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CANADA

DEPARTMENT OF TRADE AND COMMERCE DOMINION BUREAU OF STATISTICS CENSUS OF INDUSTRY GENERAL MANUFACTURES BRANCH

REPORT

ON THE

ARTIFICIAL AND REAL SILK INDUSTRY

IN

CANADA

1942



OTTAWA 1944

34-208

MATERIAL SERVICE

COMMENTS IN CONTRACTOR

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

Dominion Statistician: S. A. Cudmore, M.A. (Oxon.), F.S.S., F.R.S.C. Chief, General Manufactures Branch: A. Cohen, B.Com.

ARTIFICIAL AND REAL SILK INDUSTRY IN CANADA, 1942.

The silk industry in Canada is divided into two distinct branches - real silk and artificial silk - but, owing to the fact that the manufacture of the latter is largely concentrated in a few establishments, it is necessary to combine the statistics in order to evoid disclosing individual information. Production must be shown on rather broad lines, an example of which is the impossibility of giving a breakdown of synthetic filament yarns into the fundamental types of viscose and acetate.

In 1942 reports were received from thirty-three establishments, three more than in 1941. Twenty-three of these establishments were located in Quebec, nine in Ontario and one in New Brunswick.

Fabrics, yarns, threads and all other items manufactured in the artificial and real silk industry were produced to the value of \$48,055,557 in 1942, an increase of \$6,505,712 dr 15.7 per cent as compared with the previous year. Employment was given to 11,088 persons in 1942; 948 or 9.3 per cent more than in 1941 and the payroll, \$13,039,579, represented an additional disbursement to salaried employees and wage-earners of \$2,033,809 or 18.5 per cent. Materials used cost \$18,339,710, an increase of \$2,483,868 or 15.7 per cent. Capital invested totalled \$50,279,255 and was greater by \$7,588,489 or 17.8 per cent than in 1941.

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 51,177,690 yards valued at \$23,673,054 in 1942 and 50,086,500 yards with a value of \$22,376,916 in 1941. The use of spun rayon is increasing rapidly and fabrics spun from this type of artificial silk yarn were reported to the extent of 6,403,346 yards worth \$2,595,650 in 1942 as against only 3,517,122 yards valued at \$1,608,022 in 1941.

The vital need for woven fabric of real silk was reflected in the increase in the production of this item, despite the shortage of raw silk and silk yarn as materials for the textile industries. Production of silk fabric in 1942 was 1,711,-176 yards worth \$1,498,949 as compared with 1,140,901 yards valued at \$873,890 in 1941. For details of products and of materials used, see tables 3 and 4.

The average monthly employment of wage-earners in 1942 was 10,029, November with 10,261 being the month of maximum employment, and May, with 9,849, the minimum. Tables 8 and 9 cover monthly employment of wage-earners, number of wage-earners in month of highest employment with their hours of work per week and average weekly earnings.

Table 1. - Principal Statistics, 1920 to 1942.

| | Table 1. | - Principal | Statistic | es, 1920 to | 1942. | |
|-----------------|----------|-------------|-----------|-------------|------------|----------------------|
| | Estab- | | | | Cost of | Gross |
| Year | lish- | Capital | Em- | Salaries | Materials | Value of |
| | ments | Invested | ployees | and Wages | Used | Production |
| | No. | \$ | No. | \$ | # | \$ |
| 1920 | 5 | 4,901,679 | 1,165 | 817,440 | 3,438,792 | 5,376,751 |
| 1921 | 5 | 4,559,909 | 932 | 719,845 | 1,890,171 | 3,536,513 |
| 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(x) | | | | | | |
| CANADA | 30 | 42,690,766 | 10,140 | 11,005,770 | 15,855,842 | 41,549,845 |
| Quebec | 22 | 27,819,663 | 7,287 | 7.617.203 | 12,601,666 | 29,788,071 |
| Ontario | 8 | 14,871,103 | 2,853 | | 3,254,176 | 11,761,774 |
| | | ,, | , | | | |
| 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 |
| Ontario and | | | | | | |
| New Brunswick . | 10 | 22,300,661 | 3,577 | 4,410,760 | 5,123,199 | 14,349,726 |
| | | | | | | TO HE REAL PROPERTY. |

⁽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, 1941 and 1942

| Items | | 1941 | 1942 | | Increase Decrease |
|------------------------------|-------|--------------------------------------|--|-------|------------------------------|
| Establishments reporting | No. | 30 | 33 | + | 3 |
| Capital invested | \$ | 42,690,766 | 50,279,255 | + | 7,588,489 |
| Employees on salaries - | | | | | |
| Total | No. | 873 570 303 1,977,921 | 1,059 642 417 2,513,821 | + | 186 72 114 535,900 |
| Employees on wages - | | | | | |
| Monthly average | No. | 9,267 5,975 3,292 9,027,849 | 10,029 5,976 4,053 10,525,758 | + + + | 762 1 761 1,497,909 |
| Power equipment - | | | | | |
| Units | No. | 27,216 | 28,235 | + | 1,019 |
| Horsepower capacity | н.Р. | 28,593 | 37,870 | + | 9,277 |
| Cost of fuel and electricity | 100 m | 1,483,599 | 1,601,270 | -4= | 117,671 |
| Cost of materials used | \$ | 15,855,842 | 18,339,710 | + ; | 2,483,868 |
| Gross value of production | \$ | 41,549,845 | 48,055,557 | + 1 | 6,505,712 |

Table 3. - Production, 1941 and 1942.

| | | 1 9 | 4 1 | 1942 | | |
|---|---------|------------|------------|------------|------------|--|
| Principal | Unit of | | Selling | | Selling | |
| Products | Measure | Quantity | Value at | Quantity | Value at | |
| | | | Factory | | Factory | |
| | | | • | | \$ | |
| Woven fabrics - | | | | | | |
| All real silk | Yd. | 1,140,901 | 873,890 | 1,711,176 | 1,498,949 | |
| artificial silk | 17 | 50,086,500 | 22,376,916 | 51,177,690 | 23,673,054 | |
| All spun rayon | 11 | 3,517,122 | 1,608,022 | 6,403,346 | 2,595,650 | |
| All cotton | 11 | (1) | (1) | 1,118,877 | 345,596 | |
| Real silk mixed with | | 1-/ | (-/ | 2,220,011 | 0.0,000 | |
| artificial silk | 11 | (1) | (1) | 00 | - | |
| Continuous filament artificial silk and cotton | | | | | | |
| mixtures | 11 | 3,084,403 | 2,360,702 | 3,070,790 | 2,214,872 | |
| Other continuous filament | | | | | | |
| artificial silk and | | | | | | |
| mixtures | 11 | 239,358 | 172,210 | 1,645,392 | 657,694 | |
| Spun rayon mixtures | 11 | 1,313,401 | 554,859 | 2,905,476 | 1,607,058 | |
| All other woven fabrics | 11 | 1,105,028 | 753,950 | 1,263,329 | 1,107,298 | |
| Yarn and thread - | | | | | | |
| Real silk, including | | | | | | |
| mixtures | Lb. | 105,700 | 545,139 | 71,421 | 579,237 | |
| Artificial silk, singles All other artificial silk, | H | 13,640,972 | 9,104,310 | 13,213,418 | 8,979,514 | |
| including mixtures | 11 | 262,379 | 305,443 | 833.054 | 1,314,934 | |
| All other yarns and threads | 17 | 160,376 | 330,726 | 248,979 | 364,276 | |
| and Joseph Joseph | | | 000,120 | 220,010 | 30 L gas 1 | |
| Naste | Lb. | (2) | (2) | 1,177,813 | 121,271 | |
| All other products | gan. | | 1,301,947 | - | 1,562,417 | |
| Custom and commission work . | - | - 3 | 1,261,731 | 200 | 1,433,733 | |
| TOTAL VALUE OF PRODUCTS | 6.7 | bett. | 41,549,845 | _ | 48,055,557 | |

⁽¹⁾ Included under "All other woven faction".

General Note: This report covers only those attablishments 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".

⁽²⁾ Included under "All other products".

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 1942 is given below:

| Products | Lineal Yards | Selling value at factory |
|---|-----------------|--------------------------|
| | | 3 |
| All continuous filament artificial silk - | | |
| Piece dyed | 3,165,102 | 999,824 |
| Other | 9,429,530 | 2,559,866 |
| Ill spun rayon (including mixtures) | 12,598,772 | 3,232,726 |
| otton and continuous filament | | |
| artificial silk mixed - | | |
| Grey and bleached | 116,434 | 34,686 |
| Piece dyed, yarn and stock dyed | 1,902,022 | 842,906 |

Table 4. - Materials Used, 1941 and 1942.

| | Unit | 1 9 | 4 1 | 1 | 9 4 2 |
|--------------------------------|---------------|-----------|--------------------------|-----------|--------------------------|
| Principal Materials | of Measure | Quantity | Cost Value at Factory | Quantity | Cost Value at Factory |
| | | | \$ | | \$ |
| Silk, raw | Pound | 233,535 | 729,784 | 181,018 | 756,166 |
| Rayon staple fibre | 11 | 1,384,556 | 405,775 | 3,574,721 | 1,131,958 |
| Other raw stock | 12 | (1) | (1) | | 1,839,097 |
| Yarns - | | | | | |
| Silk, real | 10 | 51,039 | 158,501 | 31,829 | 127,316 |
| Artificial silk | | | | | |
| (continuous filament) | 81 | 8,568,151 | 5,993,101 | 8,808,089 | 6,452,116 |
| Spun silk | 11 | 51,419 | 132,876 | 69,301 | 195,737 |
| Spun rayon (including | | | | | |
| spun rayon mixtures | :1 | 494,632 | 277,893 | 1,021,096 | 653,886 |
| Cotton | 11 | 1,104,969 | 599,069 | 1,526,479 | 854,046 |
| All other | 11 | 700,461 | 498,227 | 344,150 | 546,643 |
| Chemicals and dyestuffs | - | - | 3,479,431 | | 2,928,733 |
| All other materials and | | | | | _,, |
| supplies | - | - | 1,639,530 | - (: | 2)1,265,607 |
| Custom weaving, throwing, etc. | _ | _ | 766,178 | | 430,212 |
| Dyeing and printing charges | photo | | 912,371 | Till | |
| Packing and shipping | | | | | |
| materials | - | | 263,106 | SL H-ANDO | 260,320 |
| | | | | | |
| TOTAL COST OF MATERIALS USED | - | - | 15,855,842 | - | 18,339,710 |

⁽¹⁾ Included in "All other materials".

⁽²⁾ Includes woven greige fabric, etc.

Table 5. - Capital Invested, 1927 to 1942.

| | Fixed Capital | Working Cap | ital | |
|---|--|---|---|--|
| Year and Provinces | Land, buildings, fixtures, machinery, tools, etc. | Inventory value of materials on hand, stock in process, finished products, fuel and miscellaneous supplies on hand | Operating Capital cash, bills, and accounts receivable, prepaid expenses, etc. | Total Capital |
| | \$ | \$ | \$ | \$ |
| 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 | 13,348,083 16,797,259 17,795,190 18,947,649 21,754,419 18,131,911 18,844,213 22,247,906 21,444,973 19,735,561 19,489,080 20,847,100 21,010,070 20,786,432 | 2,600,098 3,656,489 4,360,403 5,029,017 4,810,674 4,894,436 4,060,272 4,917,200 5,757,971 6,185,698 6,957,891 6,998,935 6,009,278 7,337,537 | 6,379,637 5,705,955 6,123,064 6,529,394 5,640,114 4,995,065 7,288,385 7,027,786 7,860,079 9,026,384 7,688,205 4,034,168 5,324,085 10,491,089 | 22,327,818 26,159,703 28,278,657 30,506,060 32,205,207 28,021,412 30,192,870 34,192,892 35,063,023 34,947,643 34,135,176 31,780,203 32,343,433 38,615,058 |
| 1941 | | | | |
| CANADA | 20,498,502 | 7,650,394 | 14,541,870 | 42,690,766 |
| Quebec | | 6,046,402 1,603,992 | 8,031,617 6,510,253 | 27,819,663 14,871,103 |
| 1942 | | | | |
| CANADA | 27,531,272 | 8,878,249X | 13,869,734 | 50,279,255 |
| Quebec | 13,379,897 | 6,151,517 | 8,447,180 | 27,978,594 |
| Ontario and New Brunswick | 14,151,375 | 2,726,732 | 5,422,554 | 22,300,661 |

x The Inventory Value of finished products on hand amounted to \$1,587,160.

Table 6. - Size of Establishments, 1941 and 1942.

| Establishments having a production of - | Estab- lish- ments | Capital | Em- ployees | Salaries and Wages | Cost of Materials Used | Value of |
|--|--------------------------|-------------------------|----------------|-----------------------|------------------------------|------------|
| | No. | 3, 1 | No. | \$ | * | \$ |
| 1941 | | | | | | |
| \$20,000 to under \$50,000 \$50,000 to under \$100,000 \$100,000 to under | 2) | 203,711 | 125 | 110,186 | 33,321 | 223,615 |
| \$500,000 \$500,000 to under | 13 | 2,366,968 | 1,058 | 990,294 | 1,786,511 | 3,346,301 |
| \$1,000,000 \$1,000,000 and over | 5 8 | 2,999,489 37,120,598 | 1,198 7,759 | | 2,482,264 11,553,746 | |
| TOTAL | 30 | 42,690,766 | 10,140 | 11,005,770 | 15,855,842 | 41,549,845 |
| 1942 | | | | | | |
| \$5,000 to under \$25,000 \$25,000 to under \$50,000 | 1) | | | | | |
| \$50,000 to under \$100,000 \$100,000 to under | 3) | 254,315 | 98 | 110,597 | 30,778 | 227,573 |
| \$500,000 \$500,000 to under | 11 | 1,790,586 | 1,026 | 1,068,310 | 1,695,270 | 3,437,874 |
| \$1,000,000 | 8 | 7,885,845 | 1,586 | | 3,645,711 | |
| \$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 |

Table 7. - Employees, by sex and remuneration

| | Salaried Employees | | | Wage-earners Monthly Averages) | | | Total Employees Salaries and Wages | | |
|-------------------------------------|--------------------|---------|---------|--------------------------------|-------------|-----------------|------------------------------------|-------------|-----------------------|
| | Male | | otal | Male | Fe- male | Total Viages | Male | Fe- male | Salaries and Wages |
| | No. | No. | \$ | No. | No. | \$ | No. | No. | \$ |
| 1941 | | | | | | | | | |
| CANADA | 570 | 303 1,9 | 77,921 | 5,975 | 3,292 | 9,027,849 | 6,545 | 3,595 | 11,005,770 |
| Quebec | 415 | _ | - | | - | 6,209,352 | - | | 7,617,203 |
| Ontario | 155 | 80 8 | 570,070 | 1,308 | 1,310 | 2,818,497 | 1,463 | 1,390 | 3,388,567 |
| 1942 | | | | | | | | | |
| CANADA | 642 | 417 2,5 | 513,821 | 5,976 | 4,053 | 10,525,758 | 6,618 | 4,470 | 13,039,579 |
| Quebec Ontario and New Bruns- | 452 | 276 1,7 | 67,928 | 4,310 | 2,473 | 6,860,891 | 4,762 | 2,749 | 8,628,819 |
| wick | 190 | 141 | 45,893 | 1,666 | 1,580 | 3,664,867 | 1,856 | 1,721 | 4,410,760 |

Table 8. - Monthly Employment of Wage-earners, 1940, 1941 and 1942,

| Months - | 1 | 9 4 0 | | 1 | 941 | | | 1942 | |
|-------------|-------|--------|-------|-------|--------|-------|-------|--------|--------|
| M:OHOHS - | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| | No. | No. | No. | No. | No. | No. | No. | No. | No. |
| January | 5,054 | 2,801 | 7,855 | 5,748 | 3,050 | 8,798 | 6,126 | 3,764 | 9,890 |
| February | 5,117 | 2,786 | 7,903 | 5,855 | 3,080 | 8,935 | 6,137 | 3,747 | 9,884 |
| March | 5,218 | 2,771 | 7,989 | 5,900 | 3,055 | 8,955 | 6,132 | 3,807 | 9,939 |
| April | 5,245 | 2,722 | 7,967 | 5,921 | 3,016 | 8,928 | 6,057 | 3,810 | 9,867 |
| May | 3,204 | 2,202 | 5,406 | 5,929 | 3,125 | 9,054 | 5.935 | 3,914 | 9,849 |
| June | 5,055 | 2,543 | 7,598 | 6,068 | 3,308 | 9.376 | 5,983 | 3,991 | 9,974 |
| July | 4,991 | 2,577 | 7,568 | 6,079 | 3,459 | 9,538 | 5,966 | 4,085 | 10,051 |
| August | 5,078 | 2,753 | 7,831 | 6,064 | 3,441 | 9,505 | 5.928 | 4,246 | 10,174 |
| September . | 5,135 | 2,748 | 7,883 | 6,079 | 3,555 | 9,634 | 5,908 | 4,287 | 10,195 |
| October | 5.200 | 2,836 | 8,036 | 6.043 | 3,524 | 9,567 | 5,890 | 4,308 | 10,198 |
| Novembor | 5,359 | 2,859 | 8,218 | 6,031 | 3,499 | 9,530 | 5,907 | 4,354 | 10,261 |
| December | 5,426 | 2,815 | 8,241 | 5,972 | 3,405 | 9,377 | 5,757 | 4,334 | 10,091 |
| | | | | | | | | | |
| MONTHLY | | | | | | | | | |
| AVERAGE | 5,009 | 2,692 | 7,701 | 5,975 | 3,292 | 9,267 | 5,976 | 4,053 | 10,029 |

Table 9. - Number of Wage-earners in Month of Highest Employment with their Hours of Work per week and Average Weekly Earnings, 1941 and 1942.

| Number of Hours | | 1 | 1942 | |
|-------------------------|---------|---------|---------|---------|
| Worked per Week | Male | Female | Male | Fema le |
| | No. | No. | No. | No. |
| 30 hours or less | 237 | 193 | 191 | 195 |
| 31 - 43 hours | 436 | 819 | 466 | 999 |
| 14 hours , | 136 | 78 | 111 | 204 |
| 45 - 47 hours | 269 | 425 | 347 | 452 |
| 48 hours | 782 | 438 | 893 | 603 |
| 19 - 50 hours | 1.576 | 854 | 1.651 | 1,334 |
| 51 - 54 hours | 728 | 264 | 645 | 308 |
| 55 hours | 566 | 244 | 412 | 422 |
| 56 - 64 hours | 1,146 | 331 | 1,022 | 102 |
| 55 hours and over | 273 | 1 | 333 | |
| Average hours per week | 50.9 | 46.2 | 50,8 | 45.9 |
| Average weekly earnings | \$22,83 | \$13.91 | \$25.75 | \$15.44 |

| Ta | ble 10 Power | Equipment, | 1941 and 1942 | | |
|--|-----------------|-----------------------|---|--------------|---|
| | | | 1941 | 1 | 9 4 2 |
| Classes of Power | | Number of Units | Manufacturers Rating of Eorsepower Capacity | Number of | Manufacturers Rating of Horsepower Capacity |
| Steam engines and st | eam turbines - | | | | |
| | In use | 14 | 4,070 | 22 | 5,580 |
| | Idle | 2 | 385 | 1 | 350 |
| Diesel engines | | - | | 1 | 800 |
| Gasoline, gas and oi | l engines | | | | |
| other than diesel - | | 1 | 35 | 2 | 45 |
| | Idle | 1 | 125 | 3 | 260 |
| Hydraulic turbines of | r water wheels- | | | | |
| | In use | *94 | | 4 | 3,500 |
| | Idle | - | - | 3 | 1,000 |
| Electric motors oper | | | | | |
| purchased power - | In use | 27,032 | 23,723 | 25,172 | 25,473 |
| | Idle | 166 | 255 | 3,027 | 862 |
| TOTAL POWER AVAILABLE MANUFACTURING PURP | | 27,216 | 28,593 | 28,235 | 37,870 |
| Electric motors operated in | the estab- | 7 700 | 0.004 | 3 007 | 0.252 |
| lishment | | 1,127 | 2,204 | 1,903 | 9,252 |
| Total Electric Motor | S | 28,325 | 26,182 | 30,102 | 35,587 |
| Boiler installation | . In use | 37 | 22,072 | 43 | 12,018 |
| | Idlə | 2 | 95 | 3 | 1,360 |
| Table 1 | l Consumption | of Fuel a | nd Electricity | , 1941 and | 1942. |
| | Unit | | 1941 | | 1942 |
| Kind of Fuel | of | | Cost Value | | Cost Value |
| | | Quantity | at Factory | Quantity | at Factory |
| | | | \$ | | \$ |
| Coal - | Ton | | 4.07 | | 2 220 220 |
| Rituminous | | | 487,376 | 97,63 | |
| anthracite | | 12,273 | 74,666 | 16,439 | |
| Gasoline + | - 44 | 21,296 | 5,834 | 24,29 | |
| Lerosene | | 150 | 28 | 22. | 5 39 |

^{11 4,156,295} 764,590 Fuel or diesel oil 57,447 275,850 890 293 Cord 175 Wood 190 Gas, manufactured hi cu.ft. 215 258 203 1,200 1,200 Other TOTAL COST OF FUEL 845,737 961,887 Electricity purchased including service charges . Kw.H. 109,938,087 637,862 103,680,683 639,383 TOTAL COST OF FUEL AND 1,483,599 1,601,270 ELECTRICITY + Gasoline used includes that used in cars and trucks,

Table 12. - Mechanical Equipment, 1941 and 1942.

| | 1941 | 1942 |
|---|--------|---------|
| | Number | Number |
| Spindles - | | |
| Throwing | 89,690 | 90,886 |
| Winding | 35,077 | 32,865 |
| Doubling and twisting | 53,330 | 52,586 |
| Spinning | 68,914 | 146,495 |
| Re-drawing | 9.994 | 10.994 |
| Reeling | 368 | 368 |
| Cone winding | 1,936 | 8,077 |
| Quill winding | 5,284 | 6,310 |
| | | |
| Warpers | 122 | 139 |
| Slashers | 23 | 31 |
| Looms - 40 inches and under | 110 | 94 |
| 41 - 48 inches | 721 | 736 |
| 49 - 56 inches | | |
| | 2,728 | 2,915 |
| 57 inches and over | 942 | 1,127 |
| Velvet | 24 | 44 |
| Other | | 338 |
| Jacquard machines in place on the above looms | 201 | 177 |
| the second section and second second second | 30 V W | |
| Dobbies in place on the above looms | 2,913 | 3,387 |
| Mnitting machines | 110 | 165 |
| | | |

Firms Engaged in Manufacture of Artificial and Real Silk in Canada, 1942.

NEW BRUNSWICK

Canadian Cottons Limited (St. Croix Will)

Milltown, N. B.

QUEBEC

Acton Vale Silk Mills Ltd.

Laurentian Silk Mills Ltd.

Associated Textiles of Canada Ltd., - Eastern

Division

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. Bte. Martin Co. Ltd. Dominion Spinners Ltd. Sutton 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.
Grouts Ltd.

Valleyfield Silk Mills Ltd.

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

Water St., Coaticock, Que. Cowansville, Que. Drummondville, Que. 628 Heriot St., Drummondville, Que. Granby, Que. St. Charles & Racine Sts., Granby, Que. 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, Cnt.
Ainslie St. S., Galt, Ontario.
Kingston, Ont.
Melville St., Galt, Ont.
Midland, Ont.
Picton, Cnt.
2 Mark St., Toronto 2, Ont.
Welland Ave., St. Catharines, Ont.

