     |

Table 3. - Production, 1942 and 1943.

|  | = 1 1   | 194         | 2          | 1943       |                                |  |
|--|---|-------------|------------|------------|--------------------------------|--|
|  | Init of Selling Weasure Quantity Value at Factory |             | Value at   | Quantity   | Selling<br>Value at<br>Factory |  |
|  |   |             | \$         |            | \$                             |  |
| Woven fabrics -                                      |   |             |            |            |                                |  |
| All real silk  | Yd.   | 1,711,176   | 1,498,949  | (1)        | (1)                            |  |
| artificial silk                                      | 10  | 51,177,690  | 23,673,054 | 44,834,713 | 21,213,91                      |  |
| All spun rayon                                       | 11  | 6,403,346   | 2,595,650  | 6,834,268  | 3,235,38                       |  |
| All cotton   | 11  | 1, 118, 877 | 345,596    | 1,291,854  | 399,52                         |  |
| other mixtures                                       | 10  | 4,716,182   | 2,872,566  | 5,178,859  | 3,736,39                       |  |
| Spun rayon mixtures                                  | 11  | 2,905,476   | 1,607,058  | 4,171,159  | 1,984,71                       |  |
| All other woven fabrics .                            | 11  | 1,263,329   | 1,107,296  | 3,733,192  | 2,376,04                       |  |
| Yarn and thread -                                    |   |             |            |            |                                |  |
| Real silk, including                                 |   |             |            |            |                                |  |
| mixtures   | Lb.   | 71,421      | 579,237    | 13,172     | 123.09                         |  |
| Artificial silk, singles. All other artificial silk, | 99  | 13,213,418  | 8,979,514  | 10,257,862 | 7,033,96                       |  |
| including mixtures All other yarns and               | 11  | 833,054     | 1,314,934  | 3,578,311  | 6,100,44                       |  |
| threads  | 19  | 248,979     | 364,276    | 245,788    | 352,05                         |  |
| Maste  | Lb .  | 1,177,813   | 121,277    | 1,568,061  | 182,15                         |  |
| All other products                                   | -   | ⇔           | 1,562,417  | 623        | 1,647,47                       |  |
| Custom and commission work.                          |   |             | 1,433,733  |            | 2,054,92                       |  |
| TOTAL VALUE OF PRODUCTS                              |   | 6           | 48,055,557 | E)         | 50,440,08                      |  |

<sup>(1)</sup> Included under "All other woven fabrics".

General Note:

This report covers only those establishments which manufacture principally artificial and real silk fabrics, yarns, embroidery, thread, etc. and statistics for specific products are, therefore, not to be regarded as total production in Canada. For the total Canadian production reference should be made to the Appendix to "The Manufacturing Industries of Canada".

The weaving of artificial silk yarns into fabric is also carried on in cotton mills, and the production of specified fabrics in the Cotton Yarn and Cloth Industry during the year 1943 is given below:

| Products  | Lineal<br>Yards | Selling value at factory |
|---|-----------------|--------------------------|
|   |                 | \$                       |
| ll artificial silk, continuous filament -         |                 |                          |
| Piece dyed and and and and and and and and and an | 2,155,655       | 669,660                  |
| Other   | 6,345,456       | 1,677,842                |
| all spun rayon (including mixtures)               | 11,010,235      | 2,928,652                |
| otton and continuous filament                     |                 |                          |
| artificial silk mixed -                           |                 |                          |
| Grey and bleached                                 | 67,772          | 24,684                   |
| Piece dyed  | 1,515,625       | 677,577                  |
|   |                 | The second second second |

Table 4. - Materials Used, 1942 and 1943.

|  | Unit         | 1 9        | 9 4 2                    | 1 9 4 3   |                          |  |
|--|--------------|------------|--------------------------|-----------|--------------------------|--|
| Principal Materials  | of<br>Measur | e Quantity | Cost Value<br>at Factory | Quantity  | Cost Value<br>at Factory |  |
|  |              |            | \$                       |           | \$                       |  |
| Silk, raw negonaccentones  | Pound        | 181,018    | 756, 366                 | 55, 891   | 230, 296                 |  |
| Rayon staple fibre   | 11           | 3,574,721  | 1,131,958                | 4,045,405 | 1,379,186                |  |
| Other raw stock  | 99           | 73         | 1,839,097                | 625       | 3,552,169                |  |
| Yarns -  |              |            |                          |           |                          |  |
| Silk, real waresensage and the   | 11           | 31,829     | 127,316                  | (1)       | (1)                      |  |
| Artificial silk  |              |            |                          |           |                          |  |
| (continuous filament)  | 11           | 8,808,089  | 6,452,116                | 7,260,688 | 5,742,998                |  |
| Spun silk  | 10           | 69,301     |                          | (1)       | (1)                      |  |
| Spun rayon (including spun   |              |            | 220,101                  | (-)       | (-/                      |  |
| rayon mixtures)  | 11           | 1,021,096  | 653,886                  | 1,251,642 | 856,202                  |  |
| Cotton   | 11           | 1,526,479  |                          | 1,852,875 | 1,161,547                |  |
| All other  | 11           | 344, 150   |                          | 570,862   | 905,003                  |  |
| Chemicals and dyestuffs  | -            |            | 2,928,733                |           | 2,826,863                |  |
| All other materials and  |              |            | 5,050,100                |           | 2,020,000                |  |
| supplies on one of the state of | 4            |            | (2)1,265,607             | 63        | (2)1,027,551             |  |
| Custom weaving, throwing, etc.   |              |            | 430,212                  | (*)       | 438, 012                 |  |
|  |              |            |                          |           | 1,009,053                |  |
| Dyeing and printing charges .  | 6.3          | £3         | 897,873                  |           | 1,009,000                |  |
| Packing and shipping   |              |            | 000 700                  |           | 705 504                  |  |
| materials  | 6            |            | 260,320                  |           | 325,592                  |  |
| POTAL COST OF MATERIALS USED .   | 6.3          | 0.3        | 18,339,710               | 69        | 19,454,469               |  |

<sup>(1)</sup> Less than 3 establishments reporting. Included in "Yarns, All other".

<sup>(2)</sup> Includes woven greige fabric, etc.

Table 5. - Capital Invested, 1927 to 1943.

|               | Fixed Capital      | Working Ca         | pital             |              |  |  |  |  |
|---------------|--------------------|--------------------|-------------------|--------------|--|--|--|--|
|               | Inventory value of |                    |                   |              |  |  |  |  |
|               | Land,              | materials on hand, | Operating Capital | Total        |  |  |  |  |
| Year and      | buildings,         | stock in process,  | cash, bills, and  | Capital      |  |  |  |  |
| Provinces     | fixtures,          | finished products, | accounts          |              |  |  |  |  |
|               | machinery,         | fuel and miscel-   | receivable,       |              |  |  |  |  |
|               | tools, etc.        | laneous supplies   | prepaid expenses, |              |  |  |  |  |
|               |                    | on hand            | etc.              |              |  |  |  |  |
|               | \$                 | *                  | *                 | \$           |  |  |  |  |
| Canada, 1927  | 13,348,083         | 2,600,098          | 6,379,637         | 22,327,818   |  |  |  |  |
| 1928          | 16,797,259         | 3,656,489          | 5,705,955         | 26, 159, 703 |  |  |  |  |
| 1929          | 17,795,190         | 4,360,403          | 6,123,064         | 28,278,657   |  |  |  |  |
| 1930          | 18,947,649         | 5,029,017          | 6,529,394         | 30,506,060   |  |  |  |  |
| 1931          | 21,754,419         | 4,810,674          | 5,640,114         | 32,205,207   |  |  |  |  |
| !! 1932       | 18,131,911         | 4,894,436          | 4,995,065         | 28,021,412   |  |  |  |  |
| 1933          | 18,844,213         | 4,060,272          | 7,288,385         | 30,192,870   |  |  |  |  |
| !! 1934       | 22,247,906         | 4,917,200          | 7,027,786         | 34,192,892   |  |  |  |  |
| 1935          | 21,444,973         | 5,757,971          | 7,860,079         | 35,063,023   |  |  |  |  |
| 1936          | 19,735,561         | 6,185,698          | 9,026,384         | 34,947,643   |  |  |  |  |
| ! 1937        | 19,489,080         | 6,957,891          | 7,688,205         | 34,135,176   |  |  |  |  |
| 1938          | 20,847,100         | 6,898,935          | 4,034,168         | 31,780,203   |  |  |  |  |
| 1939          | 21,010,070         | 6,009,278          | 5,324,085         | 32,343,433   |  |  |  |  |
| 1940          | 20,736,432         | 7,337,537          | 10,491,089        | 38,615,058   |  |  |  |  |
| !! 1941       | 20,498,502         | 7,650,394          | 14,541,870        | 42,690,766   |  |  |  |  |
| 1942          |                    |                    |                   |              |  |  |  |  |
| CANADA        | 27,531,272         | 8,878,249          | 13,869,734        | 50,279,255   |  |  |  |  |
| Quebec        | 13,379,897         | 6,151,517          | 8,447,180         | 27,978,594   |  |  |  |  |
| New Brunswick | 14,151,375         | 2,726,732          | 5,422,554         | 22,300,661   |  |  |  |  |
| 1943          |                    |                    |                   |              |  |  |  |  |
| CANADA        | 26,723,529         | 8,445,585          | 15,192,147        | 50,361,261   |  |  |  |  |
| Quebec        | 13,089,635         | 5,957,939          | 8,899,385         | 27,946,959   |  |  |  |  |
| New Brunswick | 13,633,894         | 2,487,646          | 6,292,762         | 22,414,302   |  |  |  |  |

Table 6. - Size of Establishments, 1942 and 1943.

| Establishments having a production of -           | Estab-<br>lish-<br>ments | Capital<br>Invested | Em-    | Salaries<br>and Wages | Cost of Materials Used | Gross Value of Production |
|---|--------------------------|---------------------|--------|-----------------------|------------------------|---------------------------|
|   | No.                      | \$                  | No.    | \$                    | \$                     | \$                        |
| 1 9 4 2   |                          |                     |        |                       |                        |                           |
| \$5,000 to under \$25,000 .                       | 1)                       |                     |        |                       |                        |                           |
| \$25,000 to under \$50,000.                       | 1)                       | 254,315             | 98     | 110,597               | 30,778                 | 227, 573                  |
| \$50,000 to under \$100,000<br>\$100,000 to under | 3)                       |                     |        |                       |                        |                           |
| <b>\$</b> 500,000                                 | 11                       | 1,790,586           | 1,026  | 1,068,310             | 1,695,270              | 3,437,874                 |
| \$500,000 to under                                |                          |                     |        |                       |                        |                           |
| \$1,000,000                                       | 8                        | 7,885,845           | 1,586  | 1,656,130             | 3,645,711              | 6,339,847                 |
| \$1,000,000 and over                              | 9                        | 40, 348, 509        | 8,378  | 10,204,542            | 12,967,951             | 38,050,263                |
| TOTAL   | 33                       | 50, 279, 255        | 11,088 | 13,039,579            | 18,339,710             | 48,055,557                |
| 1 0 4 %   |                          |                     |        |                       |                        |                           |
| 1943  |                          |                     |        |                       |                        |                           |
| \$25,000 to under \$50,000.                       | 3                        | 116,280             | 49     | 60,794                | 52,979                 | 123,976                   |
| \$50,000 to under \$100,000<br>\$100,000 to under | 3                        | 142,740             | 76     | 98,879                | 37,949                 |                           |
| \$500,000   | 9                        | 1,725,387           | 830    | 883,660               | 1,472,003              | 2,883,424                 |
| \$500,000 to under                                |                          |                     |        |                       |                        |                           |
| \$1,000,000                                       | 9                        | 4,299,051           | 1,521  | 1,747,530             | 3,431,160              | 6,993,960                 |
| \$1,000,000 to under                              |                          |                     |        |                       |                        |                           |
| \$5,000,000                                       | 6                        | 13,866,881          | 2,585  | 3,232,882             |                        |                           |
| \$5,000,000 and over                              | 3                        | 30, 210, 922        | 5,859  | 7,690,413             | 6,579,659              | 24,370,649                |
| TOTAL   | 33                       | 50,361,261          | 10,920 | 13,714,158            | 19,454,469             | 50,440,088                |

Table 7. - Employees, by sex and remuneration

| inplace a                           | Sala | ried l      | Employees         |       | ge-earn     | ers<br>rages)  | Total Employees<br>Salaries and Wages |             |                       |
|-------------------------------------|------|-------------|-------------------|-------|-------------|----------------|---------------------------------------|-------------|-----------------------|
| 100,000                             | Male | Fe-<br>male | Total<br>Salaries | Male  | Fe-<br>male | Total<br>Wages | Male                                  | Fe-<br>male | Salaries<br>and Wages |
| 1942                                | No.  | No.         | \$                | No.   | No.         | \$             | No.                                   | No.         | \$                    |
| CANADA                              | 642  | 417         | 2,513,821         | 5,976 | 4,053       | 10,525,758     | 6,618                                 | 4,470       | 13,039,579            |
| Quebec<br>Ontario and<br>New Bruns- | 452  | 276         | 1,767,928         | 4,310 | 2,473       | 6,860,891      | 4,762                                 | 2,749       | 8,628,819             |
| wick                                | 190  | 141         | 745,893           | 1,666 | 1,580       | 3,664,867      | 1,856                                 | 1,721       | 4,410,760             |
| 1943                                |      |             |                   |       |             |                |                                       |             |                       |
| CANADA                              | 661  | 436         | 2,666,842         | 5,600 | 4,223       | 11,047,316     | 6,261                                 | 4,659       | 13,714,158            |
| Quebec<br>Ontario and<br>New Bruns- | 443  | 293         | 1,826,733         | 3,902 | 2,637       | 7,019,297      | 4,345                                 | 2,930       | 8,846,030             |
| wick                                | 218  | 143         | 840,109           | 1,698 | 1,586       | 4,028,019      | 1,916                                 | 1,729       | 4,868,128             |

Table 8. - Monthly Employment of Wage-earners, 1941, 1942 and 1943.

|                 | 1941              |       |       | 1942              |       |             | 1 9 4 3 |        |        |
|-----------------|-------------------|-------|-------|-------------------|-------|-------------|---------|--------|--------|
|                 | Male Female Total |       | Male  | Male Female Total |       | Male Female |         | Total  |        |
|                 | No.               | No.   | No.   | No.               | No.   | No.         | No.     | No.    | No.    |
| January         | 5,748             | 3,050 | 8,798 | 6, 126            | 3,764 | 9,890       | 5,748   | 4,284  | 10,032 |
| February        | 5,855             | 3,080 | 8,935 | 6,137             | 3,747 | 9,884       | 5,716   | 4,176  | 9,892  |
| March           | 5,900             | 3,055 | 8,955 | 6,132             | 3,807 | 9,939       | 5.707   | 4,203  | 9,910  |
| April           | 5,921             | 3,016 | 8,928 | 6,057             | 3,810 | 9,867       | 5,671   | 4,047  | 9,718  |
| May             | 5,929             | 3,125 | 9,054 | 5,935             | 3,914 | 9,849       | 5,587   | 4,150  | 9,737  |
| June            | 6,068             | 3,308 | 9,376 | 5,983             | 3,991 | 9,974       | 5,608   | 4.245  | 9.853  |
| July            | 6,079             | 3,459 | 9,538 | 5,966             | 4,085 | 10,051      | 5,598   | 4, 169 | 9,767  |
| August          | 6,064             | 3,441 | 9,505 | 5,928             | 4,246 | 10,174      | 5,565   | 4,209  | 9,774  |
| September       | 6,079             | 3,555 | 9,634 | 5,908             | 4,287 | 10, 195     | 5.444   | 4,255  | 9,699  |
| Ootober         | 6,043             | 3,524 | 9,567 | 5,890             | 4,308 | 10,198      | 5,479   | 4,331  | 9,810  |
| November        | 6,031             | 3,499 | 9,530 | 5,907             | 4,354 | 10,261      | 5,525   | 4,313  | 9,838  |
| December        | 5,972             | 3,405 | 9,377 | 5,757             | 4,334 | 10,091      | 5,551   | 4,275  | 9,826  |
| MONTHLY AVERAGE | 5,975             | 3,292 | 9,267 | 5,976             | 4,053 | 10,029      | 5,600   | 4,223  | 9,823  |

Table 9. - Number of Wage-earners in Month of Highest Employment with their Hours of Work per week and Average Weekly Earnings, 1942 and 1943.

| Number of Hours         | 1 9     | 4 2     | 1943    |         |  |
|-------------------------|---------|---------|---------|---------|--|
| Worked per Week         | Male    | Female  | Male    | Female  |  |
|                         | No .    | No.     | No.     | No.     |  |
| 30 hours or less        | 191     | 195     | 184     | 259     |  |
| 31 - 43 hours           | 466     | 999     | 522     | 871     |  |
| 44 hours                | 111     | 204     | 204     | 256     |  |
| 45 - 47 hours           | 347     | 452     | 394     | 600     |  |
| 18 hours                | 893     | 603     | 869     | 616     |  |
| 19 - 50 hours           | 1,651   | 1,334   | 1.423   | 1,129   |  |
| 51 - 54 hours           | 645     | 308     | 542     | 318     |  |
| 55 hours                | 412     | 422     | 422     | 476     |  |
| 56 - 64 hours           | 1,022   | 102     | 1.005   | 86      |  |
| 55 hours and over       | 333     | -       | 284     | •       |  |
| Average hours per woek  | 50.8    | 45.9    | 50.4    | 45.8    |  |
| Average weekly earnings | \$25.75 | \$15.44 | \$26.42 | \$15.25 |  |
|                         |         |         |         |         |  |

Table 10. - Power Equipment, 1942 and 1943

| Classes of Power                                |              | Number<br>of<br>Units | Manufacturers ' Rating of Horsepower Capacity | Number<br>of<br>Units | Manufacturers Rating of Horsepower Capacity |
|---|--------------|-----------------------|---|-----------------------|---|
| Steam engines and steam                         | turbines     |                       |   |                       |   |
|   | use 02004    | 22                    | 5,580   | 20                    | 5,580                                       |
| Id  | lle annon    | 1                     | 350   | 1                     | 350   |
| Diesel engines                                  | 000000000    | 1                     | 800   | 1                     | 800   |
| Gasoline, gas and oil er                        | gines        |                       |   |                       |   |
| other than diesel - In                          | use          | 2                     | 45  | 00                    | -   |
| Id  | 18 000000    | 3                     | 260   | 5                     | 273   |
| Hydraulic turbines or wa                        | ter wheels . | · III U               |   |                       |   |
| In In   | use          | 4                     | 3,500   | 4.                    | 3,500                                       |
| I d   | le goodese   | 3                     | 1,000   | 3                     | 1,000                                       |
| Electric motors operated                        | by           |                       |   |                       |   |
| purchased power - In                            | use ocono    | 25, 172               | 25,473  | 21,699                | 25,608                                      |
| Id  | le           | 3,027                 | 862   | 3,911                 | 968   |
| TOTAL POWER AVAILABLE FO                        | R            |                       |   |                       |   |
| MANUFACTURING PURPOSES                          | 3011000000   | 28, 235               | 37,870  | 25,644                | 38,079                                      |
| Electric motors operated power generated in the |              |                       |   |                       |   |
| lishment - In                                   | use ocoso    | 1,903                 | 9,252   | 1,698                 | 8, 144                                      |
| Id  | le           |                       | 18-14- A                                      | 165                   | 480   |
| otal Electric Motors                            |              | 30, 102               | 35,587  | 27,473                | 35,200                                      |
| Boiler installation - In                        | use neede    | 43                    | 12,018  | 37                    | 11,451                                      |
| Id  | le           | 3                     | 1,360   | 4                     | 1,385                                       |

| Table 11 Consumption of Fuel and | Electricity. | 1942 | and | 1943 |
|----------------------------------|--------------|------|-----|------|
|----------------------------------|--------------|------|-----|------|

|   | Unit          | 1 9 4 2     |                          | 1 9 4 3     |                          |
|---|---------------|-------------|--------------------------|-------------|--------------------------|
| Kind of Fuel                                    | of<br>Measure | Quantity    | Cost Value<br>at Factory | Quantity    | Cost Value<br>at Factory |
|   |               |             | \$                       |             | 8                        |
| Coal -  | Ton           |             |                          |             |                          |
| Bituminous                                      | (2000 lb.     | 97,638      | 778.338                  | 101.795     | 871,499                  |
| Anthracite congeconders                         | 11            | 16,439      | 116,450                  |             | 138,522                  |
| Gasoline +                                      | Imp.Gal.      | 24, 291     | 7.320                    | 32,352      | 9,826                    |
| Kerosene  | 11 18         | 225         | 39                       | 98          | 15                       |
| Fuel or diesel oil                              | 44 48         | 764,590     | 57,447                   | 393,489     | 30,730                   |
| Nood  | Cord          | 293         | 890                      | 300         | 900                      |
| Gas, manufactured                               | M cu.ft.      | 190         | 203                      | 162         | 172                      |
| Other opensons opensons of                      |               | -           | 1,200                    | -           | 3,120                    |
| TOTAL COST OF FUEL<br>Electricity purchased in- | 40            | -           | 961,887                  | -           | 1,054,784                |
| including service charges                       | Kw.H.         | 103,680,683 | 639.383                  | 105,814,465 | 655, 134                 |
| COTAL COST OF FUEL AND                          | 63            |             | 1,601,270                |             | 1,709,918                |

<sup>+</sup> Gasoline used includes that used in cars and trucks.

# Table 12. - Mechanical Equipment, 1942 and 1943.

|  | 1942                    | 1943            |
|--|-------------------------|-----------------|
|  | Number                  | Number          |
|  |                         |                 |
| pindles -  |                         |                 |
| The second in the  | 02 002                  | E-17 1 1 10     |
| Throwing   | 98,858<br><b>32,863</b> | 87,516          |
| Doubling and twisting  | 52, 588                 | 36,480          |
| Spinning and services of the s | 146, 495                | 49,694          |
| Re-drawing   | 10,994                  | 165,336         |
| Reeling  | 368                     | 13,424          |
| Cone winding   | 8, 077                  | 2,732           |
| Quill winding  | 6,310                   | 7,765           |
| All other  | 0,010                   | 10,556<br>8,037 |
| ATT Office ecessos es  | 631                     | 0,037           |
| la una ma  | 170                     | 3.4 19          |
| arpers   | 139                     | 143             |
| lashers  | 31                      | 34              |
|  |                         |                 |
| ooms - 40 inches and under   | 94                      | 18              |
| 41 - 48 inches   | 736                     | 1,044           |
| 49 - 56 inches   | 2,915                   | 2,971           |
| 57 inches and over   | 1,127                   | 1,157           |
| Velvet   | 44                      | 44              |
| Other  | 338                     | -               |
|  |                         |                 |
| acquard machines in place on the above looms   | 177                     | 164             |
| obbies in place on the above looms   | 3,387                   | 3,627           |
| nitting machines   | 165                     | 164             |
|  |                         |                 |
| raiding machines   | 63                      | 2               |
|  |                         |                 |
|  |                         |                 |

#### Firms Engaged in Manufacture of Artificial and Real Silk in Canada, 1943

#### NEW BRUNSWICK

Canadian Cottons Limited

Milltown, N. B.

#### QUEBEC

Acton Vale Silk Mills Ltd.
Laurentian Silk Mills Ltd.
Associated Textile of Canada Ltd., Eastern Division
Bruck Silk Mills, Ltd.
Canadian Celanese Ltd.
Louis Roessel & Co. Ltd.
British American Silk Mills Ltd.
Carl Stohn of Canada, Ltd.

Iberville Drapery Mills Ltd.
Associated Textiles of Canada Ltd.
L & L Textiles Ltd.
M. E. Binz Co. Ltd.
"Aux Tissages Francais" Ltee.
Dominion Thread Mills
Dionne Spinning Mills Co.
Canadian Silk Textiles Reg'd.
Consolidated Textiles Ltd.
Duplex Textiles Ltd.
Belding-Corticelli Ltd.
J. B. Martin Co. Ltd.
Dominion Spinners Ltd.
Sutton Silk Mills Ltd.
Valleyfield Silk Mills Ltd.

Slingsby Manufacturing Co. Ltd.
Courtaulds (Canada) Ltd.
Newlands & Co. Ltd.
Canadian Industries Ltd.
Riverside Silk Mills Ltd.
Fine Silk Mills Ltd.
Dumo Textile Co. Ltd.
Dominion Silk Mills Ltd.
Grout's Ltd.

Acton Vale, Que. Cap de la Madeleine, Que.

Water St., Coaticook, Que. Cowansville, Que. Drummondville, Que, 628 Heriot St., Drummondville, Que. Granby, Que. St. Charles & Racine Sts., Granby, Quebec. 61 - 4th Ave., Iberville, Que. Louisville, Que, Magog, Que. Montmagny, Que. 445 St. Helen St., Montreal, Que. 52 Nazareth St., Montreal, Que. St. George West, Que. St. Hyacinthe. Que. St. Hyacinthe, Que. St. Hyacinthe, Que. St. Johns. Que. 445 St. James St., St. Johns, Que. 130 Gregoire St., St. Johns, Que. Sutton, Que. Valleyfield, Que.

#### ONTARIO

Grand River Ave., Brantford, Ont.
Cornwall, Ont.
Ainslie St. S., Galt, Ont.
Kingston, Ont.
Melville St., Galt, Ont.
Midland, Ont.
Picton, Ont.
2 Mark St., Toronto 2, Ont.
Welland Ave., St. Catharines, Ont.

