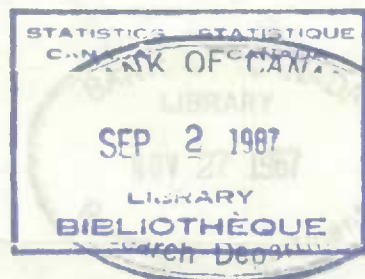


Canada. Bureau of Statistics
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33-206

ANNUAL



RUBBER INDUSTRIES

1965

ANNUAL CENSUS OF MANUFACTURES

Published by Authority of
The Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
Manufacturing and Primary Industries Division

November 1967
6506-600

Price: 50 cents

PUBLICATIONS

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RUBBER INDUSTRIES

1965

This industrial group comprises three separate industries defined as follows under the Revised Standard Industrial Classification:

Rubber Footwear Manufacturers.— Establishments primarily engaged in manufacturing all-rubber footwear and footwear having fabric uppers and rubber soles.

Tire and Tube Manufacturers.— Establishments primarily engaged in manufacturing rubber tires and tubes for automobiles, trucks, aircraft, tractors and other machinery and implements.

Other Rubber Industries.— Establishments primarily engaged in manufacturing rubber goods such as rubberized fabrics, mechanical rubber goods, rubber flooring and rubber sundries.

Although establishments in this industrial group are classified to one of the three industries concerned, on the basis of their principal manufacturing activity, many of them are not exclusively engaged in manufacturing products pertaining to the industry in which they are classified. For this reason, beginning with the 1960 report in this series, the annual tables in this report have gener-

ally presented data on the industrial group basis only. The sole exception to this practice in this report is Table 17 which gives a breakdown of the separate principal statistics for all three industries for 1963, 1964 and 1965 and Table 8, which does not include two-digit head offices in the breakdown by individual industry (see Explanatory Notes).

Tables 13A to 13D, inclusive, show respectively, in detail, the shipments of the four main groups of commodities made in this industry, namely, Footwear; Tires; Tubes; and Other Products. Since it is not possible, for technical reasons, to apply the adjustments for sales taxes, etc., to the shipments shown in these four tables, it has been necessary to add a special table, namely, Table 13.

Table 12 shows the details of the materials and supplies used in manufacturing by this industrial group, whereas Table 14 presents the shipments by all industries of certain commodities manufactured both in this and other industries. Tables 15 and 16 present 1965 data obtained from the monthly survey covering the consumption of rubber as a commodity.

A list of the establishments classified to this industrial group in the 1965 survey will be found at the end of this report. This list gives the particular industry in which the establishment was classified.

SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- amount too small to be expressed.
- p preliminary figures.
- r revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-65

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	93	14,298	30,644	57,524	5,276	150,069	331,135	169,847	10	33	21,821	95,737	175,685
1962													
Totals	90	15,664	34,117	66,331	5,550	170,771	353,962	180,528	9	31	22,788	104,203	187,712
1963													
Totals	93	16,879	36,187	71,846	5,921	189,212	386,730	194,613	10	32	24,162	110,974	204,603
1964													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	...	...	...	...	...	...	...	...	...	...	70	348	...
Quebec	30	x	x	x	x	x	x	x	x	x	x	x	x
Ontario	52	11,818	25,880	57,947	4,737	157,383	317,750	161,098	3	11	16,457	85,966	169,421
Manitoba	2	x	x	x	-	x	x	x	x	x	x	x	x
Saskatchewan .....	...	...	...	...	...	...	...	...	...	...	70	386	...
Alberta	5	x	x	x	x	x	x	x	-	-	x	x	x
British Columbia	6	71	160	326	39	447	1,231	734	x	x	275	1,463	902
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	95	17,575	38,175	79,354	6,315	208,955	426,624	218,403	7	27	24,972	122,530	228,333
1965													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	...	...	...	...	...	...	...	...	...	...	64	308	...
Quebec	32	5,297	11,205	19,636	1,461	45,031	96,169	50,008	3	13	7,365	31,334	51,776
Ontario	50	12,472	26,716	64,110	5,022	168,888	360,083	188,545	4	14	17,657	96,579	199,017
Manitoba	2	x	x	x	x	x	x	x	x	x	x	x	x
Saskatchewan .....	...	...	...	...	...	...	...	...	...	...	59	324	...
Alberta	5	x	x	x	x	x	x	x	-	-	x	x	x
British Columbia	7	x	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	96	18,185	38,839	85,938	6,707	223,052	474,489	247,429	10	39	26,206	134,151	259,667

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1964													
Under \$10,000	4	3	5	7	--	8	29	21	--	--	6	14	21
\$ 10,000 to \$ 24,999	5	9	17	23	--	36	95	61	4	14	12	32	69
25,000 " 49,999	6	11	22	39	6	103	226	115	1	3	18	77	138
50,000 " 99,999	6	26	54	89	9	218	439	219	1	5	33	123	218
100,000 " 199,999	5	67	137	223	11	254	703	452	1	5	82	331	608
200,000 " 499,999	16	313	615	1,076	128	2,181	5,159	2,894	--	--	421	1,737	3,218
500,000 " 999,999	8	415	897	1,463	156	2,223	5,621	3,250	--	--	506	2,034	3,572
1,000,000 " 4,999,999	22	2,913	6,120	10,809	902	23,278	54,280	30,694	--	--	3,693	15,257	30,796
5,000,000 and over	23	13,818	30,308	65,627	5,104	180,654	360,073	180,697	--	--	17,760	88,664	188,582
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	2,441	14,262	1,112
Totals	95	17,575	38,175	79,354	6,315	208,955	426,624	218,403	7	27	24,972	122,530	228,333
1965													
Under \$10,000	3	1	1	2	--	8	21	13	1	2	3	4	13
\$ 10,000 to \$ 24,999	4	6	11	18	1	27	73	47	4	14	7	19	56
25,000 " 49,999	5	12	22	42	5	56	168	110	3	13	16	61	116
50,000 " 99,999	9	37	72	126	12	329	638	301	2	10	48	174	301
100,000 " 199,999	5	42	68	126	11	313	648	329	--	--	46	211	385
200,000 " 499,999	13	250	511	933	98	2,304	4,369	2,024	--	--	344	1,544	2,217
500,000 " 999,999	11	585	1,219	2,071	236	3,135	7,950	4,584	--	--	699	2,812	4,775
1,000,000 " 4,999,999	23	3,186	6,756	11,819	891	27,012	61,005	33,051	--	--	4,179	17,457	34,753
5,000,000 and over	23	14,076	30,178	70,801	5,452	189,869	399,616	206,968	--	--	18,155	96,053	215,150
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	2,709	15,816	1,900
Totals	96	18,185	38,839	85,938	6,707	223,052	474,489	247,429	10	39	26,206	134,151	259,667

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1964													
Under \$10,000	5	4	7	10	--	11	39	29	--	--	9	21	29
\$ 10,000 to \$ 24,999	10	22	43	65	7	161	333	166	6	22	29	100	197
25,000 " 49,999	6	23	49	83	8	193	417	221	--	--	31	124	220
50,000 " 99,999	4	60	118	189	8	202	514	319	1	5	72	281	474
100,000 " 199,999	13	238	473	819	109	1,744	3,870	2,039	--	--	318	1,346	2,284
200,000 " 499,999	13	457	994	1,620	177	5,209	9,590	4,410	--	--	583	2,400	4,604
500,000 " 999,999	10	661	1,404	2,458	253	6,118	13,359	6,988	--	--	883	3,703	7,281
1,000,000 " 4,999,999	23	6,403	14,078	25,428	2,183	62,227	130,649	67,200	--	--	8,208	35,653	68,086
5,000,000 and over	11	9,707	21,008	48,684	3,571	133,090	267,854	137,031	--	--	12,398	64,640	144,047
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	2,441	14,262	1,112
Totals	95	17,575	38,175	79,354	6,315	208,955	426,624	218,403	7	27	24,972	122,530	228,333
1965													
Under \$10,000	4	1	1	2	--	11	33	21	1	2	4	5	21
\$ 10,000 to \$ 24,999	8	18	33	58	5	115	265	145	7	27	23	75	160
25,000 " 49,999	10	42	87	156	15	388	733	337	2	10	54	222	354
50,000 " 99,999	4	27	53	99	10	217	518	297	--	--	39	167	336
100,000 " 199,999	9	154	313	582	58	1,458	2,944	1,411	--	--	216	997	1,572
200,000 " 499,999	13	371	773	1,443	204	4,567	8,162	3,460	--	--	520	2,385	3,700
500,000 " 999,999	13	903	1,949	3,250	305	7,818	17,219	9,123	--	--	1,149	4,796	9,338
1,000,000 " 4,999,999	21	4,857	10,552	20,466	1,834	55,310	114,914	58,435	--	--	6,460	29,965	60,117
5,000,000 and over	14	11,812	25,076	59,879	4,277	153,168	329,701	174,198	--	--	15,032	79,724	182,173
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	2,709	15,816	1,900
Totals	96	18,185	38,839	85,938	6,707	223,052	474,489	247,429	10	39	26,206	134,151	259,667

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000							'000		'000	
1964													
Under \$10,000	5	4	7	10	--	11	39	29	--	--	9	21	29
\$ 10,000 to \$ 24,999	8	16	32	46	6	140	270	124	6	22	20	70	139
25,000 " 49,999	10	65	131	202	13	316	713	404	1	5	79	268	419
50,000 " 99,999	11	203	393	681	91	1,243	2,892	1,587	--	--	264	1,039	1,618
100,000 " 199,999	17	516	1,122	1,846	199	5,810	10,848	5,041	--	--	670	2,875	5,603
200,000 " 499,999	10	661	1,404	2,458	253	6,118	13,359	6,988	--	--	883	3,703	7,281
500,000 " 999,999	22	6,028	13,239	23,851	1,995	57,739	121,435	62,376	--	--	7,703	33,319	62,710
1,000,000 " 4,999,999	12	10,082	21,848	50,261	3,759	137,579	277,068	141,855	--	--	12,903	66,973	149,422
5,000,000 and over .....	...	...	...	...	...	...	...	...	...	...	2,441	14,262	1,112
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	2,441	14,262	1,112
Totals	95	17,575	38,175	79,354	6,315	208,955	426,624	218,403	7	27	24,972	122,530	228,333
1965													
Under \$10,000	4	1	1	2	--	11	33	21	1	2	4	5	21
\$ 10,000 to \$ 24,999	7	13	24	41	4	108	233	120	7	27	16	54	129
25,000 " 49,999	10	43	87	155	12	320	641	316	2	10	54	201	322
50,000 " 99,999	4	28	57	106	11	210	466	246	--	--	41	180	292
100,000 " 199,999	8	109	227	428	43	940	2,153	1,147	--	--	146	681	1,199
200,000 " 499,999	14	339	688	1,298	188	4,645	8,127	3,400	--	--	476	2,235	3,629
500,000 " 999,999	14	983	2,126	3,561	337	8,340	18,221	9,544	--	--	1,268	5,291	9,884
1,000,000 " 4,999,999	21	4,857	10,552	20,468	1,834	55,310	114,914	58,435	--	--	6,460	29,965	60,117
5,000,000 and over	14	11,812	25,076	59,879	4,277	153,168	329,701	174,198	--	--	15,032	79,724	182,173
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	2,709	15,816	1,900
Totals	96	18,185	38,839	85,938	6,707	223,052	474,489	247,429	10	39	26,206	134,151	259,667

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000							'000		'000	
1964													
Under 5 employed	15	22	44	72	7	233	471	235	4	14	35	127	260
5- 14 employed	10	50	108	189	14	377	1,021	640	2	8	71	325	735
15- 49 "	23	504	1,050	1,799	223	5,668	11,014	5,254	1	5	676	2,951	5,707
50- 99 "	8	424	893	1,577	155	4,603	9,202	4,503	--	--	532	2,161	4,742
100-199 "	12	1,402	2,979	5,761	640	16,417	35,929	19,276	--	--	1,737	7,695	19,324
200-499 "	10	2,363	5,142	9,758	951	26,069	55,282	28,346	--	--	3,118	14,310	28,350
500 employed and over	17	12,810	27,959	60,198	4,325	155,588	313,705	160,150	--	--	16,362	80,699	168,104
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	2,441	14,262	1,112
Totals	95	17,575	38,175	79,354	6,315	208,955	426,624	218,403	7	27	24,972	122,530	228,333
1965													
Under 5 employed	14	19	35	64	10	220	463	242	9	33	27	98	251
5- 14 employed	13	68	146	263	21	599	1,377	761	1	6	98	439	858
15- 49 "	20	410	841	1,590	222	6,443	10,992	4,422	--	--	576	2,697	4,656
50- 99 "	11	648	1,382	2,299	187	6,313	14,516	8,042	--	--	803	3,267	8,193
100-199 "	8	810	1,733	3,366	397	9,238	18,795	9,098	--	--	1,104	5,127	9,310
200-499 "	14	3,316	7,320	14,956	1,372	42,776	89,498	45,840	--	--	4,423	21,800	46,182
500 employed and over	16	12,914	27,382	63,399	4,499	157,464	338,848	179,024	--	--	16,466	84,908	188,316
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	2,709	15,816	1,900
Totals	96	18,185	38,839	85,938	6,707	223,052	474,489	247,429	10	39	26,206	134,151	259,667

TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965

Type of organization	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1964													
Individual ownerships	7	41	78	94	5	133	304	168	7	27	43	102	176
Partnerships													
Incorporated companies	88	17,534	38,097	79,260	6,310	208,822	426,319	218,235	...	...	22,488	108,166	227,045
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	2,441	14,262	1,112
Totals	95	17,575	38,175	79,354	6,315	208,955	426,624	218,403	7	27	24,972	122,530	228,333
1965													
Individual ownerships	8	13	23	37	5	116	256	136	10	39	13	37	146
Partnerships													
Incorporated companies	88	18,172	38,817	85,901	6,702	222,936	474,233	247,292	...	...	23,484	118,298	257,621
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	2,709	15,816	1,900
Totals	96	18,185	38,839	85,938	6,707	223,052	474,489	247,429	10	39	26,206	134,151	259,667

TABLE 7. Calculation of Output, Input and Value Added, 1964 and 1965

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1964	1965	1964	1965	1964	1965
\$'000						
Output						
1. Shipments and other revenue	426,624	474,489	49,741	64,444	476,365	538,933
Inventories—Goods of own manufacture:						
Add closing—Goods in process	11,343	12,083	...	...	11,343	12,083
Finished goods	55,896	57,289	...	...	55,896	57,289
Deduct opening—Goods in process	10,042	11,463	...	...	10,042	11,463
Finished goods	50,149	55,211	...	...	50,149	55,211
2. Net inventory change	7,048	2,698	...	...	7,048	2,698
3. Gross output (1 + 2)	433,672	477,187	49,741	64,444	483,413	541,631
Input						
4. Purchases of goods not of own manufacture .....	...	...	39,353	38,907	39,353	38,907
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	7,301	9,867	7,301	9,867
Deduct closing .....	...	...	9,652	11,455	9,652	11,455
5. Cost of goods sold (not of own manufacture) .....	...	...	37,002	37,319	37,002	37,319
6. Materials, supplies, etc.	208,955	223,052	2,809	14,887	211,764	237,939
7. Fuel and electricity	6,315	6,707	...	...	6,315	6,707
8. Gross input (5 + 6 + 7)	215,270	229,759	39,811	52,206	255,081	281,965
Value added (3 - 8)	218,403	247,429	9,930	12,238	228,333	259,667

TABLE 8. Employment and Payroll, 1964 and 1965

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Adminis- trative and office	Sales and distribi- tion	Total
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female						Manufacturing	Other
	number										\$'000				
1964															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	...	...	...	...	...	...	63	7	63	7	...	...	...	348	348
Quebec	x	x	x	-	x	x	x	x	x	x	x	x	x	x	x
Ontario	9,847	1,971	100	11	2,502	903	958	165	13,407	3,050	57,947	546	20,494	6,980	85,966
Manitoba	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Saskatchewan .....	...	...	...	...	...	...	61	9	61	9	...	...	...	386	386
Alberta	x	x	x	-	x	x	x	x	x	x	x	x	x	x	x
British Columbia	64	7	-	-	17	10	149	28	230	45	326	-	181	956	1,463
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	13,890	3,685	125	11	3,549	1,322	2,062	328	19,626	5,346	79,354	598	28,631	13,946	122,530
1965															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	...	...	...	...	...	...	100	10	100	10	...	...	...	529	529
Quebec	3,650	1,647	11	-	1,035	430	532	60	5,228	2,137	19,636	42	7,984	3,673	31,335
Ontario	10,140	2,332	87	17	2,689	969	1,194	229	14,110	3,547	64,110	557	22,615	9,296	96,579
Manitoba	x	-	-	-	-	-	x	x	x	x	x	-	-	x	x
Saskatchewan .....	...	...	...	...	...	...	87	11	87	11	...	...	...	538	538
Alberta	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
British Columbia	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	14,194	3,991	98	17	3,814	1,419	2,283	390	20,389	5,817	85,938	599	31,273	18,341	134,151

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1964 and 1965

Month	1964		1965	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	13,157	3,497	13,575	3,564
February	13,277	3,462	13,590	3,630
March	13,243	3,530	13,520	3,892
April	13,224	3,473	13,597	3,702
May	13,392	3,573	13,758	3,845
June	13,650	3,621	13,937	3,906
July	13,489	3,394	13,665	3,802
August	13,795	3,618	13,849	3,990
September	13,813	3,778	13,959	4,083
October	13,928	3,684	14,334	4,163
November	13,798	3,519	14,443	4,130
December	13,738	3,484	14,342	3,961
Averages	13,543	3,555	13,884	3,873
Establishments reporting annual averages (small establishments only)	347	130	310	118
Average for all establishments	13,890	3,685	14,194	3,991

TABLE 10. Inventories, 1965

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
	book value \$'000					
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	5,592	1,983	23,698	31,274	853	32,127
Ontario	19,978	9,100	48,286	77,363	5,422	82,785
Manitoba	x	—	x	x	—	x
Saskatchewan	—	—	—	—	—	—
Alberta	x	x	x	x	—	x
British Columbia	x	x	x	x	—	x
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	26,314	11,463	72,075	109,852	6,275	116,126
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	6,424	2,175	20,665	29,265	1,011	30,276
Ontario	20,111	9,524	51,177	80,812	6,243	87,055
Manitoba	x	—	x	x	—	x
Saskatchewan	—	—	—	—	—	—
Alberta	x	x	x	x	—	x
British Columbia	x	x	x	x	—	x
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	27,501	12,083	71,924	111,508	7,254	118,762

TABLE 11. Purchased Fuel and Electricity Used, 1964 and 1965

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	1,485	23	1,324
(b) Imported	"	66,356	731	50,915
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	—	—	—
Lignite coal	"	—	—	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	326,426	124	324,069
Fuel oil including kerosene or coal oil	"	19,406,819	1,505	22,936,808
Wood	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	50,756	12	52,645
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	659,406	365	792,076
Other fuel .....	...	—	—	—
Electricity purchased	kwh.	388,933,099	3,174	425,038,080
Steam purchased .....	...	—	203	—
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	180	...	183
3. All establishments:				
Total fuel and electricity used .....	...	6,315	...	6,707

TABLE 12. Materials and Supplies - Manufacturing Activity, 1964 and 1965

Description	1964		1965	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used:				
Rubber, natural (including Latex) ¹ lb.	93,622,710	23,694	98,045,695	23,922
Rubber, reclaimed ¹ "	40,365,872	4,817	38,982,243	4,421
Rubber, synthetic (including Latex): ¹				
Butadiene-Styrene type (buna-S)..... "	201,395,103	42,686	175,229,334	34,274
Other types (incl. butyl, buna-N, Neoprene, etc.)..... "			40,901,930	10,941
Rubber, scrap..... "	23,516,096	897	29,168,100	801
Crude allied gums..... "	37,938	73	76,313	145
Latex compounds..... "	1,937,015	532	2,091,512	572
Tread rubber (camelback)..... "	3,012,402	1,283	20,866	6
Rubber, other (including master batches, tubing, etc.)..... "	...	741	...	1,803
Plastics, synthetic resins:				
Polyethylene types..... lb.	25,282,546	5,284	4,227,236	997
Vinyl chloride..... "			17,501,236	3,002
Cellulose acetate..... "			3,724	2
Other resins..... "			12,475,502	3,274
Plastic, film:				
Cellulose film..... "	2,798,640	1,545	1,734,780	1,110
Other types..... "			764,650	439
Tire fabrics, cotton..... "	1,386,864	1,193	1,361,147	1,189
" rayon..... "	14,682,524	11,280	14,766,507	11,107
Tire fabrics, all other (nylon, etc.)..... "	22,989,613	27,780	34,190,296	29,050
Hose fabrics..... "	617,183	504	597,771	491
Belting duck..... "	3,536,745	2,765	2,588,620	2,243
Belting fabrics, other..... "	730,589	685	704,849	652
Holland cloth..... "	89,175	105	113,349	105
Shoe fabrics, other than leather..... "	511,420	559	507,296	570
Miscellaneous cottons..... yd.	13,450,196	4,140	13,107,619	4,803
Other fabrics, n.e.s..... "	6,384,981	4,011	6,997,467	4,028
Yarns, cotton..... lb.	392,534	363	413,139	393
" rayon, nylon, etc..... "	1,917,945	1,738	2,168,764	2,069
Felt..... "	30,000	44	—	—
Wool..... yd.	272,040	68	—	—
Wool, shearling..... lb.	180,000	144	—	—
Leather..... "	411,530	567	524,559	740
Leather tops for boots..... pr.	11,500	36	—	—
Carbon black..... lb.	104,559,281	8,762	116,213,590	10,159
China clay..... "	20,975,808	376	18,550,803	342
Other clays and earths..... "	11,979,617	224	12,887,518	267
Mica, ground..... "	636,185	65	596,896	60
Solvents..... gal.	4,849,238	1,601	5,145,318	1,719
Fatty acids..... lb.	9,534,574	547	9,309,729	658
Sulphur..... "	6,644,455	495	6,914,498	552
Whiting..... "	34,496,246	466	40,501,812	551
Litharge..... "	2,291,257	417	3,369,379	542
Zinc oxide..... "	12,569,578	1,676	12,326,278	1,826
Talc and soapstone..... "	2,750,580	69	2,539,547	66
Barytes..... "	604,563	26	387,552	17
Titanium dioxide..... "	2,951,752	735	3,382,439	866
Accelerators..... "	4,335,272	2,669	4,428,406	2,535
Colouring agents, n.e.s..... "	1,352,461	570	1,438,801	703
Dispersing agents, n.e.s..... "	231,568	71	268,071	96
Plasticizers, n.e.s..... "	25,225,924	3,557	31,499,651	4,207
Anti-oxidants, n.e.s..... "	4,963,277	2,811	5,303,124	2,965
Fillers, n.e.s..... "	26,560,272	1,118	27,018,582	1,062
Other chemicals, n.e.s..... "	...	5,956	...	5,752
Oils..... lb.	886,288	114	...	—
Wire..... "	13,522,374	3,189	14,678,266	3,308
Hose couplings and fittings..... }	...	1,793	...	462
Other hardware fitting (edecks, valves, etc.)..... }	...	1,590	...	1,475
Shoe findings, buckles, eyelets, etc..... }	...	540	...	1,781
Lacquers, etc. (dispersions of resins)..... gal.	447,401	540	205,865	505
Rubber cement..... "	171,674	312	149,104	287
Paints, varnishes, etc..... "	150,111	119	194,115	180
Thread for sewing..... "	...	6	...	—
Hose jackets..... "	...	109	...	131
All other materials and components used ².....	...	15,629	...	18,368
2. Containers and other packaging materials and supplies used.....	...	5,223	...	5,793
3. Operating, maintenance and repair supplies used (excluding fuel).....	...	9,350	...	11,391
4. Amounts paid out to others for work done on materials owned by establishments.....	...	981	...	1,278
Totals.....	...	208,955	...	223,052

¹ For details of "Rubber used" see Table 15 and 16.

² No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$3,522,778 in 1964 and \$3,947,010 in 1965.

TABLE 13. Shipments of Goods of Own Manufacture

Description	Value	
	1964	1965
	\$'000	
Footwear	39,464	41,528
Tires.....	187,982	209,627
Tubes.....	8,583	9,419
Other.....	191,292	215,082
Total shipments	427,321	475,656
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deduced from individual commodity items described above	(698)	(1,167)
Total shipment (adjusted)	426,624	474,489

TABLE 13 A. Shipment of Footwear, 1964 and 1965

Kind	1964		1965	
	Quantity	Value	Quantity	Value
	pairs	\$'000	pairs	\$'000
Boots, all rubber:				
(a) Knee, thigh and hip	1,260,801	4,029	1,210,948	4,100
(b) Lumbermen's, etc.	236,775	1,177	244,929	1,186
Boots, rubber bottoms and leather tops:				
Lumbermen's, etc.	129,116	642	123,022	760
Bottoms for leather tops	154,005	270	197,036	451
Overshoes and goloshes:				
(a) Cloth uppers	854,883	3,761	763,609	3,525
(b) All rubber, lined and unlined	3,510,449	8,723	3,130,652	7,944
Light and heavy rubbers	2,857,453	3,605	2,693,736	3,375
Footwear, with canvas or other fabric tops:				
(a) Utility.....	4,056,794	6,709	4,316,785	7,318
(b) Casual	1,005,603	2,083	1,039,721	2,228
Bathing shoes	1	1	1	1
Plastic waterproof footwear, all types	2,056,252	3,965	2,358,771	5,310
Leather footwear.....	1	1	1	1
Other footwear.....	...	4,500	...	5,336
Total footwear.....	18,300,474	39,464¹	18,349,735	41,528²

¹ Included in "Other footwear".

² See Table 13.

TABLE 13 B. Shipments of Tires, by Type, 1965

Type	Premium and first line	Second line	Third and fourth lines	Total	Value
	number				\$'000
Pneumatic tires (including tubeless):					
Passenger car all ply ratings	9,288,977	1,955,287	910,705	12,154,969	120,977
Truck and bus (including earth-mover, excavator, logger and grader):					
(a) Sizes smaller than 12-00-22:					
Highway	1,134,928	115,083	18,664	1,268,675	46,490
Off the road	1	1	1	146,187	12,846
(b) Sizes 12-00-22 and larger:					
Highway	49,743	—	—	49,743	14,971
Off the road	—	—	—	—	—
Tractor and implement	380,236	70,959	—	451,195	11,441
Boat trailer	—	—	—	—	—
Mobile home (trailer)	150,900	—	—	150,900	1,024
Industrial, pneumatic and semi-pneumatic (including wheelbarrow)	1	1	1	736,213	1,442
Aeroplane, motorcycle and side car, bicycle, and pneumatic tires, n.e.s.	1	1	1	—	—
Solid and cushion tires:					
All types: (including lawn mower, wheelbarrow, pressed-on and moulded-on)	144,792	—	—	144,792	435
Total tires	11,616,923	2,544,385	941,366	15,102,674	209,627²

¹ Data confidential.

² See Table 13.

Table 13 C. Shipments of Tubes, by Type, 1965

Type	First line	Second line	Total	Value
		number		\$'000
Passenger car.....	1,874,226	633,475	2,507,701	3,433
Truck and bus:				
(a) Sizes smaller than 12.00-22	1,108,365	—	1,108,365	3,900
(b) Sizes 12.00-22 and larger	42,205	—	42,205	592
Tractor and implement.....	310,964	—	310,964	1,036
Boat trailer	1	—	1	1
Aeroplane, motorcycle and side car, bicycle, and tire tubes, n.e.s.	661,677	55,600	725,831	459
Total tubes	3,997,437	689,075	4,695,066	9,419²

¹ Included with "Aeroplane, motorcycle and side car, etc."

² See Table 13.

TABLE 13 D. Shipments of Other Products, 1964 and 1965

Principal products	1964		1965	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
Clothing (rubber, rubberized, etc.)..... doz.	22,733	1,780	28,515	2,344
Fabrics (rubberized, plastic-coated, etc.)..... sq. yd.	4,073,427	5,123	5,255,538	6,921
Artificial and imitation leather.....	1	1	1	1
Full and half soles:				
Rubber	1,859,789	687	1	1
Composition	3,072,943	1,426	1	1
Rubber and composition heels	10,329,372	1,485	8,726,264	1,485
Soles and toplifting sheets:				
Rubber	6,710,420	2,585	13,869,313	5,628
Composition	8,396,831	3,696		
Belts and belting:				
Conveyor	8,914,368	6,753	9,054,080	7,619
Transmission, flat type.....	1,493,934		1,681,584	
Transmission, V-type, automotive fan belts:				
Original equipment	1,581,131	648	1,803,978	737
Replacement	1,689,339	1,576	1,276,501	983
Transmission, V-type:				
Fractional h.p. belts.....	2,112,793	1,081	1,889,513	1,109
Other belts:				
Multi-V	652,033	1,434	827,142	2,228
Agricultural	459,490	1,435	450,904	1,416
Rubber belts and belting, other	1,467,300	1,583	1,124,444	1,355
Hose and tubing:				
Garden hose, rubber.....	9,775,125	852	11,820,598	1,173
Automotive hose.....	7,906,725	1,521	10,291,056	1,784
Heavy industrial hose.....	11,052,675	8,105	27,051,763	13,170
Light industrial hose and tubing	17,146,628	3,689		
Fire hose fabric jacket, rubber lined.....	968,968	657	1,059,045	769
Rubber tubing, all other.....	4,358,530	557	4,741,389	544
Plastic garden hose, other hose and flexible tubing.....	..	553	..	599
Plastic pipes, film and sheet and other extruded plastic products.....	..	2,602	..	2,506
Rubber packing, all kinds.....	4,398,322	2,522	5,457,426	3,089
Rubber supplies, such as washers, gaskets, etc.....	...	4,753	...	4,300
Rubber thread, covered and not covered.....	1	1	1	1
Rubber and friction tape	3,219,685	2,657	3,419,288	2,840
Pressure sensitive tape, including cellulose.....	28,208,513	14,990	32,022,537	16,620
Printers rolls and other rubber rolls	52,785	471	77,562	614
All other rubber rolls and coverings (including wringer rolls).....	..	3,657	..	4,296
Rubber coverings and linings, for tanks, pipes, etc.,	1,636,118 ¹	2,380 ¹	2,111,751	3,301
Rubber mats for automobiles	1,709,206	3,981	1,530,726	3,465
Rubber link and strip door mats.....	239,033	167	168,732	85
Roll rubber matting	2,814,355	1,274	1	1
Rubber mats n.e.s. (including stair treads and risers).....	2,081,230	452	1,480,459	358
Rubber sheet flooring and wainscoting	1	1	1	1
Rubber tiles	1	1	1	1
Rubber tires and tiring, for baby carriages, etc.....	1,380,287	311	1,208,290	311

¹ Included with "All other products".

TABLE 13 D. Shipments of Other Products, 1964 and 1965 - Concluded

Principal products		1964		1965	
		Quantity	Value	Quantity	Value
			\$'000		\$'000
Repair gums and fabrics	lb.	974, 282	663	951, 017	621
Other unvulcanized gums	"	1, 059, 897	439	973, 289	408
Tread rubber (Camelback)	"	20, 249, 703	7, 008	21, 330, 721	7, 143
Cured rubber, in slabs, including chute and launder lining	"	983, 784	862	823, 396	945
Rubber master batches or mixes, uncured	"	2, 587, 530	602	2, 909, 485	764
Hard rubber, in sheets, strips or rods	"	131, 957	145	1	1
Rubber adhesives:					
Neoprene	gal.	33, 541	80	1, 303, 336	4, 171
Other (including natural rubber)	"	1, 145, 216	3, 821		
Tire and tube repair materials (patches, etc.) .....		...	1, 169	...	1, 145
Tube repair kits	No.	747, 170	156	935, 525	196
Rubber blankets, printers' etc.	lb.	455, 373	473	422, 569	423
Battery containers		1	1	1	1
Battery covers, vents, etc.		1	1	1	1
Channel rubber		1	1	1	1
Rubber automotive and aeroplane parts, n.e.s.	lb.	6, 525, 170 ^r	7, 476 ^r	10, 073, 692	10, 219
Druggists' and medical sundries (including rubber sheeting and rubberized sheets) .....		..	838	..	1, 012
Gloves, rubber	doz. pr.	203, 085	1, 272	214, 858	1, 287
Gloves, rubberized and plastic coated fabric	"	20, 866	167	12, 212	121
Rubber jar rings		1	1	1	1
Weather stripping, all kinds:					
Rubber	lb.	7, 933, 376	4, 090	11, 899, 844	7, 783
Plastic	"	1, 550, 879 ^r	1, 405 ^r		
Sanitary goods, n.e.s. ....		...	134	...	1
Aprons, rubber, rubberized and plastic		1	1	1	1
Bathing caps, shower caps, etc.		1	1	1	1
Rubber play balls		1	1	1	1
Rubber toys (including rubber and plastic dolls)		1	1	1	1
Hockey pucks		1	1	1	1
Ballons, toy	gross	467, 072	750	503, 701	750
Extruded rubber goods, n.e.s. ....		..	954	..	1, 723
Moulded rubber goods, n.e.s. ....		..	6, 881	..	10, 639
Moulded plastics, n.e.s. ....		..	2, 108	..	2, 345
Other plastic products, n.e.s. (bags, covers, tapes, tiles, toys, folding doors, etc.)		1	1	1	1
Sponge and hard rubber mats, pads, cushions, etc.	lb.	96, 318	186	130, 208	158
Foamed latex	"	1	1	1	1
Rug underlay or cushioning	sq. yd.	3, 227, 788	3, 723	1	1
Chemically blown rubber, sponge rubber and manufacturers there of, n.e.s.	lb.	1	1	1	1
Latex compounds (natural and synthetic)		9, 531, 936	3, 852	11, 048, 684	4, 224
Dies and moulds	No.	1, 021	128	1	1
All other products .....		...	50, 702 ^r	...	61, 086
Amount received in payment for work done on materials and products owned by others		...	2, 173	...	4, 474
Total value of other products .....		...	191, 292²	...	215, 082²

¹ Included with "All other products".

² See Table 13.

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1964 and 1965

(Included shipments from other industries which manufacture, as a secondary activity, the commodities listed)

Description		1964		1965	
		Quantity	Value	Quantity	Value
			\$'000		\$'000
Pressure-sensitive tapes:					
Plastic tape, all types	sq. yd.	7, 928	6, 504	9, 002	7, 222
Cloth tape, all types	"	3, 629	2, 916	5, 215	3, 367
Paper tape, all types	"	18, 563	6, 520	21, 182	7, 347
Rubber tiles	sq. ft.	5, 696, 790	1, 426	1, 937, 157	730
Foamed latex and chemically blown rubber	lb.	6, 269, 075	4, 620	6, 762, 228	4, 985
Rug underlay and cushioning (felt and rubber)	sq. yd.	8, 940, 637 ^r	6, 431	9, 696, 504	6, 953

TABLE 15. Consumption of Synthetic Rubber, by Types, 1965

	S-type		N-type	Stereoregular	Butyl	Neoprene	Other	Total
	Solid	Latex						
	*000 lb.							
1964	147,408	8,711	1,588	20,685	13,457	10,589	1,133	203,571
1965	153,993	9,780	1,705	23,347	14,452	10,696	1,384	215,357

TABLE 16. Consumption of Rubber by End Products, showing also Percentage to all Rubber Consumed, 1964 and 1965

Types	Quantity		Consumed in the manufacture of				
	Total	Percentage of all rubber	Tires and tubes ¹	Wire and cable	Footwear ²	Foamed rubber	Other products
	'000 lb.	%	'000 lb.				
1964							
Synthetic	203,571	60.6	143,579	8,053	5,978	4,438	41,523
Natural	90,063	26.8	64,070	495	6,805	1,169	17,524
Reclaimed	42,343	12.6	28,679	46	710	—	12,908
Totals	335,977	100.0	236,328	8,594	13,493	5,607	71,955
1965							
Synthetic	215,357	61.2	152,678	8,521	5,683	4,749	43,726
Natural	95,857	27.2	68,553	550	7,037	907	18,810
Reclaimed	40,767	11.6	27,553	55	659	—	12,501
Totals	351,981	100.0	248,783	9,126	13,379	5,656	75,037

¹ Includes "Tire repair materials".

² Includes "Heels, soles, etc.".

TABLE 17. Principal Statistics classified by Industry Sub-group, 1962-65

Year and sub-group	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
Footwear manufacturers:													
1963	6	3,936	8,312	11,744	381	15,298	38,844	22,423	—	—	4,674	14,921	23,005
1964	6	4,098	8,614	12,970	401	16,865	42,540	26,307	—	—	4,938	16,988	27,181
1965	7	4,035	8,022	12,770	412	15,368	43,228	27,061	—	—	4,876	16,902	28,869
Tire and tube manufacturers:													
1963	10	6,566	14,051	33,843	3,057	112,447	207,111	94,247	—	—	8,322	43,786	95,521
1964	11	6,665	14,653	36,965	3,193	122,393	225,728	104,395	—	—	8,520	48,491	106,953
1965	11	6,915	15,004	40,839	3,343	129,503	249,408	118,489	—	—	8,890	53,723	121,034
Other rubber industries:													
1963	77	6,377	13,824	26,260	2,482	61,468	140,774	77,943	10	32	8,900	41,061	86,610
1964	78	6,812	14,908	29,419	2,721	69,697	158,356	87,701	7	27	9,625	46,102	93,088
1965	78	7,235	15,813	32,329	2,951	78,181	181,852	101,879	10	39	10,285	51,122	107,863

List of Establishments classified to this Industry, 1965

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Index to Industry: A Footwear; B Tire; C Other Products

Name	Location	Industry
Quebec:		
Acton Rubber Ltd., The	Acton Vale	A
American Biltrite Rubber Co. (Canada) Ltd.	255 Jenckes Lane, Sherbrooke	C
American Winger Company (Division of Turnbull Elevator Ltd.)	155 Main St., Farnham	C
Arrowtape Industries Inc.	1955 Notre-Dame St., Lachine	C
Best Rubber Carpets Reg'd.	Aston Junction	C
Bloomfield, M & Sons Ltd.	7230 Alexandra St., Montreal	C
Canadian Latex Ltd. (Div. of Dominion Rubber Co. Ltd.)	1665 Notre-Dame St. E., Montreal	C
Canadian Philtex Products Ltd.	824, boul. Ste-Croix, St-Laurent, Montreal 9	C
Canadian Technical Tape Limited	455 Côte Vertu Road, St-Laurent, Montreal 9	C
Cat's Paw Hottite Rubber Co. of Canada Ltd.	Lindsay St., Drummondville	C
Connor, I.H., & Son Ltd.	145-19th Ave. Lachine	A
Dominion Rubber Co. Ltd.	St. Jérôme	A
Dominion Rubber Co. Ltd. (Industrial Products Division)	1806 Notre-Dame St. E., Montreal	C
Dominion Rubber Co. Ltd. (Latex and Reclaim Division)	1930 Notre-Dame St. E., Montreal	C
Dura Undercushions Ltd.	8525 Delmeade Rd., Montreal 9	C
Franco Plastic Extrusions	10521 Heneault St., Montreal Nord	C
General Latex and Chemicals (Canada) Ltd.	20 Ibsen Place, Candiac	C
B.F. Goodrich Canada Ltd. (Cellular Products Division)	Depot St., Waterville	C
Goodyear Tire & Rubber Co. of Canada Ltd.	1195 Taitton St., Quebec	C
Goodyear Tire & Rubber Co. of Canada Ltd.	160 Blvd. Mgr. Langlois, Valleyfield	B
Jerpaco Ltd.	7680 Notre Dame Ouest, Trois-Rivières	C
Jiffy Products Inc.	360 Victoria Ave., Westmount, Montreal 6	C
Laval Tanguay Inc.	1042 Wellington St. S., Sherbrooke	C
Lion Rubber & Plastics Ltd.	0140 Clement St., Ville Lasalle	C
Mailman Corp. Limited	455-19th Ave., Lachine	A
Miner Rubber Company Limited	191 Denison Ave., Granby	A
Rockland Accessories Limited	Kingsbury	C
Rubber Guild, The	2444 Centre St., Montreal	C
Stedfast Rubber Co. (Canada) Ltd.	Sydeman Ave., Granby	C
Tillotson Rubber Co. Ltd.	260, rue St Michel, St Jean	C
Wilkinson Linatex Co. Ltd.	1975 Bois Franc Road, Ville St-Laurent	C
Woodward, F.E. & Sons Ltd.	290-17th Ave., Lachine	C
Ontario:		
Armet Industries Limited (Silicone & Paint Division)	Woodlawn Rd., Guelph	C
Austenal Canada Ltd.	364 Waterloo Ave., Guelph	C
Bata Shoe Co. of Canada Ltd.	Batawa	A
Bierco Limited	120 Townline Rd., Tillsonburg	C
Biltrite Rubber Co.	121 De Grassi St., Toronto 8	C
Bingham's Sam'l Son (Canada) Corp. Ltd.	52 Advance Rd., Toronto	C
Bowes "Seal Fast" Co. Ltd.	765 Woodward Ave., Hamilton	C
Bracebridge Latex Products Ltd.	Highway 532, Bracebridge	B
Canadian Vaportred Ltd.	40 John St., Thorold	C
Clarke Roller & Rubber Ltd.	11 Newbridge St., Toronto 18	C
Dayton Rubber Co. (Canada) Ltd.	46 Norelco Drive Weston	C
Dominion Rubber Co. Ltd. (General Products Division)	51 Breithaupt St., Kitchener	C
Dominion Rubber Co. Ltd.	149 Strange St., Kitchener	B
Dominion Tape of Canada Ltd.	104 William St., Cornwall	C
Dowswell Lees & Company Limited	65 Hatt St., Dundas	C
Dunlop Canada Limited	Dunlop Drive, Whitby	B
Dunlop Canada Limited	870 Queen St. E., Toronto	C
Eckel Industries of Canada Ltd.	Allison Ave., Morrisburg	C
Federal-Mogul-Bower (Canada) Ltd. (Mechanical Rubber Div.)	Arthur St., Mitchell	C
Federal-Mogul-Bower (Canada) Ltd. (Federal Rubber Div.)	342 Erie St. & 1030 Erie St., Stratford	C
Firestone Tire & Rubber Co. of Canada Ltd.	1579 Burlington St. E., Hamilton	B
Gaco Products Ltd.	177 Clarence St., Brantford	C
Gates Rubber of Canada Limited	50 Iroquois St., Brantford	C
General Latex & Chemicals (Canada) Ltd.	68 Eastern Ave. E., Brampton	C
Goodrich, B.F. Canada Limited	521 Kings St. W., Kitchener	B
Goodyear Tire & Rubber Co. of Canada Ltd.	Raynes St., Bowmanville	C
Goodyear Tire & Rubber Co. of Canada Ltd.	3050 Lakeshore Blvd., New Toronto	B
Gorlock of Canada Ltd.	66 Jutland Rd., Toronto	C
Goshen Rubber of Canada Ltd.	3675 Weston Rd., Weston	C
Griffith, G.L. & Sons Ltd.	341 Erie Street, Stratford	C
Hamilton Kent of Canada Ltd.	3094 Mavis Rd., Cooksville	C
Kaufman Footwear Industry Ltd.	410 King St. W., Kitchener	A
L. O. B. Company	Sturgeon Falls	C
Latex Compounding Company	370 Bering Ave., Toronto 18	C
Mansfield-Denman General Limited	220 John St., Barrie	B
Mansfield-Denman General Ltd.	John & Bernard Streets, Welland	C
Minnesota Mining & Manufacturing of Canada Limited	Oxford St. Box 2757, London	C
National Coupling (Canada) Ltd.	4 Stewart St., Kitchener	C
National Rubber Co. Ltd.	394 Symington Ave., Toronto 9	C
Novelty Rubber Company	150 Canada Street, Hamilton	C
Precision Rubber Products (Canada) Ltd.	255 Hughes Rd., Drillia	C
Press-Seal Corp. of Canada Ltd.	245 Strassburg Rd., Kitchener	C
Rubbermaid (Canada) Ltd.	2531 Stanfield Rd., Cooksville	C
Seiberling Rubber Co. of Canada Ltd.	99 Paton Road, Toronto	B
Sellotape Canada Ltd.	10 Esandar Drive, Toronto 17	C
Silcofab Limited	322 York Rd., Guelph	C
Snowden Roller Co. Ltd.	365 French St., Oshawa	C
Snyder, M.L. & Son Ltd.	49 Pine St., Woodbridge	C
Viceroy Manufacturing Company Limited	1655 Dupont St., Toronto 9	C
Western Rubber Co. of Canada Limited	Alton	C

List of Establishments classified to this Industry, 1965 - Concluded

Name	Location	Industry
Manitoba:		
Shur-Foot Mat Company	221 Flora Ave., Winnipeg 4	C
Stearns Automotive Products Ltd.	92 Gomez St., Wihnipeg 2	C
Alberta:		
Continental Rubber Co. of Canada Ltd.	9725-62nd Ave., Edmonton	C
Fubrix Rubber Mat Co. Ltd.	10027-92nd St., Edmonton	C
Firestone Tire & Rubber Co. of Canada Ltd.	2 Highway Blackfoot Trail, Calgary	B
Goodyear Tire & Rubber Co. of Canada Ltd.	1272-12th St. N.W., Medicine Hat	B
Tap-Master Corp. Ltd.	725-8th Ave. S.W., Calgary	C
British Columbia:		
A.C. Rubber Manufacturing Co. Ltd.	1430 Burrard St., Vancouver 1	C
Griffith Rubber Mills Ltd.	12320-88th Ave., North Surrey	C
Huntington Rubber Mills of Canada Ltd.	Dewdney Trunk Rd., Port Coquitlam	C
Pacific Marine Bumper	308 W. Esplanade St., North Vancouver	C
Reliable Rubber Mat Mfg. Co.	3340 Findlay St., Vancouver 12	C
Seaway Fenders Ltd.	261 No. 7 Road, R.R. No. 2, Richmond	C
Western Mat Company (1963) Ltd.	1603 Franklin St., Vancouver 6	C

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 55 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

The reporting unit for the Census is designated as the **establishment** (see definition of "Establishment" in following section) and a return is requested from every establishment classified to a manufacturing industry. Although respondents are required to submit reports covering the calendar year, financial year reports other than the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. When an establishment is operated for only part of a year a report is required covering the period of operation.

There are four different questionnaires used in the Census of Manufactures; (a) short form (b) long form (c) head office questionnaire and (d) commodity questionnaire. The short and long forms are used to obtain principal statistics and commodities shipped from establishments classified to manufacturing industries and differ only in the amount of detail requested. The short form is a single-sheet questionnaire sent to small manufacturers generally reporting shipments of less than \$100,000; this cut-off, however, varies somewhat between industries. The head office questionnaire is generally used for company head offices and/or auxiliary units separately located from the manufacturing establishment(s), (see following notes on Head offices and auxiliary units). The Commodity questionnaire is used to survey certain establishments which are coded (on the basis of their principal activity) to industries other than manufacturing in the Standard Industrial Classification system, but which undertake some manufacturing as a subsidiary activity. This single-sheet questionnaire is designed to collect information on the quantity and value of goods of own manufacture shipped by such establishments in order to achieve full coverage of domestically manufactured commodities (see the following note under Shipments).

The results of the Census are presented in some 135 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures; (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the reports reflect the complete implementation of these changes and enable comparisons to be made back to and including 1961. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

Establishment

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. The majority of such establishments are firms but many firms have more than one establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements embodied in the following definition of the "establishment":

"The smallest unit which is a separate operating entity capable of reporting the following principal statistics:

- Materials and supplies used
- Goods purchased for resale as such
- Fuel and power consumed
- Number of employees and salaries and wages
- Man-hours worked and paid
- Inventories
- Shipments or sales."

Each establishment is required to report on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour

force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in the activities of the manufacturing industries to which they have been classified. These units do not necessarily represent the total number engaged in the production of a commodity mainly produced in a certain industry. Some commodities are produced as secondary products in other manufacturing and non-manufacturing industries. It should be noted that head offices and auxiliary units which are surveyed separately are not included in the establishment count, (see following notes on head offices and auxiliary units).

Head Offices and Auxiliary Units

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Manufactures.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishments within the Census of Manufactures as they do not normally generate operational revenues, but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics (3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:

(a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry (3 or 4 digit) as the establishment;

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the firm, when all establishments are in the same industry (3 or 4 digit). When establishments of

such firms are coded (1) to different industries within a major group, (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry (3 or 4 digit) level in all cases will be left free of these company-wide data.

Employees

(a) Production and related workers — Manufacturing activities

In addition to those engaged in production and assembling activities, they include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen) engaged in similar work to that of the employees they supervise. For those establishments reporting on the "long" form, production and related workers engaged in manufacturing activity are reported as those receiving pay during the last pay period of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. In the case of those establishments reporting on the "short" form, respondents are requested to report average annual figures. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.). Data on man-hours are not collected from establishments reporting on the short form. Man-hours for these establishments are estimated on the basis of ratios derived from the 1958 census. During this census all establishments reported on the long form. In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in average hourly earnings and does not represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.

(b) Production and related workers — Non-manufacturing activities

Such employees include those on manufacturing establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments, some outside piece-workers employed in certain industries, logging employees who are reported as part of a sawmilling establishment and any other production workers who are not engaged in manufacturing-type operations.

(c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers, etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the line supervisor or working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical, etc. It should be noted that prior to 1961 this category also included working owners and partners. Also included in this category are employees located at head offices or auxiliary units separately located from the establishment; these are generally included in the figures for the province in which they are located according to the rules outlined under "Head offices and auxiliary units" above.

(d) Sales and distribution workers

This category includes office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truckdrivers and their helpers, etc. It may also include some sales employees who are reported as part of a manufacturing establishment but are not working at the establishment's location. These are generally broken down by province in cases where more than 15 employees are involved in any one province. The figures exclude persons working on a commission basis who are not considered regular employees of the establishment.

(e) Total Employees

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of employees included under categories (b), (c) and (d) are reported in the form of annual averages and represent as closely as possible full time employment; adjustments are made when reported figures indicate the existence of part time or seasonal employment. In all the above categories, figures on employment refer to the calendar year whether or not other establishment statistics can only be reported on a fiscal year other than the calendar year.

Working Owners or Partners

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners are defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

Salaries and Wages

Salaries and wages refer to gross earnings of employees **before** deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages,

bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives, etc.), not to purchases unless the quantities are substantially the same. **Any fuel and electricity produced by establishments for internal consumption are not included in the total cost.** Values represent laid down cost at the establishment including freight, duty, etc. Although fuel and electricity used is considered part of manufacturing activity it should be noted that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

Materials and Supplies

(a) Manufacturing activities

Figures represent quantities and laid down cost values, at the establishment, of materials, supplies and purchased components owned and used during the year in manufacturing activities and related processes. These statistics represent only commodity items or physical goods (cost of services or overhead charges such as advertising, insurance, depreciation, etc. are not included) whether purchased from others or received as transfers (in the form of materials, components or semi-processed goods) from other establishments of the reporting company. Included are maintenance and repair supplies not chargeable to fixed assets accounts and any amounts charged by other establishments for work done on materials owned by the reporting establishment. Cost of repairs or maintenance done by outside contractors and cost of returnable containers are not included.

(b) Non-manufacturing activities

1. Purchases for re-sale as such

Figures represent cost of materials or products purchased from others by the reporting establishment (or received as transfers from other establishments of the reporting company) for re-sale as such in the same condition as purchased. Included are any finished products received on consignment from other countries.

2. Other materials and supplies used

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of

purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

Shipments

(a) General

The figures represent revenue from all production, sales, services and related activities of reporting establishments with shipments valued in Canadian dollars at the point at which the establishment relinquishes control. The unsold portion at year end of consignment shipments in Canada is treated as inventory and not as shipments but all shipments to foreign countries for which the form B13 "Customs Canada Export Entry" has been completed, are treated as shipments.

In those industries where work on principal products extends over a relatively long period, (Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair Industry) the value of production rather than the value of shipments is recorded. There are certain establishments in other industries which also operate on a basis of progress payments. For these establishments, shipments are also adjusted to work put in place on the basis of the net change in progress payments over the year.

(b) Shipments of goods of own manufacture

These figures represent shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishments for work done. Included are revenue from repair and custom work, amounts received in payment for work done on materials owned by other establishments and the cost (book value) of any goods shipped on a rental basis.

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of returned goods, discounts, returns, allowances, sales tax and excise taxes and duties, returnable containers and charges for outward transportation by common or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity

are collected by means of the Commodity questionnaire referred to earlier. Such shipments together with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

These figures represent the net selling value at establishment (net of discounts, returns, allowances, sales taxes and excise duties and taxes and transportation charges by common or contract carriers) of all products or materials (including products transferred from other establishments of the reporting firm) sold as such in the same condition as purchased or received as transfers. For those industries which ship such goods on a rental basis, the value of shipments represents the book value of these goods. All sales of consignment goods from other countries are included.

(d) Other revenue

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs, alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishment's own employees and for which depreciation accounts are maintained. Included also are any revenues from the sale of electricity and from any operations performed by the establishment's own employees, such as revenue from goods produced or purchased for rental (the book value of such goods are included as part of shipments of goods of own manufacture or shipments of goods not of own manufacture), servicing revenues, commissions on sales (when not included in value of sales), revenue for company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishment's own products, sale of used materials (excluding sale of used fixed assets) research and development work, etc. As mentioned previously the figures do not include non-operating revenue such as rent, dividends, interest, etc.

Inventories

(a) Manufacturing activities

Values represent the book values of manufacturing inventory owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payment accounts are maintained, the change in these accounts is treated as a net adjustment to shipments. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Goods shipped abroad and held in inventory are included in shipments. Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the

receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

(b) Non-manufacturing activities

Figures represent the book value of inventory of goods purchased for re-sale as such without further processing, owned by the reporting establishments and held at plants and at any warehouses or selling outlets which are treated as extensions of establishments. Other characteristics are the same as in (a) above.

Value Added

(a) By manufacturing activities

Figures are compiled by deducting the cost of manufacturing materials, supplies, etc. and fuel and electricity consumed from the (value of shipments of goods of own manufacture adjusted for changes in the value of inventories of finished goods and goods in process).

(b) By non-manufacturing activities

The figures are compiled by deducting the cost of goods purchased for re-sale (adjusted for changes in the value of inventories of goods pur-

chased for re-sale) and the cost of non-manufacturing materials and supplies used from the value of shipments of goods not of own manufacture, plus other revenue.

(c) By Total activities

The figures consist of value added by manufacturing activities plus value added by non-manufacturing activities. This total value added figure may, in some cases, be less than value added by manufacturing activities as a result of expenditures associated with non-manufacturing exceeding revenues from such activities or because of a decrease in inventory of goods not of own manufacture exceeding the mark-up on the sale of such goods. "Value added" is sometimes referred to as net output or net production. However, to arrive at the National Accounts concept of net production, or Gross Domestic Product at "Factor cost" it would be necessary to subtract also the cost of advertising, insurance and other business expenses which are not collected as part of the annual Census of Manufactures. "Value added" figures for the primary industries, manufacturing and construction are published in DBS publication Catalogue No. 61-202, "Survey of Production".

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