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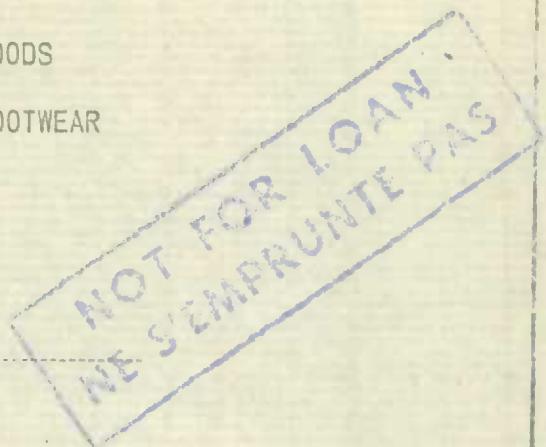
CENSUS OF INDUSTRY

THE RUBBER INDUSTRY IN CANADA

1921

SECTION 1 - RUBBER GOODS

SECTION 2 - RUBBER FOOTWEAR



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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. J. Macpherson.

THE RUBBER INDUSTRY IN CANADA, 1921.

Ottawa, February, 1923.- The Dominion Bureau of Statistics presents herewith a report on the Rubber Industry in Canada for the calendar year 1921. The Statistics are presented in two sections, as follows, (1) the Rubber Goods industry and (2) the Rubber Footwear industry. The number of plants reporting in the Rubber Goods industry was 23, of which 18 were in the Province of Ontario, 4 in the Province of Quebec, and 1 in the Province of British Columbia, whilst in the Rubber Footwear section, there were 12 plants reporting, of which 6 were in Ontario and 6 in Quebec.

COMPARATIVE STATISTICS, 1920 and 1921.

The accompanying table affords a comparison of the principal statistics of each section of the industry for the calendar years 1920 and 1921:-

(a) RUBBER GOODS INDUSTRY

Principal Statistics		1921	1920
Establishments reporting	No.	23	24
Capital investment	\$	38,420,786	42,249,456
Employees on salaries ..	No.	952	1,038
Salaries paid	\$	1,805,205	2,201,032
Employees on wages	No.	3,721	7,143
Wages paid	\$	4,003,292	7,931,651
Cost of fuel	\$	512,203	662,926
Miscellaneous expenses ..	\$	2,969,381	5,254,960
Cost of materials	\$	12,219,987	30,645,207
Value of products	\$	25,618,042	55,122,657
Value added by manufacture	\$	13,398,055	24,477,650

(b) RUBBER FOOTWEAR INDUSTRY

Establishments reporting	No.	12	11
Capital investment	\$	15,816,832	16,120,585
Employees on salaries ..	No.	695	665
Salaries paid	\$	1,006,215	953,048
Employees on wages	No.	4,361	6,165
Wages paid	\$	2,941,854	5,131,356
Cost of fuel	\$	257,839	321,565
Miscellaneous expenses ..	\$	1,610,664	3,343,117
Cost of materials	\$	4,627,137	11,192,993
Value of products	\$	13,051,744	25,594,451
Value added by manufacture	\$	9,214,507	14,401,458

THE RUBBER INDUSTRY IN CANADA, 1921.

PRODUCTION

The quantity and selling value at the factory or works of the various classes of products manufactured in each section of the industry and in the industry as a whole is shown in the subjoined tables -

Articles produced	Quantity	Selling value at works
RUBBER GOODS SECTION:-		
Pneumatic Tires and Tubes -		
Casings, sizes 30 x 3½ to 32 x 3½ No.	584,845	8,056,300 rs
" " 31 x 4 to 34 x 4 "	179,223	4,134,651 20
" " 32 x 4½ to 37 x 4½ "	60,655	2,203,322 30
" " 34 x 5 to 37 x 5 "	11,362	545,400 50
" all other inch sizes ... "	16,089	295,563 29
" millimetre sizes	11,342	284,574 20
TOTAL CASINGS	857,516	15,520,810
Inner tubes, sizes 30 x 3½ to 32 x 3½ "	655,874	1,291,017
" " 31 x 4 to 34 x 4 "	171,800	506,711
" " 32 x 4½ to 37 x 4½ "	55,427	216,239
" " 34 x 5 to 37 x 5 "	10,070	45,683
" " all other inch sizes ... "	8,136	28,972
" " millimetre sizes	12,645	41,762
TOTAL INNER TUBES	914,022	2,130,389
Auto Truck Rubber Tires, solid -		
Sizes 32 x 3½ to 36 x 3½	" 2,391	57,783
" 32 x 4 to 36 x 4	" 1,847	50,169
" 34 x 5 to 40 x 5	" 1,527	50,125
" 34 x 6 to 40 x 6	" 826	40,199
" 34 x 7 to 40 x 14	" 1,077	90,453
All other inch sizes	" 776	31,592
Millimetre sizes	" 552	21,123
TOTAL AUTO TRUCK TIRES SOLID	9,496	347,444
Carriage rubber tires, solid	No. 226,967	101,426
All other rubber tires, solid	No. 54,589	23,767
Motorcycle tires	" 4,540	41,919
Motorcycle tubes	" 5,757	7,795
Bicycle tires	" 91,438	160,693
Bicycle tubes	" 95,351	83,953
Rubber footwear	pr. -	2,160,604
Rubber clothing	No. -	-
Rubber and composition soles and heels -		
Full soles	pc. 28,272	10,364
Half soles	" 118,716	23,818
Heels, all kinds	" 4,438,575	570,309
Rubber belting	ft. 2,020,620	1,213,770
Rubber hose	" 3,020,879	1,078,870
Rubber mats and matting	lb. 382,024	100,551
Sheet packing	" 217,029	68,861
Tire repair gums and fabrics	" 142,575	134,621
Rubber cement	gal. 38,913	41,309
Drug sundries	-	109,753
All other miscellaneous products ...	-	1,629,318
TOTAL		\$25,618,042

1,017,579	16,094,633
1,244,546	16,196,059

The RUBBER INDUSTRY IN CANADA, 1921.PRODUCTION, cont'd.

Articles Produced	Quantity	Selling Value at works
<u>RUBBER FOOTWEAR SECTION -</u>		
Rubbers, children's	prs. 50,250	34,218
girls'	" 383,366	232,042
misses'	" 482,037	309,873
ladies'	" 1,766,566	1,320,535
boys'	" 485,440	411,674
youths'	" 264,347	187,811
men's	" 1,792,950	1,846,524
Rubber boots -		
children's	" 66,574	133,725
ladies' and misses' ..	" 70,822	155,911
men's, knee	" 151,045	566,152
boys' and youths', knee	" 28,328	138,439
men's, hip	" 44,394	200,063
Gum rubbers -		
shoes	" 303,239	1945,257
boots	" 541,931	1,201,063
Overshoes -		
Children's	" 33,432	64,540
ladies'	" 84,497	231,323
men's	" 201,401	562,025
Canvas, with rubber soles (tennis, etc.)		
shoes - children's	627,993	741,827
ladies'	679,132	897,114
men's	791,263	1,036,796
boots - children's	151,391	153,243
ladies'	104,823	120,627
men's	450,870	634,106
Rubber clothing	No. 30,544	118,544
Pneumatic tires, inner tubes	" 75,567	210,791
Rubber and composition soles & heels -		
Full soles	No. 8,824	2,672
Heels	" 662,827	68,287
Rubber cement	Gal. 34,399	35,846
Rubber mats and matting	Ibs. 12,306	38,139
Sheet packing	" 72,593	20,830
Rubber belting	ft. 323,991	165,362
Rubber hose	" 1,099,034	309,078
Drug sundries	- -	95,516
All other miscellaneous products	- -	631,785
TOTAL		\$13,851,744

THE RUBBER INDUSTRY IN CANADA, 1921.PRODUCTION, cont'd.SUMMARY OF PRODUCTION FOR ENTIRE INDUSTRY.

Classes of Products	Quantity	Selling Value
Pneumatic Tires and Tubes -		
Casings, sizes 30 x 3½ to 32 x 3½ .. No.	534,845	8,056,300
" " 31 x 4 to 34 x 4 .. "	179,223	4,134,651
" " 32 x 4½ to 37 x 4½ .. "	60,655	2,203,322
" " 34 x 5 to 37 x 5 .. "	11,362	545,400
" all other inch sizes	10,089	296,563
Millimetre sizes	11,342	284,574
TOTAL CASINGS	837,516	15,520,810
Inner tubes, sizes 30 x 3½ to 32 x 3½ "	712,023	1,422,748
" " 31 x 4 to 34 x 4 "	186,553	561,053
" " 32 x 4½ to 37 x 4½ "	58,926	233,732
" " 34 x 5 to 37 x 5 "	11,031	51,368
" all other inch sizes	8,441	30,517
" Millimetre sizes	12,545	41,762
TOTAL INNER TUBES	989,689	2,341,180
Auto truck rubber tires, solid -		
sizes 32 x 3½ to 36 x 3½	No. 2,391	57,783
" 32 x 4 to 36 x 4	" 1,847	50,169
" 34 x 5 to 40 x 5	" 1,527	56,125
" 34 x 6 to 40 x 6	" 826	40,199
" 34 x 7 to 40 x 14	" 1,077	90,453
All other miscellaneous inch sizes "	776	31,592
Millimetre sizes	552	21,123
TOTAL AUTO TRUCK TIRES, SOLID	9,496	347,444
Carriage rubber tires, solid	No. 226,957	101,426
All other rubber tires, solid	" 54,509	23,767
Motorcycle tires	" 4,540	41,919
" tubes	" 5,757	7,795
Bicycle tires	" 91,138	160,693
" tubes	" 95,851	83,953
Footwear - Rubbers -		
Children's	Pr. 50,278	34,218
girls'	" 430,563	258,953
misses'	" 531,980	342,310
ladies'	" 1,976,599	1,458,121
boys'	" 531,615	450,149
youths'	" 285,880	202,209
men's	" 1,988,121	2,036,279
Rubber boots -		
Children's	" 85,547	170,115
misses'	" 3,587	9,233
ladies'	" 75,761	168,750
men's knee	" 229,396	842,817
boys' and youths' knee	" 28,328	138,439
men's hip	" 68,809	327,384
Gum Rubbers -		
Shoes	" 651,740	1,575,746
boots	" 586,241	1,313,744
Overshoes -		
Children's	" 37,349	69,879
ladies'	" 100,109	258,745
men's	" 240,566	645,703
Canvas with Rubber soles -		
Shoes - children's	" 663,283	768,656
ladies'	" 718,105	934,662
men's	" 833,645	1,084,571
Boots - children's	" 233,661	233,137
ladies'	" 124,612	174,536
men's	" 582,607	817,142

THE RUBBER INDUSTRY IN CANADA, 1921.PRODUCTION, cont'd.SUMMARY OF PRODUCTION OF ENTIRE INDUSTRY, continued

Classes of Products		Quantity	Selling Value
			\$
Rubber clothing -			
Coats	No.	20,029	106,487
Headware	"	7,161	6,007
All other	"	3,354	6,050
Rubber and Composition soles and heels -			
Full soles	Pr.	37,096	13,036
Half soles	"	118,716	23,818
Heels, all kinds	"	5,101,402	633,596
Tire repair gums and fabrics	lbs.	142,675	134,621
Rubber cement	gall.	73,312	77,155
Rubber mats and matting	lbs.	394,630	138,690
Sheet packing	"	289,622	89,691
Rubber belting	ft.	2,344,611	1,379,132
Rubber hose	"	4,119,912	1,387,948
Drug sundries		-	205,269
All other rubber goods unspecified		-	2,217,491
Custom and repair work		-	101,310
GRAND TOTAL RUBBER INDUSTRY			\$ 39,469,786

CAPITAL INVESTMENT

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

Items of Capital	Ontario	Quebec and Br. Columbia	CANADA
<u>IN RUBBER GOODS SECTION:-</u>	\$	\$	\$
Land, buildings and fixtures	11,883,860	248,878	12,132,738
Machinery and tools	9,120,796	662,757	9,783,553
Materials on hand, stocks, Etc.	9,832,372	433,390	10,265,762
Cash, operating accounts, etc.	6,006,950	231,783	6,238,733
TOTALS	36,843,978	1,576,308	38,420,786
<u>IN RUBBER FOOTWEAR SECTION:-</u>			
Land, building and fixtures	1,901,372	3,414,939	5,316,361
Machinery and tools	1,102,060	3,214,811	4,316,871
Materials on hand, stocks, etc.	1,586,702	2,589,044	4,175,746
Cash, operating accounts, etc.	1,324,128	683,726	2,007,854
TOTALS	5,914,262	9,902,570	15,816,832

THE RUBBER INDUSTRY IN CANADA, 1921.EMPLOYEES, SALARIES AND WAGES

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

Classes of Employees	No. of Employees		Salaries and Wages
	Male	Female	
<u>IN RUBBER GOODS SECTION:-</u>			
Officers, supts. and managers	154	1	\$ 572,391
Technical experts, engineers, chemists, etc.....	102	3	236,172
Clerks, stenographers, etc.....	473	219	996,642
Wage earners, average number	3,225	566	4,006,292
TOTALS	3,954	789	5,811,497
<u>IN RUBBER FOOTWEAR SECTION:-</u>			
Officers, supts. and managers ...	122	4	334,056
Technical experts, engineers,etc.	51	3	96,729
Clerks, stenographers, etc.....	365	150	574,430
Wage earners, average number	2,633	1,678	2,914,654
Outside piece-workers	-	35	419
TOTALS	3,221	1,870	3,920,283

The following table presents a classification of employees by sex and age, according to weekly wage payments within specified groups of weekly earnings:-

Groups of Weekly Wages	Over 16 yrs. age		Under 16 yrs.		Total Employees
	Male	Female	Male	Female	
<u>IN RUBBER GOODS SECTION:-</u>					
Under \$5 per week	11	2	1	-	14
\$5 but under \$10 per week	82	63	2	9	156
\$10 " " \$15 " "	230	320	11	8	569
\$15 " " \$20 " "	686	140	1	-	827
\$20 " " \$25 " "	1,013	29	-	-	1,042
\$25 " " \$30 " "	543	-	-	-	543
\$30 " " \$40 " "	430	-	-	-	430
\$40 per week and over	63	-	-	-	63
TOTALS	3,058	554	15	17	3,644
<u>IN RUBBER FOOTWEAR SECTION:-</u>					
Under \$5 per week	8	15	2	-	25
\$5 but under \$10 per week	142	347	36	25	550
\$10 " " \$15 " "	392	878	12	22	1,304
\$15 " " \$20 " "	1,008	527	-	-	1,535
\$20 " " \$25 " "	665	69	-	-	734
\$25 " " \$30 " "	336	10	-	-	346
\$30 " " \$40 " "	115	-	-	-	115
\$40 and over per week	16	-	-	-	16
TOTALS	2,682	1,846	50	47	4,625

THE RUBBER INDUSTRY IN CANADA, 1921.

MATERIALS USED

The quantity and cost value delivered at the works of the various classes of materials used in each section of the industry is presented in the following table:-

Classes of Materials	Unit of measure.	IN RUBBER GOODS SECTION		IN RUBBER FOOTWEAR SECTION	
		Quantity	Cost Value	Quan.	Cost Val.
Rubber, raw	lbs.	11,260,025	3,397,064	3,435,430	982,450
Rubber reclaimed	"	2,023,505	294,745	1,878,467	300,037
Tire, duck	"	3,666,170	4,833,677	-	-
Hose & belting, duck	"	1,067,131	647,214	206,254	133,156
Shoe duck	"	250,559	125,219	630,070	429,925
Cocks, valves, etc. (val. only)		-	219,583	-	32,261
Stockinette sheetings	lbs.	86,566	105,393	370,325	383,926
Miscellaneous cottons (val. only)		-	374,510	-	776,284
Chemical & mineral compounds (val. only)		-	973,327	-	543,864
All other miscellaneous materials		-	1,249,242	-	1,055,135
TOTALS			12,219,987		4,637,137

FUEL CONSUMPTION

The quantity and cost value delivered at the works of the different classes of fuel consumed during the year is shown in the following table for each section of the industry and also by origin:-

Classes of Fuel	Unit of measure	CANADIAN ORIGIN		FOREIGN ORIGIN	
		Quan.	Cost Val.	Quan.	Cost Val.
IN RUBBER GOODS SECTION:-					
Bituminous coal, slack	ton	-	-	44,862	396,698
" " lump	"	-	-	8,272	68,701
" , run of mine	"	980	2,620	2,510	28,215
Anthracite coal, lump	"	-	-	41	585
" dust or slack	"	-	-	625	2,970
Gasoline	Imp.gal.	-	-	704	259
Oil (fuel)	" "	63,684	5,352	-	-
Wood	cord	17	55	-	-
Gas, artificial & natural	m.c.ft.	334	443	-	-
TOTALS		-	15,475	-	497,428
IN RUBBER FOOTWEAR SECTION:-					
Bituminous coal, slack	ton	-	-	2,901	26,972
" " lump	"	-	-	4,957	45,569
" , run of mine	"	6,914	69,901	8,900	99,605
Lignite coal, run of mine	"	-	-	797	8,185
Gasoline	Imp.gal.	4,419	2,029	-	-
Wood	cords	479	5,576	-	-
TOTALS		-	77,508	-	180,331

THE RUBBER INDUSTRY IN CANADA, 1921.MISCELLANEOUS EXPENSES

The outlay during the year for the various items indicated under the head of miscellaneous expenses is given for each section in the table following:-

Items of Expenses	IN RUBBER GOODS SECTION	IN RUBBER FOOTWEAR SECTION
Rent of offices, works and machinery	17,910	95,873
Rent of power	217,502	36,231
Insurance (premiums only)	75,802	30,459
Taxes, municipal, provincial, federal	149,206	155,672
Royalties, use of patents	10,985	6,037
Advertising expenses	172,586	56,921
Travelling expenses	68,464	39,101
Repairs to buildings and machinery	627,070	141,464
All other sundry expenses	1,629,856	1,058,856
TOTALS	2,969,381	1,610,664

POWER EMPLOYED

The classes of power employed in the industry are shown by number and horsepower in the following table:-

Classes of Power	No. of Units	H. P. according to mfrs' rating	H. P. actually employed
<u>IN RUBBER GOODS SECTION:-</u>			
Steam engines	4	625	575
Steam turbines	5	1,255	1,185
Electric motors	883	29,262	21,355
TOTALS	892	31,142	23,115
<u>IN RUBBER FOOTWEAR SECTION:-</u>			
Steam engines	11	1,778	1,778
Hydraulic turbines	7	2,525	2,250
Electric motors	372	10,331	9,467
TOTALS	390	14,634	13,495

THE RUBBER INDUSTRY IN CANADA, 1921.IMPORTS and EXPORTS

A table showing the imports of rubber and rubber goods into Canada during the calendar year 1921, and also the exports of rubber goods including footwear, being the produce of Canada, is given below by principal items:-

Articles	IM P O R T S		E X P O R T S	
	Quantity	Value	Quantity	Cost
Rubber, etc. crude	18,476,290	3,598,386	-	-
Rubber, hard in sheets, etc.	44,537	25,016	-	-
Rubber, hard in tubes, etc.	-	30,919	-	-
Rubber, powdered, waste or junk	1,092,842	75,597	1,658,400	56,699
Rubber recovered	1,040,203	125,280	-	-
Rubber belting	-	98,693	75,459	41,063
Rubber hose	-	110,933	-	169,740
Rubber boots and shoes ...	-	94,579	-	801,761
Rubber clothing	-	175,970	-	20,333
Rubber elastic	-	316,613	-	-
Rubber tires, solid	-	141,378	-	79,747
Rubber tires, pneumatic, casings	-	1,109,198	-	-
Rubber tires, pneumatic, inner tubes	-	124,838	-	2,386,971
All other manufactures of rubber	-	1,507,632	-	225,656
TOTALS		7,538,062		3,781,075

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