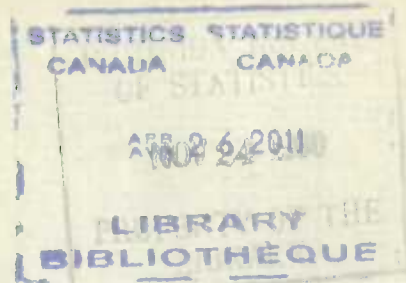


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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY

REPORT
on the
RUBBER INDUSTRY
in
CANADA
1929

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

OTTAWA

1930

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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
OTTAWA - CANADA

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THE RUBBER INDUSTRY IN CANADA, 1929.

Ottawa, November, 1930. - A report on the Rubber Industry in Canada is herewith presented for the calendar year 1929 classified under two heads: (1) Rubber tires and other rubber goods, (2) Rubber footwear. A resume of the principal statistics is given below:-

ESTABLISHMENTS

The number of establishments reporting in 1929 was 44, of which 33 were located in the province of Ontario, 9 in Quebec and 2 in British Columbia. Listed according to products the number of factories manufacturing tires only was 4, tires and footwear 2, and tires and other rubber products 6. The number making footwear only was 8, footwear and other rubber products 2, whilst those making rubber products other than tires and footwear were 22 in number.

CAPITAL

The amount of capital invested in the rubber industry in 1929 was \$73,877,478 to which the rubber tires and other rubber goods section contributed \$56,697,543 and the footwear section \$17,179,935. Fixed capital in the industry as a whole amounted to \$42,774,839 and working capital to \$31,102,639.

EMPLOYEES

The number of persons employed in the industry in 1929, exclusive of outside piece workers, was 17,796 of whom 2,259 were salaried employees and 15,537 were wage-earners. Of those employed 13,166 were males and 4,630 were females. In the rubber goods section the total employees numbered 9,771 of whom 8,118 were males and 1,653 were females, whilst in the footwear section the total number employed was 8,025 of whom 5,048 were males and 2,977 were females.

SALARIES AND WAGES

The total amount of salaries and wages paid in 1929 was \$20,134,501 of which \$4,156,968 was for salaries and \$15,977,533 for wages. Total payments in the rubber goods section amounted to \$12,906,180 of which \$2,846,660 represented the cost of salaries and \$10,059,520 the cost of wages. In the rubber footwear section the total payments were \$7,228,321 of which \$1,310,308 represented the cost of salaries and \$5,918,013 the cost of wages.

FUEL CONSUMPTION

The total cost of fuel consumed by the industry in 1929 was \$719,529 of which the rubber goods section accounted for \$553,602 and the rubber footwear section for \$165,927. Bituminous coal was the principal fuel of which 91,030 tons worth \$513,476 were reported whilst its value represented 92.75 per cent of the total cost of all fuel.

MATERIALS USED

The total cost of all materials used in the industry was \$42,940,747 of which the rubber goods section contributed \$33,408,648 and the rubber footwear section \$9,532,099. Raw rubber was the chief material with a total value of \$16,361,908 being over 38.1 per cent of the total cost of materials. The second largest item of materials was tire duck with a total cost of \$9,702,844 or more than 22.6 per cent.

VALUE OF PRODUCTION

The gross value of production for the entire industry amounted to \$96,934,660 in 1929 being a decrease of \$274,053 or .28 per cent over 1928. Of the three main classes of products, rubber tires and tubes accounted for \$51,386,140 or 53 per cent of the total, rubber footwear for \$23,720,291 or 30.7 per cent and other rubber goods for \$15,827,529 or 16.3 per cent. Automobile tire production increased in value over the preceding year by \$1,677,602 or 3.38 per cent, whilst rubber footwear decreased by \$2,691,620 or 8.3 per cent, and other rubber goods increased by \$739,965 or 4.9 per cent.

The net value of production, found by deducting the cost of materials from the gross value of products, advanced from \$52,090,143 in 1928 to \$53,993,913 in 1929 or 3.65 per cent.

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Size of Establishments

In view of the tendency towards concentration in industrial enterprises, a series of tables has been prepared presenting in a threefold way the size of establishments in the rubber industry, measured by (a) capital investment, (b) gross value of production and (c) the number of persons employed, all within certain specified groups or limitations for the calendar years 1928 and 1929. The tables further indicate the movement of capital, production and employment within the industry.

In 1928 the number of establishments reporting was 45 with a total capital investment of \$70,459,066, a gross value of production of \$97,208,713 and a total employment of 17,095. Seventeen factories had a capital investment of \$65,843,040 or 93.4 per cent of the total capital investment with an average investment of \$3,873,120 per factory.

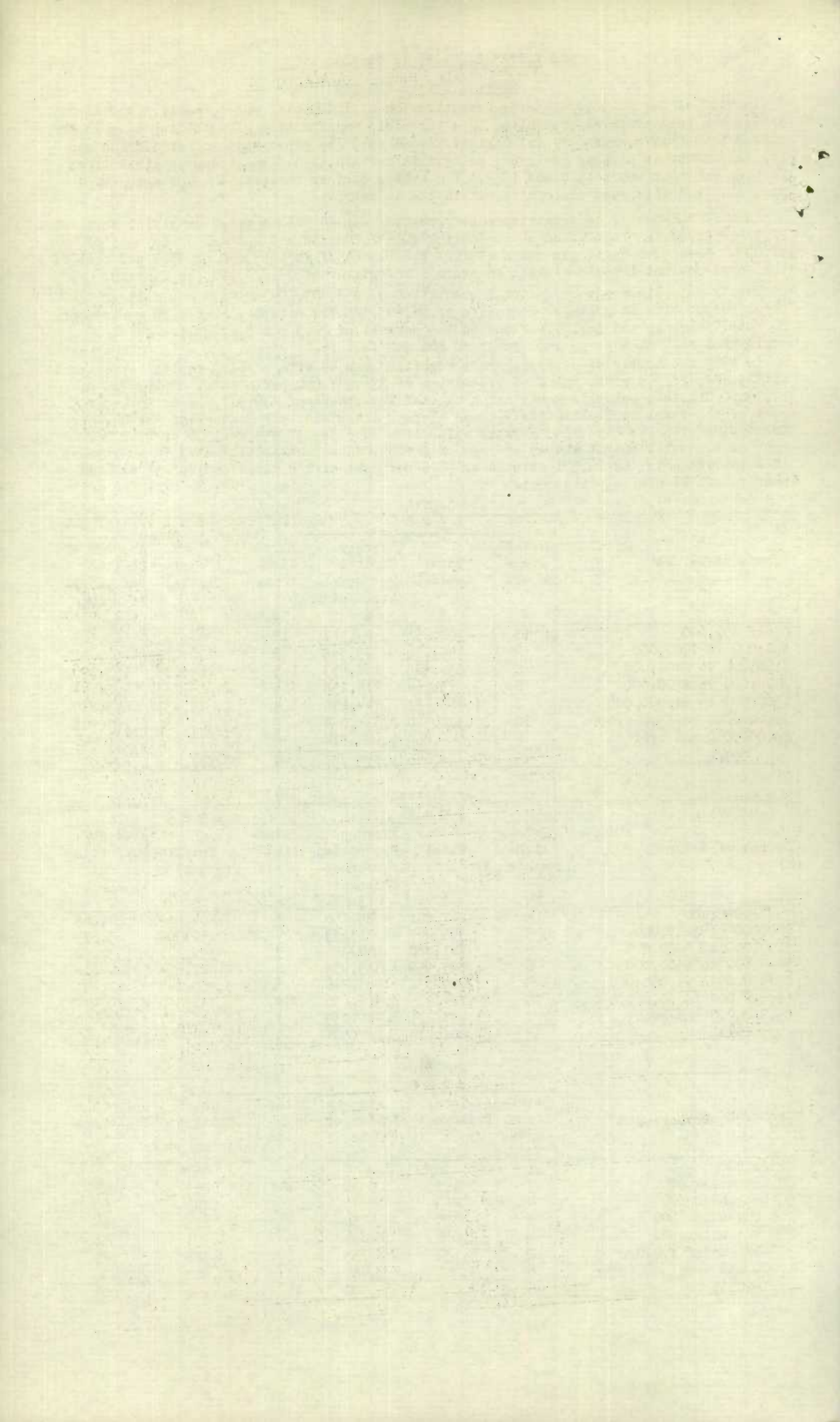
Twenty establishments had a total production of \$93,907,504 or 96.6 per cent of the total output with an average production of \$4,695,375 per establishment. In employment 20 establishments had 16,121 persons on the payroll or 94.3 per cent of the total employment with an average employment of 806 per factory.

In 1929 the number of establishments reporting was 44 with a total capital investment of \$73,877,478, a gross value of production of \$96,934,660 and a total employment of 17,796. Nineteen establishments had a capital investment of \$70,377,862 or 95.2 per cent of the total capitalization with an average investment per factory of \$3,704,098. Twenty-two establishments had a gross value of production of \$94,248,506 or 97.2 per cent of the total output and an average of \$4,284,023 per establishment. In employment 18 establishments had 16,521 persons or 92.8 per cent of the total employment with an average of 918 per establishment.

Groups of Values	Capital					
	1928			1929		
	Estab- lish- ments	Total Capital	Average Capital per estab- lishment	Estab- lish- ments	Total Capital	Average Capital per estab- lishment
	No.	\$	\$	No.	\$	\$
Under \$50,000	13	308,561	23,743	12	234,783	19,565
\$50,000 to \$100,000	2	159,136	79,568	3	170,072	56,691
\$100,000 to \$200,000	5	834,965	166,993	5	769,028	153,806
\$200,000 to \$500,000	8	3,313,264	414,158	5	2,325,733	465,147
\$500,000 to \$1,000,000	2	1,488,431	744,216	4	2,575,437	643,859
\$1,000,000 to \$5,000,000	10	23,310,540	2,331,054	9	19,385,169	2,153,908
\$5,000,000 and over	5	41,044,069	8,208,814	6	48,417,256	8,069,543
TOTAL	45	70,459,066	1,565,757	44	73,877,478	1,679,034

Groups of Values	Production					
	1928			1929		
	Estab- lish- ments	Total Production	Average Production per estab- lishment	Estab- lish- ments	Total Production	Average Production per estab- lishment
	No.	\$	\$	No.	\$	\$
Under \$50,000	9	267,801	29,756	9	204,889	22,765
\$50,000 to \$100,000	5	355,667	71,133	4	254,300	63,575
\$100,000 to \$200,000	5	781,782	156,356	3	399,271	133,090
\$200,000 to \$500,000	6	1,895,959	315,993	6	1,827,694	304,616
\$500,000 to \$1,000,000	3	2,289,738	763,246	6	3,968,047	661,341
\$1,000,000 to \$5,000,000	10	29,184,495	2,918,450	9	26,738,312	2,970,924
\$5,000,000 and over	7	62,433,271	8,919,039	7	63,542,147	9,077,450
TOTAL	45	97,208,713	2,160,194	44	96,934,660	2,203,060

Groups of Employees	Employees					
	1928			1929		
	Estab- lish- ments	Total Employees	Average Employees	Estab- lish- ments	Total Employees	Average Employees
	No.	No.	No.	No.	No.	No.
Under 20	11	98	9	9	57	6
20 but under 50	7	193	28	8	217	27
50 but under 100	4	293	73	5	346	69
100 but under 200	3	390	130	4	655	164
200 but under 500	7	2,088	291	5	1,791	358
500 but under 1,000	7	5,132	733	6	4,328	721
1,000 and over	6	8,901	1,484	7	10,402	1,486
TOTAL	45	17,095	330	44	17,796	404



COMPARATIVE STATISTICS

A comparison of the principal statistics of the rubber industry in Canada is afforded in Table 1(a) for the calendar years 1926, 1927, 1928 and 1929. The number of plants reporting in 1929 decreased by 2.22 per cent from 1928, whilst capital investment increased by 4.9 per cent, employees by 3.9 per cent, salary and wage payments by 4.1 per cent and the cost of fuel by 4.5 per cent. The cost of materials decreased by 4.8 per cent and the gross value of products by .28 per cent.

Table 1(a). - Principal Statistics, Compared, 1926 - 1929.

Principal Statistics		1926	1927	1928	1929
Establishments reporting	No.	39	44	45	44
Capital investment	\$	62,661,702	66,266,064	70,459,066	73,877,478
Employees on salaries	No.	1,786	1,900	2,145	2,259
Salaries paid	\$	3,096,334	3,243,988	3,602,753	4,156,968
Employees on wages	No.	11,801	13,169	14,950	15,537
Wages paid	\$	11,611,689	13,377,752	15,340,977	15,977,533
Cost of fuel	\$	641,551	649,892	688,565	719,529
Cost of materials	\$	49,902,189	44,724,502	45,113,570	42,940,747
Gross value of products	\$	86,508,137	91,413,730	97,208,713	96,934,660
Net value of products	\$	36,605,948	45,689,228	52,090,143	53,993,913

Automobile Tire and Tube Production, Compared, 1917-1929.

A comparative summary of automobile tire production (casings and inner tubes) from 1917 to 1929 is presented in the following table. Pneumatic tires and solid tires are each shown by number and value.

Table 1(b). - Automobile Tire and Tube Production, Compared, 1917 - 1929.

Year	Pneumatic Tires				Solid Tires	
	Casings No.	Value \$	Inner Tubes No.	Value \$	Number	Value \$
1917	1/	1/	1/	1/	111,211	225,460 (2)
1918	1/	1/	1/	1/	60,783	126,859 (2)
1919	1,293,010	23,298,673	1,117,913	2,872,487	14,170	451,196
1920	1,561,974	35,175,801	1,427,546	4,271,461	21,444	729,857
1921	857,816	15,520,810	939,639	2,037,180	9,472	343,171
1922	1,482,796	19,519,208	1,504,837	2,618,584	15,572	476,735
1923	2,150,768	23,504,489	2,256,604	3,655,109	22,546	658,090
1924	2,139,234	22,855,905	2,454,292	4,319,022	20,995	531,189
1925	2,969,632	33,586,958	3,462,380	6,922,413	20,918	721,039
1926	2,966,088	38,159,495	3,511,897	7,934,096	18,061	798,049
1927	3,856,315	40,707,749	4,275,753	8,302,944	21,471	859,552
1928	4,338,578	41,075,594	4,638,429	7,358,560	17,377	592,636
1929	4,506,185	43,618,214	4,681,550	6,671,483	10,906	387,227

1/ Separate figures for casings and inner tubes are not available for 1917 and 1918 being combined in a single total. In 1917 the number of tires was stated at 2,394,737 and the value at \$15,186,995 and in 1918 at 2,242,046 tires valued at \$14,449,957.

(2) Solid tires included carriage tires in 1917 and 1918.

Bicycle and Motorcycle Tires and Tubes, Compared for 1919-1929.

The quantity and value of motorcycle tires and tubes and of bicycle tires and tubes are compared in the following summary table for the calendar years 1919-1929.

Table 1(c). - Bicycle and Motorcycle Tires and Tubes, Compared, 1919-1929.

Year	Bicycle				Motorcycle			
	Tires No.	Value \$	Tubes No.	Value \$	Tires No.	Value \$	Tubes No.	Value \$
1919	185,613	244,521	234,679	277,656	8,586	74,131	8,717	12,396
1920	241,390	428,979	322,925	237,267	15,172	154,556	12,674	18,849
1921	91,496	161,151	95,851	83,953	4,540	41,919	5,757	7,795
1922	171,441	220,051	182,861	115,008	22,682	151,470	15,887	15,032
1923	211,493	249,869	217,082	128,885	39,838	187,074	35,334	30,946
1924	182,593	249,255	183,982	107,133	48,181	329,831	37,513	42,532
1925	197,699	245,963	208,210	95,918	53,477	355,268	48,231	65,620
1926	175,980	229,610	213,696	131,775	91,359	530,352	64,287	85,102
1927	160,705	175,572	150,149	84,408	37,658	261,491	20,164	31,155
1928	186,623	181,193	207,747	91,010	36,467	293,764	22,394	23,633
1929	221,035	219,505	239,048	127,770	27,897	168,149	18,112	20,290

THE RUBBER INDUSTRY IN CANADA, 1929.

PRODUCTION STATISTICS

(a) Rubber Tires and Tubes.

The production of rubber tires and tubes according to size is presented in Table 2 for the calendar year 1929. The total selling value of all tires and tubes produced during the year was \$51,386,140 comprising pneumatic tires and inner tubes to the value of \$24,110,280, balloon tires and inner tubes to the value of \$26,179,417, solid tires to the value of \$387,227 and carriage, motorcycle and bicycle tires to the value of \$709,216. The value of production which in 1928 amounted to \$49,708,538 increased by \$1,677,602 or 3.4 per cent during the year under review.

Table 2. - Production of (a) Pneumatic (b) Balloon and (c) Solid Tires, by sizes, 1929.

Casings and Inner Tubes by sizes		(a) Pneumatic Tires			
		Casings		Inner Tubes	
		Number	Value \$	Number	Value \$
Sizes -	30 x 3½	580,948	2,766,719	840,729	741,500
	32 x 3½	303	2,211	568	626
	31 x 4	29,128	252,972	73,364	93,660
	32 x 4	35,371	337,965	45,612	55,891
	33 x 4	20,635	495,805	23,732	35,529
	34 x 4	2,142	27,409	3,792	9,667
	32 x 4½	18,679	249,794	25,248	43,614
	33 x 4½	17,893	231,165	18,906	33,896
	34 x 4½	7,595	107,627	10,249	19,216
	35 x 4½	113	2,048	456	837
	36 x 4½	47	949	12	20
	30 x 5	307,496	4,567,876	327,836	574,088
	33 x 5	15,215	276,694	21,948	46,599
	34 x 5	4,509	89,935	5,111	11,310
	35 x 5	4,410	86,823	5,035	11,712
	37 x 5	465	24,087	114	408
	32 x 6	275,187	6,824,650	285,323	835,659
	36 x 6	17,939	595,472	16,798	57,974
	34 x 7	40,535	1,662,638	39,515	179,499
	36 x 7	812	50,559	1,418	11,190
	38 x 7	9,412	395,719	7,659	32,311
	36 x 8	8,444	427,664	8,481	40,073
	40 x 8	4,242	255,826	4,076	25,739
	Miscellaneous inch sizes	23,165	238,021	28,836	43,921
	Miscellaneous Millimetre sizes	114,366	1,140,561	50,934	79,461
Total Pneumatic Tires		1,539,111	21,111,280	1,845,752	2,999,000
		(b) Balloon Tires			
Sizes -	29 x 4.40	423,170	2,540,017	431,808	552,773
	31 x 4.40	41,333	362,963	31,280	42,439
	30 x 4.75	21,450	166,876	15,579	19,095
	29 x 4.95	7,616	91,308	5,783	11,790
	30 x 4.95	2,865	34,920	2,170	4,536
	31 x 4.95	935	12,214	651	1,374
	32 x 4.95	4,405	59,050	2,238	3,976
	33 x 4.95	6,260	86,666	2,666	5,268
	34 x 4.95	1,533	23,177	1,095	2,080
	30 x 5.25	76,547	756,614	71,570	127,901
	31 x 5.25	113,295	1,120,431	86,602	148,900
	30 x 5.77	444	8,902	169	549
	32 x 5.77	74	1,598	6,720	8,745
	33 x 5.77	972	18,597	2,636	4,905
	34 x 5.77	1,451	26,206	1,831	4,080
	35 x 5.77	172	3,729	694	942
	33 x 6.00	55,101	685,862	38,204	24,730
	32 x 6.20	4,217	94,671	10,763	30,388
	33 x 6.20	214	4,571	728	1,456
	33 x 6.75	9,410	148,051	6,576	15,529
	35 x 6.75	187	4,191	1,932	3,215
	34 x 7.30	239	6,267	1,292	3,282
	Miscellaneous sizes	2,195,134	16,250,053	2,112,813	2,694,570
Total Balloon Tires		2,967,074	22,506,934	2,835,798	3,672,483

THE RUBBER INDUSTRY IN CANADA, 1929.
PRODUCTION STATISTICS, 1929 - (Continued).

5.

Table 2. - Production of (a) Pneumatic (b) Balloon and (c) Solid Tires, by sizes
1929 (continued)

(c) Solid Tires by sizes		Number	Value \$
Sizes -	32 x 3½	71	958
	34 x 3½	-	-
	36 x 3½	-	-
	32 x 4	241	4,355
	34 x 4	300	5,635
	36 x 4	1,324	26,330
	38 x 4	-	-
	32 x 5	197	3,835
	34 x 5	269	6,376
	36 x 5	1,155	30,294
	40 x 5	5	173
	34 x 6	175	5,242
	36 x 6	905	29,040
	40 x 6	-	-
	34 x 7	246	9,149
	36 x 7	391	15,725
	34 x 8	391	17,977
	36 x 8	480	22,527
	36 x 10	698	42,023
	40 x 10	165	11,091
	36 x 12	365	25,668
	40 x 12	289	22,115
	36 x 14	141	11,682
	40 x 14	496	47,203
	Miscellaneous sizes	2,502	49,829
Total Solid Tires		10,906	387,227

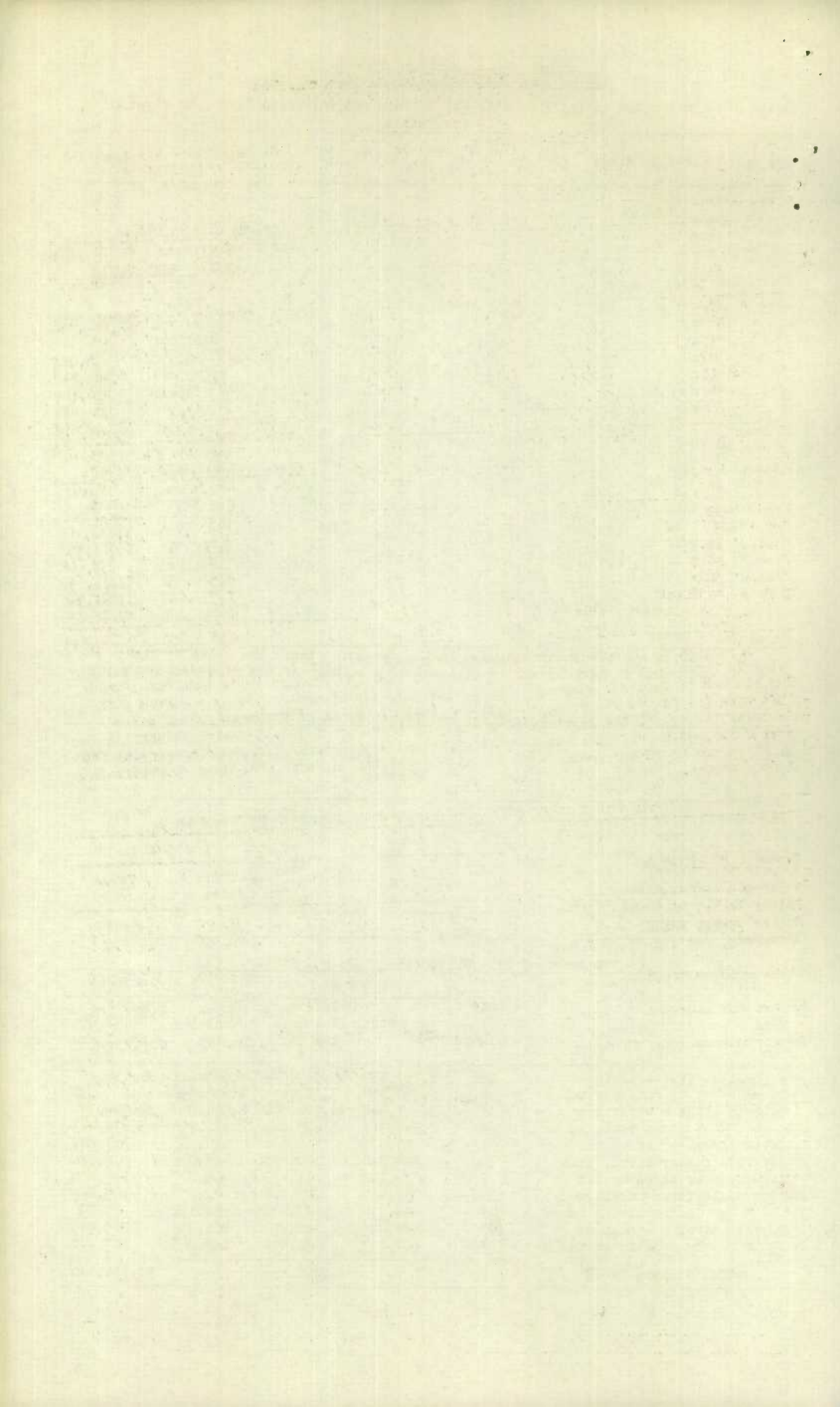
Other tires and tubes not included in the foregoing table are shown by kind, quantity and value in Table 3 and is followed by a summary of all tire production in 1929.

Table 3. - Other Tires and Tubes, Solid or Pneumatic.

Kind	Unit of Measure	Quantity	Selling Value at the Works \$
Carriage rubber tires, solid	Lb.	436,046	70,076
All other rubber tires, solid	"	409,245	103,426
Motorcycle tires, casings	No.	27,897	168,149
Motorcycle tires, inner tubes	"	18,112	20,290
Bicycle tires, casings	"	221,035	219,505
Bicycle tires, inner tubes	"	239,048	127,770
TOTAL VALUE		-	709,216

Summary of Tire Production, 1928 and 1929.

Kind	Unit of Measure	1928		1929	
		Quantity	Selling Value at the Works \$	Quantity	Selling Value at the Works \$
Pneumatic tires - casings	No.	1,717,130	19,369,592	1,539,111	21,111,230
" " - inner tubes	"	2,250,712	3,725,434	1,845,752	2,992,000
Balloon tires - casings	"	2,621,448	21,706,002	2,967,074	22,506,934
" " - inner tubes	"	2,367,717	3,633,126	2,635,798	3,672,483
Solid tires	"	17,377	592,636	10,906	387,227
Carriage rubber tires, solid	Lb.	542,210	170,675	486,046	70,076
Other rubber tires, solid	"	36,102	11,473	409,245	103,426
Motorcycle tires- casings	No.	36,467	203,764	27,897	168,149
" " - inner tubes	"	22,394	23,633	18,112	20,290
Bicycle tires - casings	"	186,623	181,193	221,035	219,505
" " - inner tubes	"	207,747	91,010	239,048	127,770
TOTAL SELLING VALUE		-	49,708,538	-	51,386,140



THE RUBBER INDUSTRY IN CANADA, 1929.
PRODUCTION STATISTICS (continued).

6.

B. Footwear.

The production of rubber footwear is shown by classes, sizes, number and value in Table 4 for the calendar year 1929. Compared with 1928 there was an increase of 1,689,406 in the number of pairs of all classes manufactured but a decrease of \$2,691,620 in value of production.

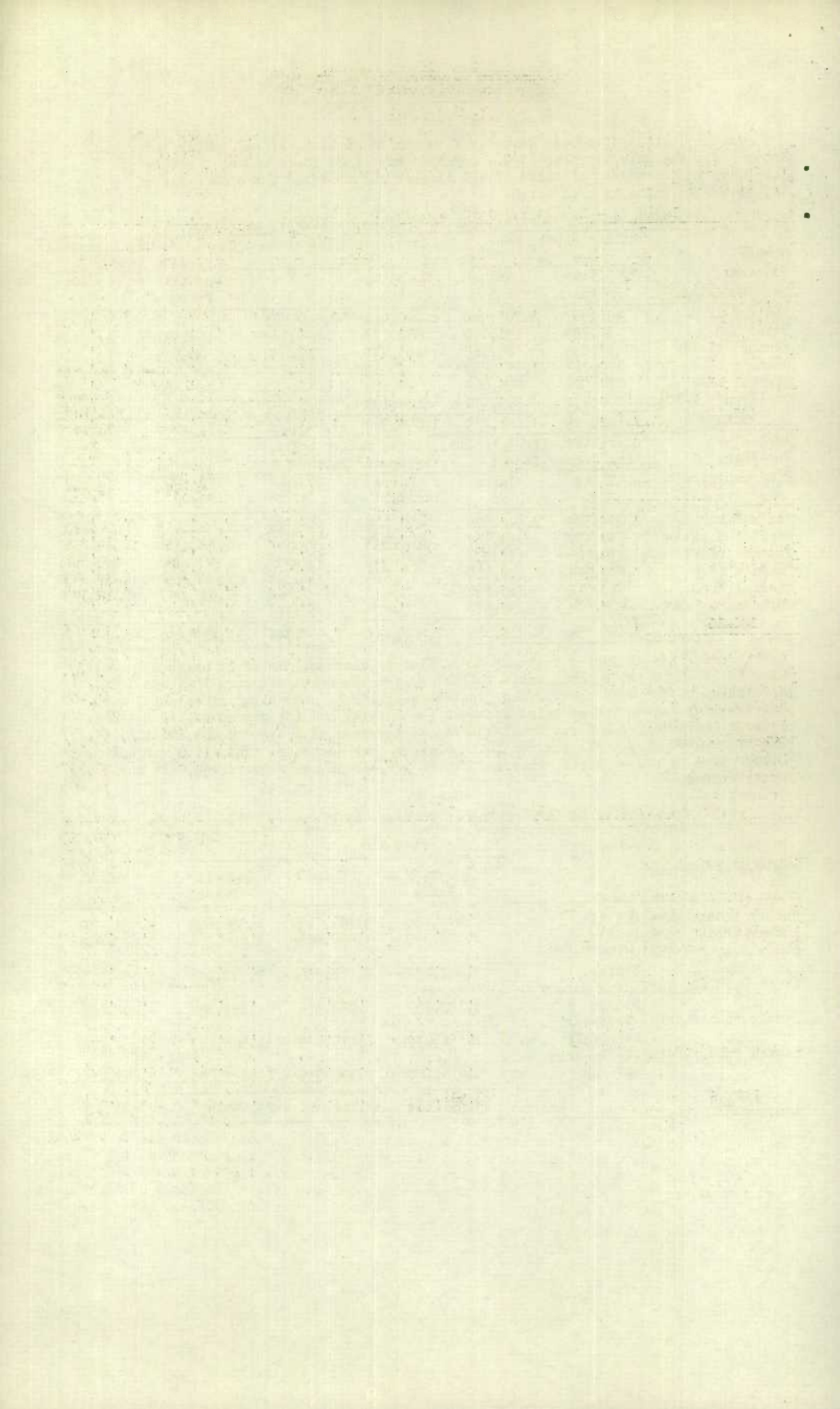
Table 4. - Rubber footwear Production by Classes and Sizes, 1929.

Rubber Footwear, kind and size	Rubber Boots, Knee and Hip		Lumbermen's Rubber Boots		Overshoes not including Jersey Storms	
	Quantity Pairs	Value \$	Quantity Pairs	Value \$	Quantity Pairs	Value \$
Men's 6-12	806,367	2,705,948	1,000,011	2,560,483	667,492	1,424,496
Boys' 1-5	87,793	191,070	332,778	598,169	107,531	176,185
Youths' 11-13	13,899	25,365	155,438	217,632	20,635	30,019
Women's 2½-8	629,217	1,353,562	41,369	70,827	1,525,454	3,449,588
Misses' 11-2	254,902	406,664	42,664	58,053	258,420	420,142
Children's 4-10½	200,451	269,130	124,108	138,797	139,554	202,588
TOTALS	1,992,629	4,951,739	1,696,368	3,643,961	2,719,086	5,703,018
Rubber Footwear, Kind and size	Overshoes, light, including Jersey Storms		Canvas rubber soled footwear, Balmorals		Canvas rubber soled footwear, oxfords	
	Pairs No.	Value \$	Pairs No.	Value \$	Pairs No.	Value \$
Men's 6-12	2,204,324	1,942,526	496,722	596,525	1,626,155	1,648,406
Boys' 1-5	580,477	414,657	672,963	700,648	1,528,316	1,321,532
Youths' 11-13	230,166	137,506	233,667	196,649	891,265	657,606
Women's 2½-8	1,870,084	1,211,510	13,978	14,319	4,524,492	3,874,632
Misses' 11-2	512,819	265,890	9,427	7,442	1,537,087	1,091,340
Children's 4-10½	495,984	236,597	79,676	52,193	1,714,885	1,052,295
TOTALS	5,893,854	4,208,686	1,506,433	1,567,776	11,822,200	9,645,811

A comparison of rubber footwear production by classes, number of pairs and selling value is given in the summary table following, for the calendar years 1928 and 1929. The classes of footwear showing the greatest quantity of production as compared with 1928 were (a) canvas rubber soled footwear (balmorals) and (b) canvas rubber soled footwear (oxfords), the first named showing an increase of 348,394 pairs and the next 2,808,098 pairs. All the remaining classes show decreased production varying from 56,207 pairs in rubber boots, knee and hip to 928,172 pairs in overshoes, not including Jersey storms.

Comparative Summary of Rubber Footwear by Classes, 1928 and 1929.

Classes of footwear	1928		1929	
	Quantity Pairs	Value \$	Quantity Pairs	Value \$
Rubber boots, knee and hip	2,048,836	5,701,563	1,992,629	4,951,739
Rubber boots, lumbermen's	1,893,799	4,496,425	1,696,368	3,643,961
Overshoes, not including Jersey Storms	3,647,258	8,153,385	2,719,086	5,703,018
Light rubbers, including Jersey Storms	6,179,130	5,080,574	5,893,854	4,208,686
Canvas rubber-soled footwear, balmorals	1,158,039	1,275,629	1,506,433	1,567,776
Canvas rubber-soled footwear, oxfords	9,014,102	7,705,035	11,822,200	9,645,811
TOTALS	23,941,164	32,412,611	25,630,570	29,720,991



OTHER MANUFACTURES OF RUBBER

The production of rubber goods other than tires and footwear is given in Table 5 for the calendar years 1928 and 1929. An increase in the total value of production as compared with 1928 amounting to \$739,965 is the outstanding feature. In quantity of production there appears an increase in nearly all of the principal items of the table, the more important being rubber soles and heels, battery containers, rubber hose and rubber mats and matting. The list of articles manufactured was extended in 1926 to include such items as friction tape, rubber tiling and sheet flooring, battery containers, wringer rolls, roll covering other than wringer, fruit jar rings, hospital sheeting and hard rubber. A further extension of the list of products was made in 1930 which will include auto topping, dipped rubber goods, moulded rubber goods, golf balls, hot water bottles, plumbing supplies, stationery goods, toys, tire patches and tire repair kits.

Table 5. - Other Manufactures of Rubber Goods, 1928 and 1929.

Articles Manufactured		1928		1929	
		Quantity	Selling Value \$	Quantity	Selling Value \$
Rubber clothing, coats	No.	90,300	339,576	83,159	305,725
" " headwear	"	18,575	15,881	20,334	19,083
" " all other (value only)	\$	-	218,920	-	206,473
Rubber and composition soles	Prs.	3,534,885	896,363	6,453,291	1,503,084
" " half soles	"	499,163	130,128	819,105	185,561
" " heels	"	20,600,402	1,611,319	21,193,603	1,433,643
Tire repair gums and fabrics	Lb.	1,819,505	864,347	1,555,126	882,173
Friction tape and splicing compound	"	685,460	232,064	852,909	316,108
Rubber cement	Gal.	225,562	227,919	172,079	166,596
Rubber mats and matting	Lb.	2,265,465	426,016	2,718,938	525,994
Rubber tiling and sheet flooring	"	746,257	170,444	970,546	223,619
Sheet packing	"	399,346	91,710	414,361	89,406
Battery containers	No.	1,702	3,269	444,177	249,614
Rubber belting	Lb.	6,066,377	3,033,531	5,585,380	2,654,533
Rubber hose	"	5,109,685	2,096,549	5,816,089	2,196,194
Hospital sheeting	Yd.	185,825	84,842	195,951	90,337
Wringer rolls	Lb.	-	27,093	-	31,405
Roll covering, all other than wringer	Lb.	-	222,726	-	257,096
Fruit jar ring rubbers	"	388,099	113,411	451,370	130,913
Drug sundries (value only)	-	-	751,144	-	719,476
Hard rubber	-	-	271,657	-	325,604
All other rubber goods specified (value only)	\$	-	3,136,451	-	3,132,665
All other rubber goods not specified (value only)	\$	-	122,104	-	182,227
TOTALS		-	15,087,564	-	15,827,529

Capital Investment

The amount of capital invested in each section of the rubber industry is classified under two heads -- fixed capital which includes land, buildings, machinery and tools and working capital including materials and supplies on hand, stocks in process of manufacture, finished products on hand and cash, trading and operating accounts, etc. Table 6 presents these statistics for each section of the industry by provinces. The total capital investment increased over 1928 by \$3,418,412, of which \$2,742,202 appears in the item of fixed capital, there being also an increase in working capital of \$676,210. The rubber goods section which includes tires accounted for \$56,697,543 or 76.75 per cent of the investment and the rubber footwear section for \$17,179,935 or 23.25 per cent. Apportioned by provinces, Ontario furnished 83.8 per cent of the total investment, Quebec 15.4 per cent and British Columbia .8 per cent. Fixed capital represented 57.9 per cent and working capital 42.1 per cent of the total capital invested in the industry.

THE RUBBER INDUSTRY IN CANADA, 1929.
Capital Investment (Continued).

8.

Table 6. - Capital Invested in the Rubber Industry, 1929.

Provinces	Fixed Capital	Working Capital		Total Capital
	Land, buildings, machinery and tools	Materials and supplies on hand, stocks in process, etc.	Cash, trading and operating accounts, etc.	
	\$	\$	\$	\$
(a) The Rubber Goods Section -				
Ontario and Br. Columbia	31,394,359	13,803,437	10,343,026	55,540,822
Quebec	419,587	358,836	378,298	1,156,721
TOTALS	31,813,946	14,162,273	10,721,324	56,697,543
(b) The Rubber Footwear Section -				
Ontario	4,082,915	1,958,904	881,395	6,923,214
Quebec	6,877,978	1,994,949	1,383,794	10,256,721
TOTALS	10,960,893	3,953,853	2,265,189	17,179,935
Total capital invested in the Rubber Industry	42,774,839	18,116,126	12,986,513	73,877,478
Percentage of total capital	57.9	24.5	17.6	100.0

Employment Statistics

Employment in the Rubber Industry in Canada during the calendar year 1929 is shown in the following series of tables:

Table 7. Employees by classes, sex and remuneration, 1929.

Table 8. Employees by months, 1929.

Table 9. (a), (b), (c). Working time of plants and employees, 1929.

The number of persons employed in each section of the industry is shown by classes, sex, remuneration and provinces in Table 7. The net number of employees increased during the year by 725, of whom 748 were males whilst females decreased by 23. The province of Ontario accounted for 12,398 of the total employed or 69.6 per cent and Quebec for 5,333 employees or 29.9 per cent. The total payments for salaries and wages rose from \$18,943,730 in 1928 to \$20,137,498 in 1929, an increase of \$1,193,768 or 6.3 per cent. The average salary, irrespective of sex, rose from \$1679.60 in 1928 to \$1840.18 in 1929, or 9.6 per cent, whilst the average wage rose from \$1026.15 in 1928 to \$1028.35 in 1929 or a little over one-fifth of one per cent.

Table 7. - Employees by classes, sex and remuneration, 1929.

Classes of employees	Employees		Total Salaries and Wages
	Male	Female	
	No.	No.	\$
In the rubber goods section -			
Salaried employees	1,119	303	2,846,560
Wage-earners	6,999	1,350	10,059,520
TOTALS	8,118	1,653	12,906,180
In the rubber footwear section -			
Salaried employees	632	205	1,310,308
Wage-earners	4,416	2,772	5,918,013
Piece-workers	-	24	2,997
TOTALS	5,048	3,001	7,031,318
In both sections of the industry -			
Salaried employees	1,751	508	4,156,968
Wage-earners	11,415	4,122	15,977,533
Piece-workers	-	24	2,997
TOTALS	13,166	4,654	20,137,498

Employees by Provinces, 1929.

Classes of employees		Ontario	Quebec	British Columbia	Canada
Salaried employees, male	No.	1,278	458	15	1,751
" " female	No.	361	142	5	508
Total Salaries	\$	3,214,793	905,685	36,490	4,156,968
Wage-earners, male	No.	8,540	2,810	65	11,415
" " female	No.	2,195	1,923	4	4,122
Total Wages	\$	12,178,170	3,726,767	72,596	15,977,533
Outside Piece-workers-female	No.	24	-	-	24
Total Payments	\$	2,997	-	-	2,997
Total Employees	No.	12,398	5,333	89	17,820
Total Salaries, Wages, Etc.	\$	15,395,960	4,632,452	109,086	20,137,498

Employment Statistics (continued)

Tables 8(a) and 8(b) present statistics of wage-earning employees by number and sex for each month of the year and for each section of the industry. Employment in the rubber goods section was at its highest in the months of March to June and at the lowest from September to December, whilst in the footwear section it was highest in July to October and lowest in January to April. According to sex, employment in the rubber goods section was in the approximate ratio of 5 males to 1 female and in the footwear section 5 males to 3 females. The average of employment in each section was high and well maintained throughout the year.

Table 8(a). - Wage-earners by months and sex in Rubber Goods Section, 1929.

Months	Wage-earners		Months	Wage-earners	
	Males No.	Females No.		Males No.	Females No.
January	7,277	1,313	July	7,271	1,342
February	7,450	1,322	August	6,555	1,356
March	7,768	1,306	September	6,183	1,400
April	7,956	1,312	October	6,020	1,397
May	8,021	1,338	November	5,878	1,385
June	7,662	1,325	December	5,770	1,358
Total number at employment during the year				33,826	16,154
Average monthly employment				6,999	1,350

Table 8(b). - Wage-earners by months and sex in the Rubber Footwear Section, 1929.

Months	Wage-earners		Months	Wage-earners	
	Males No.	Females No.		Males No.	Females No.
January	4,187	2,744	July	4,657	2,954
February	4,154	2,600	August	4,639	3,039
March	4,152	2,539	September	4,482	2,968
April	4,014	2,351	October	4,606	3,014
May	4,322	2,568	November	4,621	2,980
June	4,408	2,657	December	4,555	2,651
Total number at employment during the year				52,797	33,065
Average monthly employment				4,416	2,772

Working time of plants and employees. - The working time of plants and employees is shown in Tables 9(a), 9(b) and 9(c) for the calendar year 1929 for each of the provinces and for each section of the industry. Full time operations in the rubber goods section for the Dominion were 85.08 per cent of the total possible operating time which for Census purposes is reckoned at 304 days, part-time operations 5.26 per cent and idle time 9.66 per cent, whilst in the footwear section full time operations were 81.91 per cent, part-time 2.53 per cent and idle time 15.56 per cent.

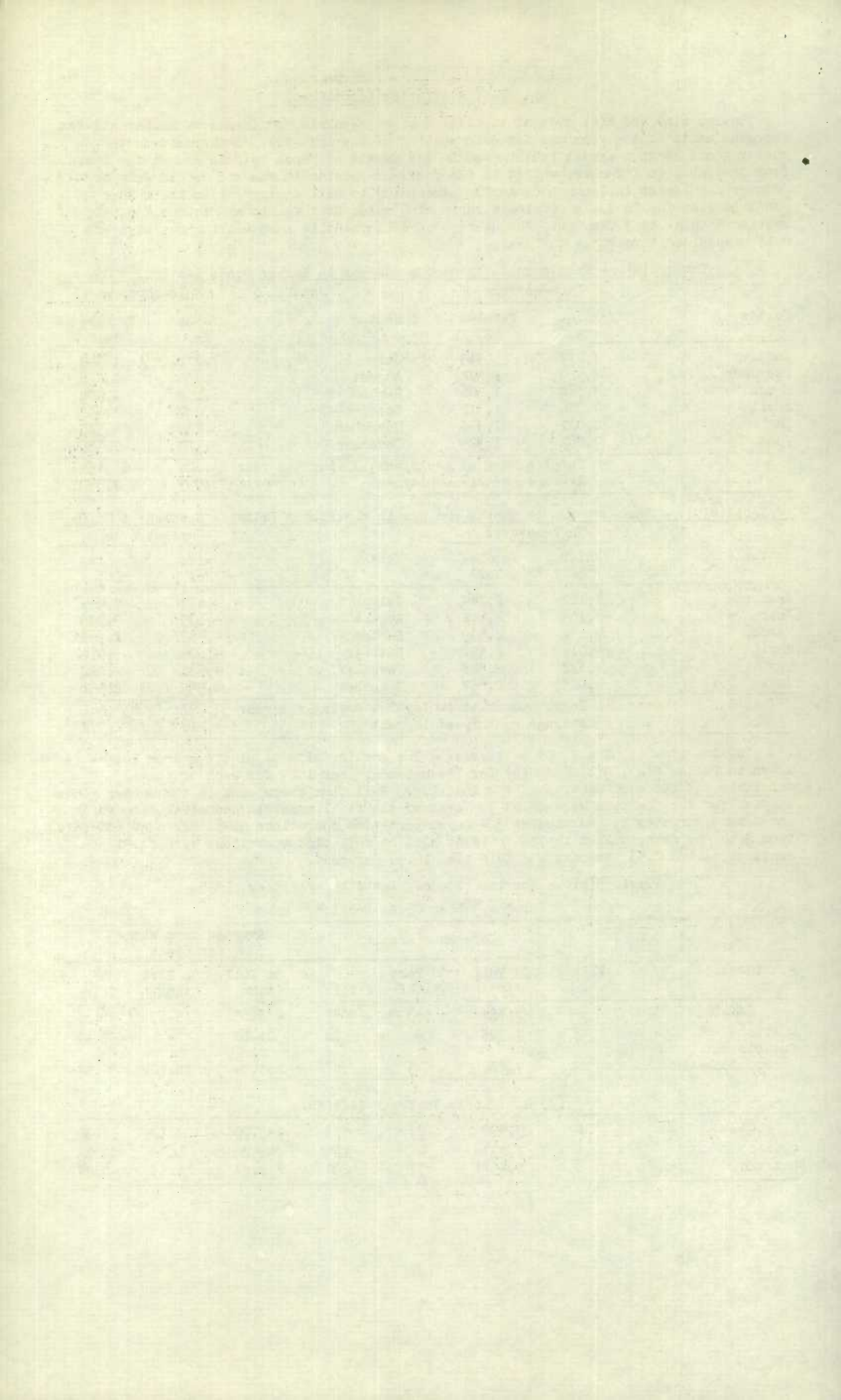
Table 9(a). - Working time of plants by provinces, 1929.

(1) The Rubber Goods Section.

Provinces	No. of Plants	Days in operation			Average days worked per plant		
		On Full time	On Part time	Idle	On Full time	On Part time	Idle
CANADA	34	3,794	543	999	258.65	15.99	29.38
Quebec	5	1,508	-	12	301.60	-	2.40
Ontario and Br. Columbia	29	7,286	543	987	251.24	18.72	34.04

(2) The Rubber Footwear Section.

CANADA	10	2,490	77	473	249.00	7.70	47.30
Quebec	4	1,033	-	183	258.25	-	45.75
Ontario	6	1,457	77	290	242.83	12.83	48.34



Employment Statistics (continued).

The number and percentage of wage-earners in the month of highest employment working specified hours is shown in Table 9(b) for each section and for Canada and the provinces. Whilst no representative working day appears in the rubber goods section, that of the 9 hour day seems fairly defined in the footwear section. It will be further noted that there is a considerable variation in the working hours as between provinces in each of the sections, the 9 and 10 hour day prevailing in Quebec and the 8 and 9 hour day in Ontario and British Columbia.

Table 9(b). - Hours worked by wage-earners in month of highest employment, 1929.

(1) In the Rubber Goods Section.

Provinces	Wage-earners in month of highest employment working per day of				Percentage of wage-earners working			
	8 hours or less	9 hours	10 hours	Over 10 hours	8 hours or less	9 hours	10 hours	Over 10 hours
CANADA	3,797	3,395	1,643	910	38.96	34.84	16.86	9.34
Quebec	-	78	262	55	-	19.75	66.33	13.92
Ontario and Br. Columbia	3,797	3,317	1,381	855	40.61	35.48	14.77	9.14

(2) In Rubber Footwear Section.

CANADA	261	5,506	1,961	655	3.11	65.68	23.40	7.81
Quebec	217	2,716	1,535	409	4.45	55.69	31.47	8.39
Ontario	44	2,790	426	246	1.26	79.58	12.15	7.01

In Table 9(c) the hours worked in month of highest employment and the standard weekly working hours are shown by provinces for each section. It should be noted that the statistics relating to hours of labour in columns 1, 2 and 3 are compiled from figures based on month of highest employment, while those in columns 4 and 5 represent the standard weekly hours of labour for the establishments reporting and therefore, no comparison between daily and weekly hours of labour should be made. The average daily hours of labour in month of highest employment in the Dominion was 8.92 in the rubber goods section and 9.32 in the footwear section, whilst the provinces show considerable variation in the average daily hours in both sections. The average standard weekly hours of labour in the Dominion were 48.97 in the rubber goods section and 50.70 in the footwear section with similar variations as between provinces.

Table 9(c). - Hours of Labour per day and per week, 1929.

(1) In Rubber Goods Section.

Provinces	Total hours worked and number of wage earners in month of highest employment			Standard working hours per week per establishment	
	Total hours	Total wage-earners	Average hours per wage-earner	Total	Averages
CANADA	86,916	9,745	8.92	1,665	48.97
Quebec	3,899	395	9.87	264	52.80
Ontario and Br. Columbia	83,017	9,350	8.88	1,401	48.31

(2) In Rubber Footwear Section.

CANADA	78,129	8,383	9.32	507	50.70
Quebec	45,824	4,877	9.39	203	50.75
Ontario	32,305	3,506	9.21	304	50.67

Fuel Consumption

The quantity and cost value delivered at the factory or works of the various classes of fuel consumed by the industry in 1929 is shown separately for each section in Table 10. The total cost of fuel in the entire industry exclusive of electricity amounted to \$719,529, to which the rubber goods section contributed \$553,602 and the footwear section \$165,927. Bituminous coal was the principal fuel, forming 70 per cent of the total cost of all fuel. The cost of electricity purchased in 1929 was \$737,046 as compared with an expenditure of \$694,283 in 1928, an increase of over 6 per cent. There was a decrease as compared with 1928 in the cost of bituminous coal, amounting to \$41,112, whilst the cost of electricity purchased showed an increase of \$42,763.

Table 10. - Fuel Consumption by Classes, Quantity and Value, 1929.

Classes of Fuel	Unit of Measure	In Rubber Goods Section		In Rubber Footwear Section	
		Quantity	Value	Quantity	Value
			\$		\$
Bituminous coal, imported	Short ton	33,086	176,721	16,088	96,727
" " Canadian	" "	31,935	179,502	9,921	60,526
Anthracite coal, all grades	" "	11,652	58,972	-	-
Lignite coal, imported	" "	20	180	-	-
Coke	" "	357	1,876	-	-
Gasoline	Imp. Gal.	144,582	28,951	45,389	8,674
Kerosene or coal oil	" "	619	133	-	-
Fuel oils	" "	183,772	10,655	-	-
Gas, manufactured	M cu. ft.	12,488	11,206	-	-
Gas, natural	" " "	1,442	1,226	-	-
All other fuel	-	-	84,180	-	-
Electricity	-	-	597,561	-	132,485
TOTAL COST	-	-	1,151,163	-	305,412

Power Installed

The power installed in the industry is shown in Table 11 for each section of the industry by classes, number of units in each class and the horsepower according to manufacturers' rating. The total manufacturing horsepower installed in both sections in 1929 was 61,115 as against 57,168 in 1928. Steam power increased by 150 h.p., and water and other power decreased by 110 h.p. Electric power increased by 3,907 h.p., thus indicating a net increase in horsepower installation of 3,947.

The number of boilers installed for any purpose in 1929 was 81 with a boiler horsepower capacity of 13,990.

Table 11. - Power Installation by Sections, 1929.

Classes of power	Rubber Goods Section		Rubber Footwear Section	
	Units	Horsepower according to manufacturers' rating	Units	Horsepower according to manufacturers' rating
	No.		No.	
Steam engines and turbines	12	1,125	3	435
Gasoline engines	-	-	-	-
Hydraulic turbines or water wheels	-	-	5	2,050
Total primary power	12	1,125	8	2,485
Electric motors -				
Operated by purchased power	2,211	43,975	498	13,530
Operated by power generated by the establishment	2	60	85	896
Total electric motors	2,213	44,035	583	14,426
Total power used in manufacturing	2,223	45,100	506	16,015

Materials Used

The quantity and the cost value at the factory of the materials used in each section of the industry is presented in Table 12. Compared with 1928 there was a decrease in the cost of materials used in the whole industry, the total for that year being \$45,118,570, whereas in 1929 such cost had fallen to a total of \$42,940,747, representing a decrease of 4.82 per cent. Raw rubber was the principal item being nearly 37.7 per cent of the total cost of materials in 1929 as compared with almost 44 per cent in 1928, the decreased percentage being due to a marked decline in the average price of the commodity from 41 cents per lb. in 1927 to 29.3 cents in 1928 and to 21.2 cents in 1929. The quantity of reclaimed rubber used in the industry in 1928 was 26,451,017 pounds valued at \$1,950,660 or an average cost of 7.4 cents per lb. as compared with a total of 25,146,289 pounds worth \$1,736,049 or an average price of 6.9 cents per lb. in 1929. The second largest item of materials was tire duck of which 19,698,097 lbs. valued at \$9,702,844 were consumed in 1929 as against 18,042,361 pounds worth \$8,804,342 in 1928. The average price of all ducks was slightly higher in 1929 than in 1928, whilst stockinette sheeting was lower as the following table indicates.

		<u>Average price 1928.</u>	<u>Average price 1929.</u>
Rubber, raw	lb.	.293 cents	.212 cents
Rubber, reclaimed	lb.	.074 cents	.069 "
Tire duck	lb.	.483 "	.492 "
Hose and belting duck	lb.	.395 "	.402 "
Shoe duck	Yd.	.531 "	.531 "
Stockinette sheeting	lb.	.690 "	.607 "

The remaining items of materials show an increase in total cost value over 1928 amounting to \$719,632.

Table 12. - Materials used by quantity and cost value, 1929.

Classes of Materials		In Rubber Goods Section		In Rubber Footwear Section	
		Quantity	Cost Value \$	Quantity	Cost Value \$
Rubber, raw	lb.	64,892,536	13,492,674	11,257,040	2,679,227
Rubber, reclaimed	"	19,566,544	1,350,836	5,579,745	385,213
Tire duck	"	19,698,097	9,702,844	-	-
Hose and belting duck	"	3,089,302	1,215,959	701,801	307,128
Shoe duck	Yd.	514,909	193,663	1,342,487	791,843
Shoe duck	lb.	-	-	227,511	105,885
Stockinette sheeting	lb.	312,162	203,583	843,216	437,250
Miscellaneous cotton (value only)		-	1,036,796	-	1,316,699
Cocks, valves, etc. (value only)		-	663,683	-	44,906
Chemicals and mineral compounds (value only)		-	2,929,702	-	1,064,275
All other materials (value only)		-	2,428,901	-	2,339,673
TOTAL COST		-	33,408,648	-	9,532,099

IMPORTS OF RUBBER AND RUBBER GOODS

Table 13 shows the quantity and value, when available, of all rubber and manufactures of rubber entering Canada for consumption during the calendar year 1929. Raw and partly manufactured materials aggregated in value \$19,100,153, whilst the wholly manufactured totalled \$3,829,219. Of the total value of imports, goods to the value of \$21,278,787 entered Canada from the United States, \$699,680 from the United Kingdom and \$950,905 from other countries.

Table 13. - Rubber and Manufactures of Rubber Imported for Consumption, 1929.

(Calendar Year)				
Articles Imported by Principal Countries	Quantity	Value \$	Articles Imported (Cont'd.)	Value only \$
Raw and Partly Manufactured			Rubber, Manufactured	
Balata, crude lb.			Belting, rubber	
United Kingdom	2,512	1,678	United Kingdom	16,298
United States	3,147	1,003	United States	182,126
Other countries	4	4	Other countries	1,334
Total	5,663	2,685	Total	199,758
Rubber and Gutta Percha, lb.				
Crude			Cement, rubber	
United Kingdom	177,440	33,501	United Kingdom	576
United States	75,618,892	16,361,978	United States	63,596
Straits Settlements	3,425,290	672,149	Other Countries	3,031
Ceylon	187,952	42,818	Total	67,203
Dutch East Indies	97,857	18,767	Clothing or rubber	
Other Countries	4,388	824	United Kingdom	191,095
Total	79,511,819	17,130,037	United States	383,368
Rubber, hard, in sheets lb.			Germany	39,210
United Kingdom	268	90	Other Countries	7,747
United States	85,096	42,416	Total	621,420
Other Countries	98	66	Elastic webbing	
Total	85,462	42,572	United Kingdom	73,893
Rubber, hard in tubes			United States	306,814
United States	-	18,035	Other Countries	11,294
Total	-	18,035	Total	392,001
Rubber, powdered lb.			Gloves, rubber	
United Kingdom	350	6,620	United Kingdom	389
United States	66,595	246,772	United States	19,502
Other Countries	-	-	Other Countries	1,454
Total	66,945	253,392	Total	21,445
Rubber, recovered lb.			Hose, rubber	
United Kingdom	-	-	United Kingdom	11,042
United States	173,945	1,187,473	United States	261,131
Total	173,945	1,187,473	Other Countries	688
Rubber, substitute lb.			Total	272,861
United Kingdom	1,917	17,301	Hot water bottles	
United States	15,977	172,516	United Kingdom	13,105
Other Countries	421	13,849	United States	35,368
Total	18,315	203,666	Other Countries	321
Rubber thread, not covered lb.			Total	48,794
United Kingdom	32,655	32,368	Mats and matting, rubber	
United States	242,387	229,875	United Kingdom	1,347
Other Countries	58	50	United States	116,775
Total	275,100	262,293	Other Countries	905
			Total	119,027
			Baskets	
			United States	5,108
			Norway	14,312
			Total	19,420

Imports of Rubber and Rubber Goods (Concluded)

Table 13. - Rubber and Manufactures of Rubber Imported for Consumption, 1929.
(Calendar Year)

Articles Imported by Principal Countries	Quantity	Value \$	Articles Imported	Value only \$
Rubber, Manufactured, Cont'd.			Rubber, Manufactured, Cont'd.	
Boots and shoes, rubber	Pair		Packing, rubber	\$
United Kingdom	No. 8,730	4,734	United Kingdom	2,356
United States	61,760	79,820	United States	66,793
Other Countries	3,697	2,402	Other Countries	6
Total	74,187	86,956	Total	69,155
Tires for bicycles - Pneumatic casings and inner tubes	No.		Manufactures of India rubber and gutta- percha, n.o.p.	
United Kingdom	4,238	3,685	United Kingdom	\$ 204,795
United States	770	1,709	United States	1,246,600
France	22,480	8,158	France	28,728
Other Countries	1,102	413	Germany	64,729
Total	28,590	13,965	Other Countries	24,480
Tires, pneumatic rubber tire casings, n.o.p. -	No.		Total	1,569,332
United Kingdom	1,125	5,334	Total Imports whether raw or partly manu- factured	\$ 19,100,153
United States	18,251	267,593	Wholly Manufactured	\$ 3,829,219
Other Countries	617	3,163	Grand Total	\$ 22,929,372
Total	19,993	276,090		
Tires, inner tubes, n.o.p.	No.		Total Imports by countries and value	\$
United Kingdom	41	137	United Kingdom	699,630
United States	2,307	7,898	United States	21,278,787
Other Countries	-	-	Ceylon	42,818
Total	2,348	8,035	France	36,886
Tires, solid rubber for automobiles and motor trucks	No.		Germany	103,939
United States	827	22,728	Norway	14,312
Total	827	22,728	Straits Settlements	572,149
Tires, solid rubber, n.o.p.			Dutch East Indies	18,767
United Kingdom	-	3,223	Other Countries	62,034
United States	-	19,341	Total	22,929,372
Other Countries	-	-		
Total	-	22,564		
Golf Balls	Doz.			
United Kingdom	27,923	84,065		
United States	635	2,234		
Total	28,558	86,299		
Heels, rubber	Pairs			
United Kingdom	9,890	746		
United States	1,802,715	83,796		
Other Countries	-	-		
Total	1,812,605	84,542		

THE RUBBER INDUSTRY IN CANADA, 1929.

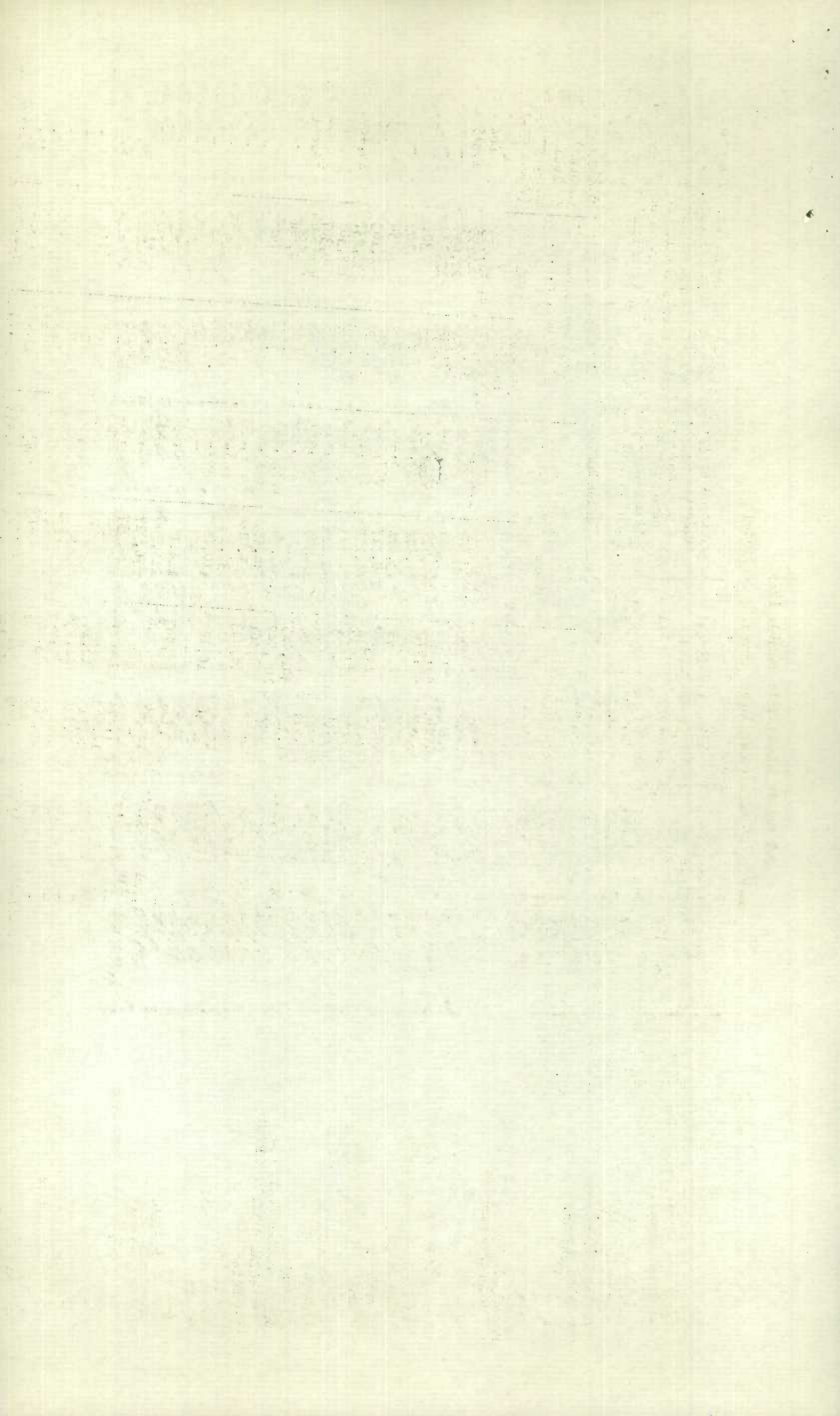
15.

Exports of Rubber and Rubber Goods.

The quantity and value of goods, the produce of Canada, exported to Other Countries, is shown in Table 14, by classes and countries. The total value of goods exported during the calendar year 1929 amounted to \$32,169,510, an increase over 1928 of \$1,476,048 or nearly 4.8 per cent. The principal articles exported were pneumatic tires (casings) \$16,385,869, canvas shoes with rubber soles \$6,190,707, boots and shoes of rubber \$3,546,853 and pneumatic tires, (inner tubes) \$2,255,370. The destination of Canadian exports by countries shows that of this total, goods to the value of \$5,925,128 went to the United Kingdom, \$4,044,387 to New Zealand, \$3,979,355 to the Argentine Republic, \$2,117,999 to British South Africa, \$1,872,606 to British India, \$1,572,687 to Brazil and \$273,502 to Australia. Approximately 51.4 per cent of all exports went to British dominions and dependencies.

Table 14. - Exports of Canadian Produce by Classes and Countries, for the calendar year 1929.

Principal Countries to which Exported	Waste Rubber		Belting of Rubber		Canvas Shoes with Rubber Soles		Boots and Shoes of Rubber, n.o.p.		Clothing (Rubber) including waterproofed (Value only)
	Quantity Cwt.	Value \$	Quantity lb.	Value \$	Quantity Pairs	Value \$	Quantity Pairs	Value \$	
United Kingdom	1,542	3,202	344,153	115,782	1,586,021	1,112,457	1,338,892	2,095,453	684
Australia	-	-	38,122	18,703	57,477	56,574	35,555	56,799	1,319
British South Africa	-	-	54,589	22,810	690,483	342,518	14,721	22,656	-
British India	-	-	57,141	20,978	667,878	421,557	17,430	12,127	-
Barbados	-	-	468	370	50,681	38,474	547	307	27
Ceylon	-	-	212	73	3,811	3,189	199	181	-
Jamaica	-	-	3,864	1,393	258,717	217,532	146	58	5
Other British West Indies	-	-	1,940	1,639	267,172	235,785	1,530	1,103	226
Newfoundland	-	-	20,716	11,023	781	574	258,973	233,637	14,400
New Zealand	-	-	142,628	75,640	881,111	650,239	210,661	327,301	70
Other British Dominions	-	-	77,477	33,004	206,771	166,875	8,550	8,307	50
TOTAL BRITISH EMPIRE	1,542	3,202	741,310	301,415	4,670,903	3,285,774	1,887,204	2,757,929	16,861
Argentina	-	-	320,006	109,542	3,041,887	1,798,714	5,718	4,686	-
Belgium	106	638	30,460	8,461	38,399	30,352	9,380	20,415	-
Brazil	-	-	73,396	28,823	11,514	6,893	295	1,141	-
China	62	37	-	-	36,138	23,994	971	637	-
Chili	-	-	32,336	16,164	210,666	144,006	6,973	5,660	-
Czecho-Slovakia	-	-	-	-	-	-	87	111	-
Denmark	-	-	135,306	46,903	124,192	80,836	271,265	477,895	-
France	1,711	9,269	380	136	115,100	88,138	24,191	56,627	-
Germany	838	4,118	-	-	76,327	49,587	36,431	69,589	-
Italy	-	-	7,292	2,636	16,037	10,860	34,845	88,760	-
Japan	625	4,487	12,863	4,961	475	304	-	-	780
Netherlands	-	-	28,115	12,142	11,749	9,946	3,608	11,097	-
Dutch East Indies	-	-	27,438	11,034	55,565	45,385	-	-	-
Spain	-	-	31,952	11,464	7,430	5,979	-	-	-
Sweden	-	-	10,168	3,288	632	454	5,355	12,649	-
United States	157,150	257,731	126	81	2,475	2,278	125	346	2,658
Other Countries	-	-	20,503	7,479	870,407	607,207	33,490	39,311	10,042
TOTAL FOREIGN COUNTRIES	160,492	276,280	730,341	263,194	4,618,993	2,904,933	432,734	788,924	13,400



Exports of Rubber and Rubber Goods. - Concluded

Principal Countries to which Exported	Pneumatic Tires Casings		Pneumatic Tires Inner Tubes		Tires for Vehicles Solid Rubber		Hose of Rubber	All other Manufactures of Rubber	Total Value of Exports by Countries
	Quantity No.	Value \$	Quantity No.	Value \$	Quantity No.	Value \$	Value Only \$	Value Only \$	
United Kingdom	45,527	511,204	15,631	30,059	-	-	24,838	2,031,449	5,925,128
Australia	8,118	106,892	816	1,483	-	-	1,282	30,450	273,502
British South Africa	167,692	1,420,230	158,458	200,813	42	1,051	40,947	26,974	2,117,999
British India	140,063	1,210,450	126,206	147,336	742	18,412	21,434	20,312	1,872,606
Barbados	1,669	18,603	1,423	2,150	8	270	1,049	2,227	63,477
Ceylon	12,210	108,266	7,188	9,280	164	2,983	218	950	125,140
Jamaica	14,866	142,493	12,557	17,105	308	5,668	3,358	15,050	402,662
Other British West Indies	13,198	143,202	9,287	15,173	62	1,584	2,487	10,700	411,947
Newfoundland	717	6,373	820	1,151	8	159	7,093	3,376	277,866
New Zealand	260,584	2,528,345	183,289	283,681	564	22,647	78,769	77,495	4,044,387
Other British Dominions	69,118	668,514	82,866	118,338	158	3,322	10,563	17,126	1,025,851
TOTAL BRITISH EMPIRE	733,762	6,864,572	598,541	826,569	2,056	56,096	192,038	2,236,109	16,540,565
Argentina	236,509	1,678,529	270,252	284,252	1,677	44,723	7,434	51,475	3,979,355
Belgium	51,443	463,804	27,668	40,004	-	-	109	2,197	565,900
Brazil	142,042	1,307,260	142,099	200,249	200	5,448	4,647	18,226	1,572,687
China	6,396	56,550	12,194	14,857	167	3,530	-	10,729	110,334
Chili	26,829	249,435	31,470	39,256	134	5,415	2,255	2,994	465,185
Czecho-Slovakia	15,266	247,804	15,090	47,931	-	-	-	72	295,918
Denmark	92,290	738,435	77,144	84,318	-	-	1,715	12,857	1,443,039
France	16,562	157,591	6,133	7,177	2	39	86	9,970	329,033
Germany	553	5,408	843	1,583	-	-	-	3,339	133,624
Italy	12,912	149,836	12,122	19,545	-	-	116	253	272,006
Japan	46,496	632,867	55,790	108,288	1,014	30,340	6,915	4,449	793,391
Netherlands	33,292	407,684	32,788	56,519	28	1,042	1,488	27,706	527,624
Dutch East Indies	73,885	565,381	103,807	121,327	348	6,206	5,667	20,925	775,925
Spain	59,836	669,029	36,268	57,596	-	-	10	4,173	748,251
Sweden	37,140	301,402	34,897	51,747	-	-	1,252	12,944	383,736
United States	3,030	29,921	1,922	1,583	78	1,539	61,077	14,772	371,986
Other Countries	158,707	1,860,361	185,691	292,569	462	12,090	8,814	22,675	2,860,871
TOTAL FOREIGN COUNTRIES	1,013,188	9,521,297	1,046,178	1,428,801	4,110	110,372	101,585	219,756	15,628,945

Appendix A. -

The following table shows the world production (net exports) of both plantation and wild rubber from 1905 to 1929 by quantity and per cent.

WORLD PRODUCTION, PLANTATION AND WILD RUBBER, 1905-1929.

Years	Total Plan- tation tons	Total Wild, Tropical America and Africa - tons	World Production		
			Total tons	Plantation per cent	Wild Per cent
1905	174	59,320	59,494	0.3	99.7
1906	577	62,004	62,581	0.9	99.1
1907	1,157	66,013	67,170	1.7	98.3
1908	1,796	64,770	66,566	2.7	97.3
1909	3,386	70,370	73,756	4.6	95.4
1910	7,269	73,477	80,746	9.0	91.0
1911	14,383	68,446	82,829	17.4	82.6
1912	30,113	73,834	103,949	29.0	71.0
1913	51,721	63,230	115,001	45.0	55.0
1914	73,153	48,052	121,205	60.4	39.6
1915	114,277	54,740	169,017	67.6	32.4
1916	158,933	51,036	210,079	75.7	24.3
1917	221,187	56,751	277,938	79.6	20.4
1918	180,800	36,711	217,511	83.1	16.9
1919	348,574	50,424	398,998	87.4	12.6
1920	304,671	36,464	341,135	89.3	10.7
1921	276,746	23,903	300,649	92.0	8.0
1922	378,232	27,878	406,110	93.1	6.9
1923	379,738	26,685	406,423	93.4	6.6
1924	386,703	28,000	414,703	93.2	6.8
1925	478,900	38,000	516,900	92.6	7.4
1926	585,100	33,000	618,100	94.6	5.4
1927	567,300	38,000	605,300	93.7	6.2
1928	621,000	27,000	648,000	95.8	4.2
1929	835,000	25,000	860,000	97.1	2.9

From the above table, the growing importance of plantation rubber over wild rubber will be noted. The peak of wild rubber production was reached in 1912 when approximately 74,000 tons were exported or 71 per cent of the total world production for the year. In 1914 plantation rubber for the first time exceeded that of wild constituting 60 per cent of the total net exports which in that year aggregated 121,205 tons. From between 1909 and 1910 up till 1926 the figures of percentage of wild and plantation rubber have been practically reversed.

The potential output of plantation rubber from present areas is estimated to reach 584,000 tons in 1926, 602,000 tons in 1927, 613,000 tons in 1928, 617,000 tons in 1929 and 621,000 tons in 1930 with restrictions removed and an ample supply of labour available. Wild rubber production is estimated at 20,000 tons per year.

In view of the rapid increase in the world consumption of rubber, an estimate of future requirements was undertaken by the Rubber Association of America which issued the following table:-

FUTURE AND POTENTIAL WORLD PRODUCTION AND CONSUMPTION AS ESTIMATED BY THE RUBBER ASSOCIATION OF AMERICA.

Years	Crude Rubber, Plantation and Wild	
	Estimated World Production Tons	Estimated World Consumption Tons
1926	606,000	575,000
1927	623,000	608,000
1928	635,000	641,000
1929	637,000	672,000
1930	641,000	703,000

Appendix B. - Manufacturers of Rubber Goods operating in Canada, 1929.

Name	Location	Products Made
American Wringer Co. of Canada, Ltd.	Farnham, Quebec	Rubber Goods
The Granby Elastic Web Ltd.	Granby, Quebec	Rubber Goods
The Miner Rubber Co. Ltd.	Granby, Quebec	Rubber Footwear and other rubber goods.
Dominion Rubber Co. Ltd.	1665 Notre Dame St. E., Montreal, Quebec.	Rubber Footwear and other rubber goods.
Dominion Rubber Co. Ltd. (Rubber Regenerating Co. of Canada, Ltd.)	1665 Notre Dame St. E., Montreal, Quebec.	Rubber Goods
The Columbus Rubber Co. of Montreal, Ltd.	2451 Demontigny St. E., Montreal, Quebec.	Rubber Footwear
Pall Mall Specialties	360 Recollet St., Montreal, Quebec.	Rubber Goods
Dominion Rubber Co. Ltd.	St. Jerome, Quebec.	Rubber Footwear
Panther Rubber Co. Ltd.	Sherbrooke, Quebec.	Rubber Goods
Niagara Rubber Goods Ltd.,	Beamsville, Ontario.	Rubber tubes
Goodyear Tire & Rubber Co. of Canada, Ltd.	Bowmanville, Ontario	Rubber tires and other rubber goods
Western Rubber Co. (Fred. N. Stubbs)	Caledon, Ontario.	Rubber Goods
Dominion Rubber Co. Ltd.	Elmira, Ontario.	Rubber Footwear
The Canadian General Rubber Co. Ltd.	Galt, Ontario.	Rubber Goods
The Northern Rubber Co. Ltd.	Guelph, Ontario.	Rubber Footwear
Sterling Rubber Co. Ltd.	Guelph, Ontario.	Rubber Goods
Bowes Whitt "Seal Fast" Co. Ltd.	103 John St. N., Hamilton, Ontario	Rubber Goods
Firestone Tire & Rubber Co. of Canada, Ltd.	Beach Road, Hamilton, Ont.	Rubber tires and other rubber goods
Canadian Goodrich Co. Ltd.	Kitchener, Ont.	Rubber Footwear, tires and other rubber goods
Dominion Rubber Co. Ltd.	Kitchener, Ontario.	Rubber Footwear
Dominion Rubber Co. Ltd.	Kitchener, Ontario	Rubber tires and other rubber goods
The Kaufman Rubber Co. Ltd.	Kitchener, Ontario	Rubber Footwear
Goodyear Tire & Rubber Co. of Canada, Ltd.	New Toronto, Ontario	Rubber tires and other rubber goods
Dominion Rubber Co. Ltd.	Port Dalhousie, Ontario	Rubber Footwear
Verner T. Smith Co. Ltd.	Rockwood, Ontario	Rubber Goods
G. L. Griffith & Sons Ltd.	315 Front St., Stratford, Ontario.	Rubber Goods
The Canadian I. T. S. Rubber Co. Ltd.	14-32 Alpine Avenue, Toronto, Ontario.	Rubber Goods
Dunlop Tire & Rubber Goods Co. Ltd.	87 Queen St. E., Toronto, Ontario.	Rubber tires and other rubber goods
Gutta Percha & Rubber Ltd.,	O'Hara Ave., Toronto, Ont.	Rubber tires, foot- wear and other rubber goods.
Hannon-Knight Limited	121 Prescott Avenue. Toronto, Ontario	Rubber Goods
Hannon Tire and Rubber Co. Ltd.,	1379 Bloor St. W., Toronto, Ontario	Rubber tires
Z. & S. Rubber Co. Ltd., and Seiberling Rubber Co. of Canada, Ltd.	99 Paton Road, Toronto, Ontario	Rubber tires and other rubber goods
Melton Rubber Co.	225 Jarvis St., Toronto.	Rubber Goods
I. B. Kleinert Rubber Co.	84 Wellington St. W., Toronto, Ontario	Rubber Goods
National Rubber Co. Ltd.	970 Queen St. E., Toronto, Ontario	Rubber Goods
S. C. Williams	450 Pacific Ave., Toronto, Ontario	Rubber Goods
Locktite Patch Co.	36½ Devonshire Road, Walkerville, Ontario.	Rubber Goods
Joseph Stokes Rubber Co. Ltd.	Welland, Ontario	Rubber Goods
Canadian Battery Container Corp. Ltd.	1165 McDougall Ave., Windsor, Ontario	Rubber Goods
De Vilbiss Manufacturing Co. Ltd.	237 Wellington Avenue, Windsor, Ontario.	Rubber Goods

Appendix B. - Manufacturers of Rubber Goods operating in Canada, 1929 - Concluded.

Name	Location	Products Made
The Wingham Rubber Co. Ltd.	Wingham, Ontario	Rubber Tires
The Woodstock Rubber Co. Ltd.	Woodstock, Ontario	Rubber Footwear
Gregory Tire & Rubber 1926 Ltd.	Port Coquitlam, B. C.	Rubber Tires
Durable Mat Co. (Canada) Ltd.	146 Superior Street, Victoria, B. C.	Rubber Goods

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