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RUBBER INDUSTRIES

1963

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RUBBER INDUSTRIES

1963

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 generally presented data on the industrial group basis only. The sole exception to this practice in this report is Table 14 which gives a breakdown of the separate principal statistics for all three industries for 1961,

1962 and 1963; and Table 3, which does not include two-digit head offices in the breakdown by individual industry (see Explanatory Notes).

Tables 7 A to 7 D, 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 7. The purpose of the latter table is to reconcile the individual shipment totals of Tables 7 A to 7 D, inclusive, with the 1963 total shown throughout the rest of this report under the heading "Value of shipments of goods of own manufacture".

Table 6 shows the details of the materials and supplies used in manufacturing by this industrial group, whereas Table 8 presents the shipments by all industries of certain commodities manufactured both in this and other industries. Tables 9 to 13, inclusive, present 1963 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 1963 survey will be found at the end of this report. This list gives, firstly, the particular industry in which the establishment was classified and, secondly, the products produced by it.

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 A. Principal Statistics classified by Province, 1962 and 1963

Year and province	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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	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													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick .....	...	...	...	...	...	...	...	...	...	...	84	391	...
Quebec	32	x	x	x	x	x	x	x	x	x	x	x	x
Ontario	47	10, 459	22, 846	48, 540	4, 102	128, 935	263, 624	131, 936	4	9	14, 812	73, 361	138, 712
Manitoba	1	x	x	x	x	x	x	x	x	x	x	x	x
Saskatchewan .....	...	...	...	...	...	...	...	...	...	...	78	378	...
Alberta	5	x	x	x	x	x	x	x	—	—	x	x	x
British Columbia	5	44	105	197	25	210	668	434	x	x	275	1, 287	444
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
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													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick .....	...	...	...	...	...	...	...	...	...	...	83	346	...
Quebec	31	x	x	x	x	x	x	x	x	x	x	x	x
Ontario	50	11, 489	24, 472	52, 755	4, 441	144, 097	288, 610	143, 167	4	12	16, 008	78, 778	152, 490
Manitoba	2	x	x	x	x	x	x	x	x	x	x	x	x
Saskatchewan .....	...	...	...	...	...	...	...	...	...	...	75	371	...
Alberta	5	x	x	x	x	x	x	x	—	—	x	x	x
British Columbia	5	47	112	229	30	259	778	523	x	x	263	1, 249	553
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	93	16, 879	36, 187	71, 846	5, 921	189, 212	386, 730	194, 613	10	32	24, 162	110, 974	204, 603

TABLE 1 B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	4	—	1	1	1	7	19	11	2	3	—	1	11
\$ 10,000 to \$ 24,999	5	9	19	31	1	30	88	57	3	8	11	39	59
25,000 " 49,999	6	10	21	34	4	85	216	127	3	16	16	53	130
50,000 " 99,999	4	10	21	31	3	177	308	127	—	—	18	85	128
100,000 " 199,999	6	64	138	243	19	331	891	558	1	3	83	364	590
200,000 " 499,999	17	384	800	1,205	150	2,111	5,291	3,027	—	—	506	1,950	3,350
500,000 " 999,999	8	453	961	1,458	134	2,313	6,530	4,138	—	—	579	2,171	4,231
1,000,000 " 4,999,999	19	2,331	5,146	7,993	692	20,147	46,469	26,162	—	—	3,049	11,982	27,008
5,000,000 and over	21	12,303	27,012	55,336	4,546	145,570	294,151	146,320	—	—	15,563	73,147	152,634
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	2,963	14,412	(430)
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													
Under \$10,000	3	2	4	5	1	15	17	6	—	—	4	11	5
\$ 10,000 to \$ 24,999	5	10	20	28	2	31	75	53	1	3	13	34	52
25,000 " 49,999	7	12	23	37	3	84	213	127	5	16	18	57	133
50,000 " 99,999	6	22	46	72	5	213	418	224	3	8	30	127	223
100,000 " 199,999	6	81	156	237	16	389	954	567	1	5	104	378	603
200,000 " 499,999	15	324	688	1,136	113	2,148	4,961	2,825	—	—	424	1,758	3,233
500,000 " 999,999	7	373	830	1,227	137	1,443	4,537	2,911	—	—	445	1,688	3,207
1,000,000 " 4,999,999	22	2,759	5,827	9,653	780	22,714	52,145	29,278	—	—	3,535	14,315	29,889
5,000,000 and over	22	13,296	28,594	59,453	4,865	162,175	323,409	158,623	—	—	16,702	78,690	167,791
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	2,887	13,916	(534)
Totals	93	16,879	36,187	71,846	5,921	189,212	386,730	194,613	10	32	24,162	110,974	204,603

TABLE 1 C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	5	1	2	3	1	16	34	18	2	3	2	8	18
\$ 10,000 to \$ 24,999	10	15	32	52	5	143	308	161	5	17	24	84	166
25,000 " 49,999	4	13	27	41	4	140	289	143	1	7	19	86	145
50,000 " 99,999	5	42	97	168	15	340	806	434	—	—	69	343	587
100,000 " 199,999	11	172	341	539	75	1,164	2,654	1,422	1	3	226	864	1,483
200,000 " 499,999	14	535	1,130	1,767	182	4,663	9,541	4,712	—	—	678	2,633	4,841
500,000 " 999,999	10	659	1,474	2,163	225	5,274	12,660	7,272	—	—	866	3,245	7,367
1,000,000 " 4,999,999	22	6,489	14,106	24,423	2,058	56,776	123,693	65,297	—	—	8,258	33,666	66,710
5,000,000 and over	9	7,738	16,908	37,176	2,985	102,254	203,978	101,069	—	—	9,683	48,862	106,825
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	2,963	14,412	(430)
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													
Under \$10,000	6	8	16	20	3	35	53	28	—	—	12	31	27
\$ 10,000 to \$ 24,999	10	21	41	63	3	135	305	173	7	20	28	85	179
25,000 " 49,999	5	14	29	52	5	202	381	194	2	6	22	102	194
50,000 " 99,999	4	67	133	177	19	321	653	310	1	5	80	260	339
100,000 " 199,999	11	194	395	666	79	1,416	3,053	1,657	—	—	263	1,103	1,817
200,000 " 499,999	15	467	1,025	1,711	187	4,980	10,084	4,746	—	—	593	2,521	5,111
500,000 " 999,999	10	726	1,646	2,605	247	5,829	13,339	7,746	—	—	952	3,860	8,056
1,000,000 " 4,999,999	22	6,459	13,718	24,111	1,984	57,351	124,685	65,339	—	—	8,098	33,087	66,182
5,000,000 and over	10	8,922	19,183	42,442	3,395	118,943	234,177	114,420	—	—	11,227	56,010	123,233
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	2,887	13,916	(534)
Totals	93	16,879	36,187	71,846	5,921	189,212	386,730	194,613	10	32	24,162	110,974	204,603

TABLE 1 D. Principal Statistics classified by Size Groups based on Total Value Added, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	6	1	3	4	1	66	94	28	2	3	4	17	28
\$ 10,000 to \$ 24,999	9	15	31	51	5	93	247	151	5	17	22	75	156
25,000 "	4	13	27	41	4	140	289	143	1	7	19	86	145
50,000 "	4	33	74	131	12	241	573	340	-	-	47	208	363
100,000 "	10	162	323	508	71	1,058	2,352	1,254	1	3	210	803	1,264
200,000 "	17	580	1,230	1,946	200	5,172	10,886	5,477	-	-	758	3,033	5,785
500,000 "	9	633	1,415	2,051	215	4,971	11,849	6,768	-	-	824	3,041	6,867
1,000,000 " 4,999,999	21	5,960	12,927	22,012	1,871	50,611	112,557	60,338	-	-	7,580	30,460	61,675
5,000,000 and over	10	8,267	18,087	39,857	3,172	108,419	215,114	106,028	-	-	10,361	52,069	111,860
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	2,963	14,412	(430)
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													
Under \$10,000	6	8	16	20	3	35	53	28	-	-	12	31	27
\$ 10,000 to \$ 24,999	8	16	31	47	2	117	245	128	7	20	18	53	127
25,000 "	7	19	39	68	6	219	441	240	2	6	32	133	246
50,000 "	3	34	71	115	15	268	521	235	-	-	45	190	236
100,000 "	10	202	398	634	69	1,039	2,406	1,390	1	5	253	931	1,425
200,000 "	16	456	1,005	1,598	178	4,808	9,746	4,612	-	-	588	2,508	5,099
500,000 "	11	762	1,725	2,811	269	6,431	14,457	8,222	-	-	1,002	4,115	8,563
1,000,000 " 4,999,999	22	6,459	13,718	24,111	1,984	57,351	124,685	65,339	-	-	8,098	33,087	66,182
5,000,000 and over	10	8,923	19,183	42,442	3,395	118,943	234,177	114,420	-	-	11,227	56,010	123,232
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	2,887	13,916	(534)
Totals	93	16,879	36,187	71,846	5,921	189,212	386,730	194,613	10	32	24,162	110,974	204,603

TABLE 1 E. Principal Statistics classified by Size Groups based on Total Employed, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under 5 employed	17	19	41	66	6	198	452	248	8	27	31	121	254
5- 14 employed	8	55	123	206	21	569	1,311	740	-	-	83	370	765
15- 49 "	20	387	809	1,292	150	4,171	8,590	4,275	1	3	553	2,370	4,597
50- 99 "	10	589	1,305	1,844	198	4,261	10,090	5,702	-	-	754	2,676	5,803
100-199 "	11	1,080	2,393	4,059	510	13,993	31,564	17,359	-	-	1,506	6,485	18,206
200-499 "	8	2,021	4,520	8,081	849	18,713	43,306	23,862	-	-	2,533	10,983	23,817
500 employed and over	16	11,513	24,927	50,784	3,816	128,867	258,649	128,342	-	-	14,365	66,787	134,699
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	2,963	14,412	(430)
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													
Under 5 employed	16	23	46	68	5	187	414	235	6	19	35	122	237
5- 14 employed	8	38	76	134	11	349	852	541	3	8	56	227	556
15- 49 "	22	431	925	1,499	174	4,785	9,306	4,471	1	5	582	2,475	4,786
50- 99 "	10	502	1,137	1,890	169	4,892	11,117	5,948	-	-	671	2,902	6,165
100-199 "	13	1,510	3,220	5,830	656	18,894	41,730	22,692	-	-	1,986	8,739	23,492
200-499 "	8	2,157	4,666	8,485	895	20,636	45,846	24,905	-	-	2,669	11,540	24,745
500 employed and over	16	12,218	26,116	53,942	4,011	139,469	277,466	135,820	-	-	15,276	71,052	145,156
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	2,887	13,916	(534)
Totals	93	16,879	36,187	71,846	5,921	189,212	386,730	194,613	10	32	24,162	110,974	204,603

TABLE 1F. Principal Statistics classified by Type of Organization, 1962 and 1963

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		Total employees		Total value added	
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages		
	No.		'000			\$'000				\$'000			\$'000	
1962														
Individual ownerships	8	}	26	51	82	6	94	296	195	9	31	26	82	204
Partnerships	1													
Incorporated companies	81	15,638	34,067	66,250	5,544	170,677	353,666	180,333	...	...	19,799	89,709	187,938
Cooperatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	2,963	14,412	(430)
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														
Individual ownerships	7	}	50	97	115	6	208	409	215	10	32	53	126	243
Partnerships	2													
Incorporated companies	84	16,829	36,090	71,731	5,915	189,004	386,320	194,398	...	...	21,222	96,932	204,894
Cooperatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	2,887	13,916	(534)
Totals	93	18,879	36,187	71,846	5,921	189,212	386,730	194,613	10	32	24,162	110,974	204,603	

TABLE 2. Industry Output, Input and Value Added, 1962 and 1963

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
\$'000						
Output						
1. Shipments and other revenue	353,962	386,730	45,660	49,847	399,622	436,577
Inventories - Goods of own manufacture:						
Add closing - Goods in process	10,086	10,368	...	...	10,086	10,368
Finished goods	46,868	50,253	...	...	46,868	50,253
Less opening - Goods in process	8,634	10,184	...	...	8,634	10,184
Finished goods	45,432	47,420	...	...	45,432	47,420
2. Net inventory change	2,868	3,017	...	...	2,888	3,017
3. Gross output (1+2)	356,850	389,747	45,660	49,847	402,510	439,594
Input						
4. Purchases of goods not of own manufacture .....	...	...	36,260	34,471	36,260	34,471
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	6,421	6,760	6,421	6,760
Less closing .....	...	...	6,153	7,382	6,153	7,382
5. Cost of goods sold (not of own manufacture) .....	...	...	36,528	33,849	36,528	33,849
6. Materials, supplies, components and semi-processed goods	170,771	189,212	1,948	6,009	172,719	195,221
7. Fuel and electricity	5,550	5,921	...	...	5,550	5,921
8. Gross input (5+6+7)	176,321	195,133	38,476	39,858	214,797	234,991
Census value added (3-8)	180,528	194,613	7,184	9,989	187,712	204,603

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Admin- istra- tive and office	Sales and distrib- ution	Total salaries and wages
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufacturing	Other			
number										\$'000					
1962															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	74	10	74	10	—	—	—	391	391
Quebec	x	x	—	—	x	x	x	x	x	x	x	—	x	x	x
Ontario	8,723	1,736	70 ^f	8 ^f	2,173 ^f	841 ^f	1,035	226	12,001	2,811	48,540	397 ^f	16,929 ^f	7,495	73,361
Manitoba	x	x	—	—	x	x	x	x	x	x	x	x	x	x	x
Saskatchewan	—	—	—	—	—	—	66	12	66	12	—	—	—	378	378
Alberta	x	x	—	—	x	x	x	x	x	x	x	—	x	x	x
British Columbia	39	5	—	—	17	4	170	40	226	49	197	—	121	969	1,287
Yukon and Northwest Terri- tories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	12,405	3,259	70 ^f	8 ^f	3,209 ^f	1,283 ^f	2,133	421	17,817	4,971	66,331	397 ^f	23,870 ^f	13,605	104,203
1963															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	75	6	75	8	—	—	—	346	346
Quebec	x	x	—	—	x	x	x	x	x	x	x	—	x	x	x
Ontario	9,550	1,939	76	8	2,239	868	1,114	214	12,979	3,029	52,755	373	17,594	8,055	78,778
Manitoba	x	x	—	—	x	x	x	x	x	x	x	—	x	x	x
Saskatchewan	—	—	—	—	—	—	75	9	75	9	—	—	—	371	371
Alberta	x	x	—	—	x	x	x	x	x	x	x	—	x	x	x
British Columbia	41	8	—	—	12	7	160	37	213	50	229	—	137	883	1,249
Yukon and Northwest Terri- tories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	13,377	3,502	76	8	3,300	1,314	2,198	387	18,951	5,211	71,846	373	24,924	13,831	110,974

TABLE 3A. Production and Related Workers, - Manufacturing Activity, by Months, 1962 and 1963

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	11,702	2,919	12,970	3,388
February	11,777	2,957	12,980	3,384
March	11,819	3,023	13,018	3,409
April	11,971	3,066	13,210	3,481
May	12,334	3,188	13,501	3,651
June	12,589	3,385	13,611	3,602
July	12,581	3,265	13,577	3,463
August	12,803	3,465	13,609	3,497
September	12,873	3,558	12,982	3,088
October	12,888	3,502	13,740	2,676
November	12,877	3,431	13,621	3,725
December	12,673	3,355	13,657	3,618
Average for establishments reporting monthly detail (collected only for large establishments) ..	12,405	3,259	13,377	3,502
Average for small establishments (only annual averages collected) .....	...	...	...	...
Average for all establishments	12,405	3,259	13,377	3,502

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	x	x	x	x	x	x
Ontario	16,689	8,236	49,509	74,434	5,754	80,188
Manitoba	x	x	x	x	x	x
Saskatchewan	—	—	—	—	—	—
Alberta	x	x	x	x	x	x
British Columbia	—	—	100	100	—	100
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	21,700	10,184	58,927	90,811	6,760	97,571
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	x	x	x	x	x	x
Ontario	17,491	8,201	53,908	79,600	6,626	86,226
Manitoba	x	x	x	x	x	x
Saskatchewan	—	—	—	—	—	—
Alberta	x	x	x	x	x	x
British Columbia	—	—	134	134	—	134
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	22,885	10,368	63,029	96,282	7,382	103,664

TABLE 5. Purchased Fuel and Electricity Used in Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton 43	1	3,485	40
(b) Imported	" 138,257	1,520	115,224	1,264
Sub-bituminous coal (from Alberta mines only)	" -	-	-	-
Anthracite coal	" 97	2	35	1
Lignite coal	" -	-	-	-
Coke	" -	-	-	-
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 297,847	105	375,540	133
Fuel oil including kerosene or coal oil	" 7,082,407	650	11,723,629	909
Wood	cord -	-	150	1
Gas:				
(a) Liquefied petroleum gases	Imp. gal. 27,384	5	96,937	20
(b) Other manufactured gas	M cu.ft. 1,385	2	1,000	1
(c) Natural gas	" 383,907	179	513,319	268
Other fuel -	-	...	-
Electricity purchased	kwh. 327,420,781	2,739	357,668,469	2,940
Steam purchased .....	... -	198	...	208
2. Estimate for small establishments:				
Fuel and electricity .....	...	149	...	136
3. All establishments:				
Total fuel and electricity used .....	...	5,550	...	5,921

¹ The difference between figures in Table 4 and those in Table 2 arises from firms reporting output of products on the basis of production rather than of shipments. Consequently, inventories of finished products for such respondents are not taken into account for purposes of compiling value added in Table 2. See also "Concepts and Definitions" for explanation of other variances.

TABLE 6. Materials and Supplies - Manufacturing Activity, 1962 and 1963

Description		1962		1963	
		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Materials used:					
Rubber, natural ¹	lb.	78,267,890	22,304	80,313,550	22,664
Rubber, reclaimed ¹	"	39,452,550	4,867	42,625,639	5,310
Rubber, synthetic ¹	"	160,660,902	35,282	181,074,473	39,363
Rubber, scrap	"	17,942,186	637	19,859,534	1,001
Crude allied gums	"	44,956	117	30,619	77
Latex compounds	"	1,263,528	381	3,351,292	846
Tread rubber (camel back)	"	258,765	91	84,298	49
Rubber, other (including master batches, tubing, etc.)	"	..	500	..	714
Plastics, synthetic resins	lb.	19,885,698	4,229	22,977,941	4,743
Plastics, other	"	1,546,160	1,023	1,774,813	1,220
Tire fabrics, cotton	"	1,887,335	1,412	1,582,359	1,270
" " rayon	"	13,968,797	10,348	14,425,015	10,936
Tire fabrics, all other (nylon, etc.)	"	15,597,993	19,717	20,696,001	25,033
Hose fabrics	"	620,860	472	706,101	569
Belting duck	"	3,419,099	3,085	3,217,801	2,461
Belting fabrics, other	"	459,951	412	766,605	679
Holland cloth	"	80,144	81	125,225	106
Shoe fabrics, other than leather	"	610,595	620	864,983	891
Miscellaneous cottons	yd.	9,973,524	3,170	10,308,897	3,256
Other fabrics, n.e.s.	"	5,415,697	2,807	4,854,771	2,881
Yarns, cotton	lb.	304,939	311	337,714	340
" " rayon, nylon, etc.	"	1,545,650	1,423	1,491,057	1,317
Felt	"	18,200	30	25,200	36
Jutex	"	407,174	100	337,195	85
Fur	yd.	963,456	262	966,998	240
Mouton shearling	lb.	92,983	76	174,185	143
Leather	"	426,145	564	455,519	603
Leather tops for boots	prs.	32,497	65	8,000	18
Carbon black	lb.	84,518,164	6,748	93,234,697	7,812
China clay	"	19,070,556	326	20,150,950	354
Other clays and earths	"	10,759,002	205	12,869,708	268
Mica, ground	"	544,807	54	586,058	59
Solvents	gal.	4,013,778	1,156	4,981,463	1,362
Fatty acids	lb.	2,872,704	234	9,008,250	466
Sulphur	"	5,987,903	446	6,414,983	468
Whiting	"	20,942,782	332	20,405,213	344
Litharge	"	207,592	226	232,977	292
Zinc oxide	"	10,192,547	1,309	10,990,922	1,388
Talc and soapstone	"	2,796,971	142	2,623,836	61
Barytes	"	983,358	47	631,900	28
Titanium-dioxide	"	1,901,147	483	1,943,543	496
Accelerators, n.e.s.	"	3,411,887	2,040	3,987,881	2,330
Coloring agents, n.e.s.	"	2,497,667	606	1,264,919	492
Dispersing agents, n.e.s.	"	216,738	48	287,336	69
Plasticizers, n.e.s.	"	18,266,552	2,788	21,245,274	3,392
Anti-oxidants, n.e.s.	"	4,113,129	2,297	4,709,864	2,788
Fillers, n.e.s.	"	21,571,805	847	23,771,508	1,037
Other chemicals, n.e.s.	"	..	4,507	..	5,518
Oils	lb.	712,923	89	787,673	105
Wire	"	11,098,777	2,495	12,227,061	2,850
Hardware fittings (hose couplings, cocks, etc.)	"	..	1,464	..	1,755
Shoe findings, buckles, eyelets, etc.	"	..	1,548	..	1,422
Lacquers, etc. (dispersions of resins)	gal.	415,945	316	148,532	362
Rubber cement	"	135,968	232	142,258	247
Paints, varnishes, etc.	"	124,527	116	102,704	115
Thread for sewing	"	..	29	..	37
Hose jackets	"	..	241	..	130
All other materials and components used ² .....	..	..	12,633	..	11,817
2. Containers and other packaging materials and supplies used .....		..	4,568	..	4,885
3. Operating, maintenance and repair supplies used (excluding fuel) .....		..	7,243	..	8,711
4. Amount paid out to others for work done on materials owned by establishments .....		..	570	..	903
Totals .....		..	170,771	..	189,212

¹ For details of "Rubber used" see Tables 9 to 13, inclusive.

² No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$2,746,855 in 1962 and \$2,547,481 in 1963.

TABLE 7. Shipments of Goods of Own Manufacture, 1962 and 1963

Description	Value	
	1962	1963
	\$'000	
Footwear	35,746	36,739
Tires	156,456	170,003
Tubes	8,085	8,515
Other	154,312	172,080
Total shipments	354,599	387,337
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(637)	(607)
Total shipments (adjusted)	353,962	386,730

TABLE 7 A. Shipments of Footwear, 1962 and 1963

Kind	1962		1963	
	Quantity	Value	Quantity	Value
	pairs	\$'000	pairs	\$'000
Boots, all rubber:				
(a) Knee, thigh and hip	973,954	3,383	1,091,213	3,487
(b) Lumbermen's, etc.	279,330	1,409	235,061	1,111
Boots, rubber bottoms and leather tops:				
Lumbermen's, etc.	112,103	682	122,765	641
Bottoms for leather tops	176,302	415	159,661	346
Overshoes and goloshes:				
(a) Cloth uppers	882,686	3,820	1,224,511	4,749
(b) All rubber, lined and unlined	2,926,272	8,268	2,753,983	7,272
Light and heavy rubbers	2,854,728	3,728	3,017,766	3,728
Footwear, with canvas or other fabric tops:				
(a) Utility	2,581,162	4,410	3,274,613	5,204
(b) Casual	748,416	1,506	888,283	1,904
Bathing shoes	1	1	1	1
Plastic waterproof footwear, all types	2,828,804	3,904	2,476,503	3,704
Leather footwear	1	1	1	1
Other footwear .....	...	4,221	...	4,433
Total footwear	16,306,490	35,746¹	17,327,536	36,739²

¹ Included in "Other footwear".

² See Table 7.

TABLE 7 B. Shipments of Tires, by Type, 1963

Type	Premium and first line	Second line	Third and fourth lines	Total	Value
	number				\$'000
Pneumatic tires (including tubeless):					
Passenger car all ply ratings	7,571,270	1,697,789	1,064,064	10,333,123	101,290
Truck and bus (including earth-mover, excavator, logger and grader):					
(a) Sizes smaller than 12.00 - 22:					
Highway	866,143	111,186	-	977,329	37,033
Off the road	88,734	8,638	-	97,372	9,057
(b) Sizes 12.00 - 22 and larger:					
Highway	1,269	-	-	1,269	164
Off the road	24,530	-	-	24,530	8,657
Tractor and implement	416,465	64,986	-	481,451	11,789
Boat trailer	9,247	-	-	9,247	59
Mobile home (trailer)	763,327	11,795	-	775,122	1,557
Industrial, pneumatic and semi-pneumatic (including wheelbarrow)					
Aeroplane, motorcycle and side car, bicycle, and pneumatic tires, n.e.s.					
Solid and cushion tires:					
All types: (including lawn mower, wheelbarrow, pressed-on and moulded-on)	48,162	-	-	48,162	397
Total tires	9,789,147	1,894,394	1,064,064	12,747,605	170,003¹

¹ See Table 7.

TABLE 7 C. Shipments of Tubes, by Types, 1963

Type	First line	Second line	Total	Value
		number		\$'000
Passenger car	1, 753, 311	692, 434	2, 445, 745	3, 513
Truck and bus:				
(a) Sizes smaller than 12.00-22	876, 866	—	876, 866	3, 119
(b) Sizes 12.00-22 and larger	27, 281	—	27, 281	380
Tractor and implement	1	—	1	1
Boat trailer	1	—	1	1
Aeroplane, motorcycle and side car, bicycle, and tire tubes, n.e.s.	851, 607	94, 839	946, 446	1, 503
Total tubes	3, 509, 065	787, 273	4, 296, 338	8, 515²

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

² See Table 7.

TABLE 7 D. Shipments of Other Products, 1962 and 1963

Principal products		1962		1963	
		Quantity	Value	Quantity	Value
			\$'000		\$'000
Clothing (rubber, rubberized, etc.)	doz.	15, 827	1, 440	19, 370	1, 367
Fabrics (rubberized, plastic-coated, etc.)	sq. yd.	2, 289, 434	2, 442	4, 650, 484	6, 314
Artificial and imitation leather		1	1	1	1
Rubber and composition soles (full and taps)	pr.	6, 756, 037	2, 495	7, 787, 835	3, 102
Rubber and composition heels	"	12, 962, 461	1, 736	11, 936, 680	2, 042
Rubber and composition soling and toplifting sheets	lb.	15, 232, 491	5, 118	14, 002, 848	4, 680
Belts and belting:					
Conveyor	"	6, 493, 124		8, 846, 635	
	lin. ft.	1, 209, 199	5, 472	1, 442, 610	6, 061
Transmission, flat type	lb.	1, 905, 373	1, 322	1, 340, 318	1, 360
Transmission, V-type, automotive fan belts:					
Original equipment	No.	922, 248	467	1, 128, 482	588
Replacement	"	1, 700, 849	1, 619	1, 702, 230	1, 654
Transmission, V-type, fractional h.p. belts	"	1, 931, 808	1, 046	1, 975, 471	1, 045
V-type, other belts - Multi-V	"	1, 169, 408	1, 345	538, 666	1, 216
Rubber belts and belting, other (including agricultural) .....		..	1, 454	..	2, 106
Hose and tubing:					
Garden hose, rubber	ft.	8, 983, 779	872	9, 645, 205	963
Automotive hose	"	7, 057, 205	1, 592	7, 463, 614	1, 656
Heavy industrial hose	"	7, 836, 642	5, 668	8, 030, 319	6, 353
Light industrial hose, fire hose and all other rubber tubing .....		..	4, 545	..	4, 711
Plastic garden hose, other hose and flexible tubing .....		..	652	..	794
Plastic pipes, film and sheet and other extruded plastic products .....		..	2, 687	..	3, 746
Rubber packing, all kinds	lb.	3, 667, 319	2, 013	3, 622, 539	1, 939
Rubber supplies, such as washers, gaskets, etc. ....		...	3, 708	...	3, 686
Rubber thread, covered and not covered	lb.	913, 742	1, 571	1, 063, 688	1, 847
Rubber and friction tape	"	1, 847, 193	1, 382	3, 049, 932	2, 466
Pressure sensitive tape, including cellulose		1	1	1	1
Printers rolls and other rubber rolls	No.	112, 595	454	77, 738	424
All other rubber rolls and coverings (including wringer rolls) .....		..	2, 283	..	2, 828
Rubber coverings and linings, for tanks, pipes, etc.	lb.	3, 345, 215	2, 912	3, 412, 033	2, 830
Rubber floor mats, matting, stair treads, etc.	"	4, 021, 458	924	4, 528, 405	1, 049
Rubber mats for automobiles	No.	1, 006, 191	2, 809	1, 603, 522	3, 744
Link mats for doors, etc.	sq. ft.	250, 057	261	272, 277	208
Rubber sheet flooring and wainscoting		1	1	1	1
Rubber tiles		1	1	1	1
Rubber tires and tiring, for baby carriages, etc.	lb.	1, 062, 447	211	1, 128, 178	226
Repair gums and fabrics	"	724, 856	642	988, 127	795
Other unvulcanized gums	"	665, 929	391	709, 849	448
Tread rubber (Camelback)	"	19, 531, 770	6, 406	16, 755, 258	5, 515
Cured rubber, in slabs		1	1	1	1

See footnote at end of table.

TABLE 7 D. Shipments of Other Products, 1962 and 1963 - Concluded

Principal products	1962		1963	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
Rubber adhesives:				
Neoprene	gal. 1,628	7	26,301	61
Other (including natural rubber)	" 971,968	2,952	1,372,711	3,169
Tire and tube repair materials (patches, etc.) .....	...	901	...	1,148
Tube repair kits	No. 708,890	152	798,095	183
Rubber blankets, printers', etc.	lb. 374,972	370	358,666	369
Battery containers	}	4,157	..	4,067
Battery covers, vents, etc.				
Channel rubber	1	1	1	1
Rubber automotive and aeroplane parts, n.e.s.	lb. 7,545,647	5,279	6,551,325	6,429
Druggists' and medical sundries (including rubber sheeting and rubberized sheets) .....	..	1,118	..	805
Gloves, rubber	doz. pr. 219,339	1,072	229,028	1,152
Gloves, plastic, rubberized and plastic coated fabric	" 28,102	198	27,067	174
Rubber jar rings	1	1	1	1
Weather stripping, all kinds	lb. 5,715,687	2,778	8,734,367	3,776
Sanitary goods, n.e.s. ....	...	136	...	159
Aprons, rubber, rubberized and plastic	doz. 4,356	110	4,662	107
Bathing caps, shower caps, etc.	1	1	1	1
Rubber play balls	1	1	1	1
Rubber toys (including rubber and plastic dolls) .....	..	76	..	69
Hockey pucks	1	1	1	1
Balloons, toy	gross 364,200	647	389,274	689
Extruded rubber goods, n.e.s. ....	..	921	..	912
Moulded rubber goods, n.e.s. ....	..	4,997	..	6,367
Moulded plastics, n.e.s. ....	..	1,822	..	2,030
Other plastic products, n.e.s. (bags, covers, tapes, tiles, toys, folding doors, etc.) .....	..	8,716	..	7,946
Sponge and hard rubber mats, pads, cushions, etc.	lb. 272,143	310	216,320	141
Foamed latex	1	1	1	1
Rug underlay or cushioning	1	1	1	1
Latex compounds (natural and synthetic)	lb. 7,410,570	3,130	7,037,789	3,268
Dies and moulds	No. 1,042	49	1	1
All other products .....	...	44,321	...	48,901
Amount received in payment for work done on materials and products owned by others .....	..	2,154	...	2,415
Total value of other products .....	...	154,312²	...	172,080²

¹ Included with "All other products".

² See Table 7.

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries, 1962 and 1963

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

Description	1962		1963	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
Pressure-sensitive tapes:				
Plastic tape, all types	sq. yd. ...	5,548	8,570	5,232
Cloth tape, all types	" ...	5,949	1,511	1,504
Paper tape, all types	" ...		11,956	4,536
Rubber tiles	sq. ft. 1	1	6,570,812	1,519
Foamed latex and chemically blown rubber	lb. 5,063,553	4,930	6,552,873	5,345
Rug underlay and cushioning, all types .....	...	6,246	...	5,372

¹ Confidential data.

The statistics contained in the body of this report are compiled from returns submitted annually by firms whose principal operations necessitate that they be classified under the Rubber Industries. However, there are other firms using rubber, most notably those engaged in Wire and Cable manufacturing, whose operations are outside the scope of the Rubber Industries. In order that there may be available a total picture of rubber as a Commodity a monthly survey is maintained, in which all firms using rubber at the raw level are included.

This survey results in statistics on the total consumption of rubber, by types, and by broad end product use groups, and data of this nature compiled from monthly returns are presented in the special supplementary tables following this text.

Because of rounding, the totals in Tables 10 to 13, inclusive, do not always agree with the total of the monthly figures.

TABLE 9. Consumption of Synthetic Rubber, by Types and by Months, 1963

Month	S-type		Butyl	Neoprene	N-type	Other	Total
	Solid	Latex					
	'000 lbs.						
January	12,080	572	917	745	108	818	15,240
February	11,775	583	886	785	117	716	14,862
March	12,743	700	1,026	754	111	892	16,226
April	11,896	628	946	748	121	753	15,092
May	13,010	645	1,085	788	107	909	16,544
June	13,315	669	1,062	852	133	967	16,998
July	10,471	508	784	627	87	880	13,357
August	9,920	558	739	723	98	837	12,875
September	12,291	644	949	901	130	1,318	16,233
October	13,741	778	1,104	878	130	1,416	18,047
November	12,200	672	1,001	817	119	1,412	16,221
December	11,826	658	952	812	128	1,514	15,890
Totals	145,268	7,615	11,451	9,430	1,389	12,432	187,585

TABLE 10. Consumption of Synthetic Rubber, in Total, by End Products, and by Months, showing also Percentage of Synthetic to All Rubber Consumed, 1963

Month	Synthetic		Consumed in the manufacture of				
	Total	Percentage of all rubber	Tires and tubes ¹	Wire and cable	Footwear ²	Foamed rubber	Other products
	'000 lbs.	%			'000 lbs.		
January	15,240	59.1	10,755	605	1,354	314	2,212
February	14,862	58.9	10,154	658	998	313	2,739
March	16,226	60.4	11,639	704	846	407	2,630
April	15,092	59.6	10,589	636	932	367	2,568
May	16,544	59.2	11,881	736	898	361	2,668
June	16,998	59.8	12,303	673	954	313	2,755
July	13,357	58.7	9,969	378	603	128	2,279
August	12,875	62.5	8,649	549	857	328	2,492
September	16,233	60.2	11,594	711	833	375	2,720
October	18,047	61.1	13,002	694	950	452	2,949
November	16,221	59.8	11,669	639	455	385	3,073
December	15,890	61.5	11,082	691	877	355	2,885
Totals	187,585	60.1	133,286	7,674	10,557	4,096	31,970

¹ Includes "Tire repair materials".
² Includes "Heels, soles, etc.".

TABLE 11. Consumption of Natural Rubber in Total, by End Products, and by Months, showing also Percentage of Natural to all Rubber Consumed, 1963

Month	Natural		Consumed in the manufacture of				
	Total	Percentage of all rubber	Tires and tubes ¹	Wire and cable	Footwear ²	Foamed rubber	Other products
	'000 lbs.	%			'000 lbs.		
January	6,849	26.6	4,813	37	581	85	1,333
February	6,554	26.0	4,689	39	608	91	1,127
March	6,527	24.3	4,638	48	601	107	1,133
April	6,396	25.3	4,425	64	677	95	1,135
May	7,316	26.2	5,265	43	693	98	1,217
June	7,295	25.6	5,331	40	659	96	1,169
July	6,227	27.4	4,687	25	307	97	1,111
August	5,038	24.4	3,198	50	543	80	1,167
September	7,088	26.3	4,964	43	601	98	1,382
October	7,495	25.4	5,271	48	564	133	1,479
November	7,381	27.2	5,186	61	641	118	1,375
December	6,541	25.4	4,624	39	466	93	1,319
Totals	80,707	25.8	57,091	537	6,941	1,191	14,947

¹ Includes "Tire repair materials".
² Includes "Heels, soles, etc.".

TABLE 12. Consumption of Reclaimed Rubber in Total, by End Products, and by Months, showing also Percentage of Reclaimed to All Rubber Consumed, 1963

Month	Reclaimed		Consumed in the manufacture of				
	Total	Percentage of all rubber	Tires and tubes ¹	Wire and cable	Footwear ²	Foamed rubber	Other products
	'000 lbs.	%			'000 lbs.		
January	3,698	14.3	2,568	3	238	—	889
February	3,816	15.1	2,620	2	160	—	1,034
March	4,110	15.3	2,917	2	133	82	976
April	3,821	15.1	2,664	4	114	—	1,039
May	4,075	14.6	2,731	1	144	—	1,199
June	4,151	14.6	2,923	3	147	—	1,078
July	3,165	13.9	2,321	—	77	—	767
August	2,703	13.1	1,735	3	128	—	837
September	3,625	13.5	2,492	1	147	—	985
October	4,009	13.5	2,851	3	134	—	1,021
November	3,534	13.0	2,337	1	66	—	1,130
December	3,387	13.1	2,154	—	133	—	1,100
Totals	44,094	14.1	30,313	23	1,621	82	12,055

¹ Includes "Tire repair materials".

² Includes "Heels, soles, etc.".

TABLE 13. Consumption of All Rubber, by Main Types and by End Products Classification, 1963

End products	Natural	Synthetic	Reclaimed	Total all rubber
	'000 lbs.			
Tires, tubes and tire repair materials	57,091	133,286	30,313	220,690
Wire and cable	537	7,674	23	8,234
Footwear (including heels, soles, etc.)	6,941	10,557	1,621	19,119
Foamed rubber	1,191	4,098	82	5,371
Other products	14,947	31,970	12,055	58,972
Totals	80,707	187,585	44,094	312,386

TABLE 14. Principal Statistics classified by Industry Sub-group, 1961-63

Year and sub-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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
Footwear manufacturers:													
1961	6	3,360	6,826	10,059	399	12,446	32,579	19,101	—	—	4,069	12,931	19,407
1962	6	3,902	8,158	11,381	394	14,906	36,664	22,731	—	—	4,612	14,403	23,151
1963	6	3,936	8,312	11,744	381	15,298	38,844	22,423	—	—	4,674	14,921	23,005
Tire and tube manufacturers:													
1961	10	5,615	12,270	26,987	2,675	88,560	180,248	83,471	—	—	7,307	35,754	83,505
1962	10	5,991	13,180	31,147	2,830	100,804	186,683	84,679	—	—	7,278	38,941	85,845
1963	10	6,566	14,051	33,843	3,057	112,447	207,111	94,247	—	—	8,322	43,786	95,521
Other rubber industries:													
1961	77	5,323	11,548	20,478	2,203	49,064	118,308	67,275	10	33	7,656	32,908	71,687
1962	74	5,771	12,780	23,803	2,327	55,061	130,614	73,119	9	31	7,935	36,448	79,148
1963	77	6,377	13,824	26,260	2,482	61,468	140,774	77,943	10	32	8,900	41,061	86,613

List of Establishments, classified to This Industry, 1963
Index to Industry: A Footwear; B Tire; C Other Products

Name	Location	Industry
Quebec:		
The Acton Rubber Ltd.	Acton Vale	A
American Bilrite Rubber Co. (Canada) Ltd.	255 Jenckes Lane, Sherbrooke	C
American Wringer Company (Division of Turnbull Elevator Ltd.)	155 Main St., Farnham	C
Arrowtape Industries Ltd.	1955 Notre Dame St., Lachine	C
Best Rubber Carpets Reg'd.	5073, rue de la Gare, Montreal 39	C
Bloomfield, M., & Sons Ltd.	7230 Alexandra St., Montreal 10	C
British Rubber Company Limited, The	455-19th Ave., Lachine	A
Canadian Lastex 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 Holtite Rubber Co. of Canada Ltd.	Lindsay St., Drummondville	C
Dominion Foam Products Reg'd.	535 St. Martin Street, Montreal	C
Dominion Rubber Co. Ltd.	St. Jérôme	A
Dominion Rubber Co. Ltd.	1806 Notre Dame St. E., Montreal	C
Dominion Rubber Co. Ltd. (Latex and Reclaim Division)	1830 Notre Dame St. E., Montreal	C
Dura Undercushions Ltd.	8525 Deimeade Rd., Montreal 9	C
Franco Plastics Extrusions	1052 Henault St., Montreal North	C
General Latex and Chemicals (Canada) Ltd.	425 River St., Verdun	C
B.F. Goodrich Sponge Products Canada Ltd.	Depot St., Waterville	C
Goodyear Tire & Rubber Co. of Canada Ltd., The	1195 Taillon St., Quebec	C
Jiffy Products Inc.	360 Victoria Ave., Westmount, Montreal 6	C
Laval Tanguay Inc.	1042 Wellington S., Sherbrooke	C
Lion Rubber & Plastics Ltd.	0140 Clement St., Ville Lasalle	C
Mt-Mail Ltd.	191 Denison Ave., Granby	A
Precision Rubber Products (Canada) Ltd.	156 Turgeon St., Ste-Thérèse-de-Blainville	C
Rockland Accessories Limited	Valcourt	C
Rubber Guild, The	2444 Centre St., Montreal 22	C
Stedfast Rubber Co. (Canada) Ltd.	Sydeman Ave., Granby	C
Tillotson Rubber Co. Ltd.	260 St-Michel St., St. John	C
Wilkinson Linatex Co. Ltd.	1975 Bois Franc Road, St-Laurent	C
Woodward, F.E., & Son 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
Auto-Marine Foam Products	47 Crockford Blvd., Scarborough	C
Bata Shoe Co. of Canada Ltd.	Batawa	A
Bilrite Tire Co. Ltd.	121 De Grassi St., Toronto 8	C
Bowes "Seal Fast" Co. Ltd.	765 Woodward Ave., Hamilton	C
Bracebridge Latex Products Ltd.	Highway 532, Bracebridge	C
Canadian Blasting Mat Co. Ltd.	441 Rennie Ave., Hamilton	C
Canadian Collord Products Ltd.	985 St. Luke Road, Windsor	C
Canadian Vapotred Ltd.	40 John St., Thoroid	B
Chase Grocord of Canada Ltd.	120 Townline, Tillsonburg	C
Clarke Roller & Rubber Ltd.	11 Newbridge St., Toronto 18	C
Cloudfoam Ltd.	284 Fairall St., Ajax	C
Dayton Rubber Co. (Canada) Ltd.	3723 Dundas St. W., Toronto 9	C
Dominion Rubber Co. Ltd.	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 Less & 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
Feather Industries Ltd.	115 Glen Scarlett Rd., Toronto 9	C
Federal Mogul Bower (Canada) Ltd.	Arthur St., Mitchell	C
Federal Mogul Bower (Canada) Ltd. (Federal Rubber Div.)	342 Erie St., Stratford	C
Firestone Tire & Rubber Co. of Canada Ltd.	1579 Burlington St. E., Hamilton	B

List of Establishments classified to This Industry, 1963 - Concluded

Name	Location	Industry
Ontario - Concluded:		
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
General Tire & Rubber Co. of Canada Limited (Industrial Products Division)	John St., Welland	C
B.F. Goodrich Canada Limited	521 King St. W., Kitchener	B
Goodyear Tire & Rubber Co. of Canada Ltd., The	Raynes St., Bowmanville	C
Goodyear Tire & Rubber Co. of Canada Ltd., The	3050 Lakeshore Blvd., New Toronto	B
Griffith, G.L., & Sons Ltd.	341 Erie Street, Stratford	C
Hamilton Kent of Canada Ltd.	3094 Mavis Rd., Cooksville	C
Kaufman Rubber Company Ltd.	410 King St. W., Kitchener	A
Latex Compounding Company	370 Bering Ave., Toronto 18	C
Mansfield Rubber (Canada) Limited	220 John St., Barrie	B
Minnesota Mining & Manufacturing of Canada Limited	Oxford St. Box 2757, London	C
National Rubber Co. Ltd.	394 Symington Ave., Toronto 9	C
Novelty Rubber Company	150 Canada Street, Hamilton	C
Remington Prod. (Canada) Ltd.	18 Foster St., Perth	C
Rubbermaid (Canada) Ltd.	2531 Stanfield Rd., Cooksville	C
Ruflex Limited	3 West Ave. S., Hamilton	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
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
Yale Rubber Mfg. Co. of Canada, Ltd.	66 Jutland Rd., Toronto 18	C
Manitoba:		
Shur-Foot Mat Company	221 Flora Ave., Winnipeg 4	C
Stearns Automotive Products Ltd.	92 Gomez St., Winnipeg 2	C
Alberta:		
Fabrix Rubber Mat Co. Ltd.	10,027-92nd St., Edmonton	C
Firestone Tire & Rubber Co. of Canada Ltd.	2 Highway Blackfoot Trail, Calgary	B
Goodyear Tire & Rubber Co. of Canada Ltd. (The)	1271-12th St. N.W., Medicine Hat	B
Petroleum Rubber Ltd. (Continental Rubber Div.)	9725-62nd Ave., Edmonton	C
Tap-Master Corp. Ltd.	326-10th St. N.W., Calgary	C
British Columbia:		
A.C. Rubber Manufacturing Co. Ltd.	1430 Burrard St., Vancouver 1	C
Huntington Rubber Mills of Canada Ltd.	Dewdney Trunk Rd., Port Coquitlam	C
Reliable Rubber Mat Mfg. Company	3340 Findlay St., Vancouver 12	C
Seeway Fenders Ltd.	261 No. 7 Road, RR2, 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 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 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 140 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 various 1963 reports reflect the complete implementation of these changes and enable comparisons to be made with the years 1961 and 1962. 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 activity

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. 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. 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.). 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 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 materials and fuel and electricity consumed from the value of production (value of shipments 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

purchased for re-sale) and the cost of other 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 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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