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DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

PRELIMINARY REPORT

ON

THE RUBBER INDUSTRY

1920

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OTTAWA

1922

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DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
OTTAWA, CANADA.

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

THE RUBBER INDUSTRY, 1920.

Ottawa, January 1922. The Dominion Bureau of Statistics presents a preliminary report on the Rubber industry in Canada for the calendar year 1920. The statistics are given under two heads - rubber goods and rubber footwear. Ontario has 18 plants and Quebec 6 in the rubber goods section of the industry, while in the rubber footwear section Ontario has 6 plants and Quebec, 5.

PRODUCTION.

The quantity and the selling value at the factory of the principal products manufactured are given in condensed form in the following summary table:-

| Kinds of Products | Quantity | Selling value at factory |
|--------------------------------------|-----------------|-----------------------------|
| In Rubber goods factories - | No. | \$ |
| Automobile tires, casings, all sizes | 1,561,824 | 35,175,801 |
| rubber tubes " | 1,427,546 | 4,271,461 |
| Auto-truck rubber tires, solid | 21,444 | 729,857 |
| Carriage rubber tires, solid | 203,928 | 81,599 |
| All other rubber tires, solid | 223,025 | 99,014 |
| Motorcycle tires | 15,172 | 154,556 |
| Motorcycle tubes | 12,674 | 18,849 |
| Bicycle tires | 241,890 | 428,979 |
| Bicycle tubes | 322,925 | 237,267 |
| Rubber footwear | pairs 2,056,704 | 2,809,874 |
| Rubber clothing | - | 971,549 |
| Rubber & composition soles & heels | | |
| Full soles | pairs 305,713 | 93,336 |
| Half soles | " 212,129 | 50,779 |
| Heels (all kinds) | " 4,983,856 | 743,706 |
| Tire repair gums and fabrics | lb. 287,107 | 220,460 |
| Rubber cement | gals. 60,765 | 89,374 |
| Rubber mats and matting | lb. 445,490 | 111,755 |
| Sheet packing | " 639,418 | 246,085 |
| Rubber belting | ft. 3,727,230 | 3,101,412 |
| Rubber hose | " 4,067,694 | 1,882,518 |
| Drug sundries | - | 303,918 |
| All other miscellaneous products | - | 3,300,708 |
| TOTAL RUBBER GOODS | | \$55,122,857 |
| | 2,063,355 | 36,588,207 |
| | 2,267,283 | 36,669,806 |

THE RUBBER INDUSTRY, 1920.PRODUCTION, cont'd.

| Kinds of Products | Quantity | Selling value at factory |
|--|-----------|--------------------------|
| In Rubber Footwear Factories | | \$ |
| Rubbers, girls' pairs | 730,872 | 437,140 |
| " misses' " | 796,154 | 515,935 |
| " ladies' " | 2,981,280 | 2,443,706 |
| " boys' " | 637,766 | 221,347 |
| " youths' " | 434,473 | 347,740 |
| " men's " | 3,167,680 | 3,886,391 |
| Rubber boots, children's . . . | 102,576 | 217,828 |
| " ladies' " | 91,825 | 230,644 |
| " men's knee " | 282,597 | 1,406,080 |
| " men's hip " | 80,583 | 543,112 |
| " boys' knee " | 5,952 | 25,003 |
| Gum rubber, shoes | 782,852 | 2,058,221 |
| " boots " | 216,743 | 768,977 |
| Overshoes, children's | 63,250 | 122,045 |
| " ladies' " | 91,373 | 133,885 |
| " men's " | 860,708 | 2,859,229 |
| Canvas shoes with rubber soles, (tennis, etc)- | | |
| Shoes, children's pairs | 556,258 | 609,280 |
| " ladies' " | 1,033,976 | 1,581,101 |
| " men's " | 984,830 | 1,621,165 |
| Boots, children's " | 226,292 | 215,789 |
| " ladies' " | 239,575 | 211,083 |
| " men's " | 542,549 | 670,685 |
| Rubber clothing | - | 249,724 |
| Rubber & Composition soles & heels- | | |
| Full soles pairs | 45,850 | 14,531 |
| Heels (all kinds) " | 834,496 | 89,018 |
| Rubber cement gals. | 16,744 | 21,220 |
| Rubber mats & matting lb. | 140,792 | 37,739 |
| Sheet packing " | 185,245 | 48,366 |
| Rubber belting ft. | 853,524 | 873,668 |
| Rubber hose " | 1,650,521 | 810,297 |
| Drug sundries | - | 551,190 |
| All other miscellaneous products- | - | 1,376,252 |
| TOTAL RUBBER FOOTWEAR | | \$25,594,451 |

CAPITAL INVESTMENT.

The capital invested in the industry is given by items and provinces for each section in the following table:

| Items of Capital | Ontario | Quebec | Canada |
|---------------------------------|------------|------------|------------|
| In Rubber Goods Factories- | \$ | \$ | \$ |
| Land, buildings, etc. | 10,214,000 | 162,201 | 10,376,203 |
| Machinery & tools | 8,053,270 | 438,664 | 8,471,934 |
| Materials on hand, etc. | 15,042,313 | 844,500 | 15,886,813 |
| Cash, operating accounts, etc. | 7,355,089 | 159,417 | 7,514,506 |
| TOTALS | 40,664,674 | 1,584,782 | 42,249,456 |
| In Rubber Footwear Factories - | | | |
| Land, buildings, etc. | 1,758,296 | 3,081,195 | 4,839,491 |
| Machinery & tools | 970,341 | 2,650,710 | 3,621,051 |
| Materials on hand, etc. | 2,282,888 | 3,794,584 | 6,077,472 |
| Cash, operating accounts, etc. | 908,129 | 674,440 | 1,582,569 |
| TOTALS | 5,919,654 | 10,200,929 | 16,120,583 |

THE RUBBER INDUSTRY, 1920.EMPLOYEES, SALARIES AND WAGES.

The number of persons employed in the industry is given in the accompanying table by classes of employment and sex, together with the payments made to each class in salaries and wages for each section:-

| Classes of employment. | Number of employees | | Salaries and Wages |
|---|---------------------|--------------|--------------------|
| | Male | Female | |
| In Rubber Goods Factories - | | | \$ |
| Officers, superintendents, mgrs. | 256 | 5 | 795,627 |
| Clerks, stenographers and other salaried employces . . . | 766 | 311 | 1,405,405 |
| Wage earners, average number . . . | 6,173 | 955 | 7,924,464 |
| Outside piece-workers | - | 15 | 7,187 |
| TOTALS | 7,195 | 1,286 | 10,152,683 |
| In Rubber Footwear & Factories - | | | |
| Officers, superintendents, mgrs. | 108 | 3 | 300,742 |
| Clerks, stenographers, etc. . . | 396 | 158 | 657,306 |
| Wage earners, average number . . . | 3,688 | 2,421 | 5,126,586 |
| Outside piece-workers | 3 | 53 | 24,970 |
| TOTALS | 4,195 | 2,635 | 6,089,404 |

The number of persons on wages classified according to weekly wage payments within specified groups is presented by age and sex in the following summary table:-

| | Over 16 yrs. | | Under 16 yrs. | | Total empl. |
|---------------------------------------|--------------|--------------|---------------|------------|----------------|
| | Male | Female | Male | Female | |
| In Rubber Goods Factories - | No. | No. | No. | No. | No. |
| Under \$5 per week | 24 | 6 | 5 | - | 32 |
| \$5 but under \$10 per week . . . | 66 | 114 | 36 | 5 | 209 |
| \$10 " " \$15 " " . . . | 192 | 269 | 49 | 40 | 550 |
| \$15 " " \$20 " " . . . | 574 | 284 | 30 | 5 | 581 |
| \$20 " " \$24 " " . . . | 1,321 | 47 | - | - | 1,368 |
| \$24 " " \$28 " " . . . | 972 | 13 | - | - | 985 |
| \$28 " " \$30 " " . . . | 416 | 2 | - | - | 428 |
| \$30 per week & over | 1,252 | 4 | - | - | 1,256 |
| TOTALS. | 4,617 | 759 | 85 | 50 | 5,492 |
| In Rubber Footwear factories - | | | | | |
| Under \$5 per week | 13 | 19 | 2 | 3 | 37 |
| \$5 but under \$10 per week . . . | 124 | 609 | 45 | 69 | 848 |
| \$10 " " \$15 " " . . . | 356 | 800 | 63 | 36 | 1,253 |
| \$15 " " \$20 " " . . . | 954 | 494 | 11 | 19 | 1,478 |
| \$20 " " \$24 " " . . . | 780 | 57 | 3 | - | 840 |
| \$24 " " \$28 " " . . . | 421 | 7 | 1 | 1 | 430 |
| \$28 " " \$30 " " . . . | 116 | - | - | - | 116 |
| \$30 per week & over | 227 | 1 | - | - | 228 |
| TOTALS | 2,991 | 1,987 | 126 | 128 | 5,232 |

MATERIALS USED.

The quantity and cost value at the factory of the various classes of materials used in the industry during the year are given for each section in the table following:-

| lasses of Materials | In Rubber Gds.Fact. | | In Rubber Footwear Fact. | |
|---------------------------|---------------------|-------------------|--------------------------|-------------------|
| | Quant. | Cost Val. | Quant. | Cost Val. |
| Rubber, raw . . . lb. | 17,656,734 | \$ 9,392,141 | 4,703,465 | \$ 2,644,477 |
| Rubber, reclaimed. " | 5,371,026 | 363,537 | 5,087,553 | 804,967 |
| Ire Duck . . . " | 6,937,553 | 11,624,569 | - | - |
| Co. & Belting duck " | 1,959,545 | 1,815,256 | 521,403 | 496,101 |
| Co. duck . . . " | 105,018 | 146,484 | 893,757 | 876,623 |
| Hockinette sheetings" | 150,923 | 237,341 | 989,520 | 1,489,801 |
| Co. cottons & fabrics" | - | 1,042,659 | - | 1,709,721 |
| Gears, valves, etc... . | - | 520,424 | - | 70,401 |
| Chemicals, etc. . . . | - | 1,615,124 | - | 933,341 |
| All other misc. materials | - | 3,421,873 | - | 2,167,531 |
| TOTALS | | 30,645,207 | | 11,192,995 |

THE RUBBER INDUSTRY, 1920FUEL CONSUMPTION.

The quantity and the cost value delivered at the factory or works of the various classes of fuel used during the year are given in the accompanying table by origin for each section:-

| Kinds of Fuel | Unit of measure | Canadian origin Quan. | Cost Val. | Foreign origin Quan. | Cost Val. |
|---------------------------------------|-----------------|--------------------------|-----------|-------------------------|------------|
| In Rubber Goods Factories - | | | | | |
| Bituminous coal | ton | - | \$ | 76,552 | \$ 642,342 |
| "anthracite " | " | - | | 1,332 | 12,608 |
| Wood | cd. | 10 | 40 | - | - |
| Gas, Art. & Nat. | m.c.ft. | 880 | 936 | - | - |
| TOTALS | | | 976 | - | 661,950 |
| In Rubber Footwear Factories - | | | | | |
| Bituminous coal | ton | 651 | 6,868 | 31,556 | 314,697 |
| TOTALS | | | 6,868 | - | 314,697 |

POWER STATISTICS.

The kinds of power employed in the industry are given by the number of units of each kind, the manufacturer's rated horse-power, and the horse-power actually employed in the following summary table:-

| Kinds of Power | Number of Units | H.P. according to manufacturers' rating | H.P. Actually employed |
|---------------------------------------|-----------------|---|------------------------|
| In rubber Goods Factories - | | | |
| Boilers | 52 | 11,126 | 7,919 |
| Engines, steam | 4 | 550 | 550 |
| Electric motors | 863 | 21,241 | 13,795 |
| TOTALS | 919 | 32,917 | 22,264 |
| In Rubber Footwear Factories - | | | |
| Boilers | 29 | 4,950 | 4,010 |
| Engines, steam | 9 | 1,706 | 1,689 |
| Water wheels | 11 | 2,775 | 2,650 |
| Electric motors | 343 | 8,619 | 7,718 |
| Other powers | 2 | 300 | 270 |
| TOTALS | 394 | 18,350 | 16,337 |

MISCELLANEOUS EXPENSES.

The outlay for expense of a miscellaneous character are itemized in the summary table below for each section of the industry.

| Items of Expenses | In Rubber goods Factories | In Rubber Footwear Factories |
|--|---------------------------|------------------------------|
| Rent of offices, works & machinery | \$ 80,537 | \$ 36,144 |
| Rent of power | 317,931 | 75,724 |
| Insurance (premiums only) | 162,866 | 42,903 |
| Taxes, municipal, provincial, federal | 227,813 | 187,436 |
| Royalties, use of patents, etc. | 39,041 | 6,943 |
| Advertising expenses | 393,545 | 49,274 |
| Travelling expenses | 193,833 | 40,998 |
| Repairs to buildings & machinery | 1,015,703 | 412,192 |
| All other sundry expenses | 2,823,697 | 2,496,593 |
| Total Expenses | \$ 2,254,960 | \$ 3,348,117 |

THE RUBBER INDUSTRY, 1920.

IMPORTS AND EXPORTS.

A table showing the value of the principal classes of rubber and rubber goods imported into Canada during the calendar year 1920 and also of goods, the produce of Canada, exported, is appended:-

| | Imports | | Exports | |
|--|--------------|-------------------|--------------|-------------------|
| | Quan. lb. | Value \$ | Quan. lb. | Value \$ |
| Rubber, etc. crude | 26,682,396 | 12,579,534 | - | - |
| Rubber, hard in sheets, ships, rods | 203,394 | 131,562 | - | - |
| Rubber, hard in tubes | - | 48,495 | - | - |
| Rubber, powdered, waste or junk . . . | 2,333,131 | 193,645 | 3,619,200 | 222,702 |
| Rubber, recovered . . . | 3,511,249 | 594,252 | - | - |
| Belting, rubber . . . | - | 190,667 | - | 62,052 |
| Boots & shoes, rubber . . . | - | 328,453 | - | 1,632,579 |
| Clothing, rubber . . . | - | 273,863 | - | 39,885 |
| Tires for vehicles, solid | - | 212,082 | - | 69,741 |
| Tires for vehicles, pneumatic, casings . | - | 2,299,760 | - | 10,267,534 |
| Tires for vehicles, inner tubes. . . . | - | 246,204 | - | 775,721 |
| All other mfgrs. of | - | 2,991,098 | - | - |
| TOTALS | | 20,089,665 | - | 13,070,124 |

PRINCIPAL STATISTICS BY PROVINCES

The principal statistics of the industry are shown for each section in the following summary table:-

| Provinces | Estab- lish- ments | Capital | Employ- ees | Salaries and Wages | Cost of Materials | Value of Products. |
|------------------------------|--------------------------|-------------------|----------------|--------------------------|----------------------|-----------------------|
| | No. | \$ | No. | \$ | \$ | \$ |
| Rubber Goods | | | | | | |
| Ontario . . . | 18 | 40,664,674 | 7,655 | 9,283,867 | 28,547,511 | 51,536,882 |
| Quebec . . . | 6 | 1,584,782 | 826 | 848,816 | 2,087,696 | 3,585,975 |
| CANADA | | | | | | |
| TOTALS | 24 | 42,249,456 | 8,481 | 10,132,683 | 30,645,207 | 55,122,857 |
| Rubber foot- wear | | | | | | |
| Ontario . . . | 6 | 5,919,654 | 2,410 | 2,422,637 | 4,298,712 | 10,414,960 |
| Quebec . . . | 5 | 10,200,929 | 4,420 | 3,666,767 | 6,894,281 | 15,179,421 |
| CANADA | | | | | | |
| TOTALS | 11 | 16,120,583 | 6,830 | 6,089,404 | 11,192,993 | 25,594,451 |

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