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33-206

ANNUAL



# RUBBER INDUSTRIES

1964

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January 1967  
6506-600

Price: 50 cents

## PUBLICATIONS

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CATALOGUE No.

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ANNUAL

Rubber Industries

1964

ERRATA



Page 11, Table 12

Material used:

Litharge:

Quantity

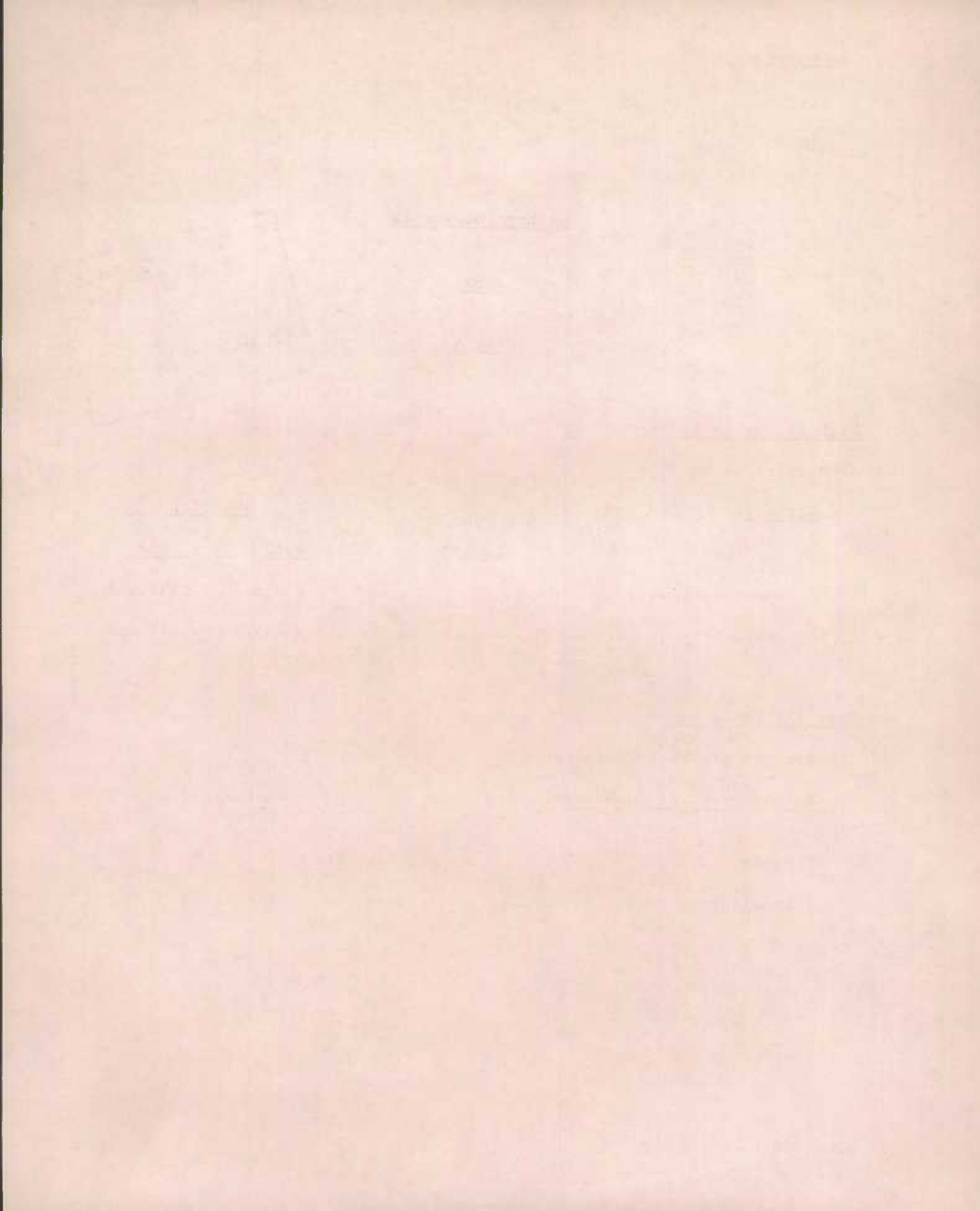
	<u>1963</u>	<u>1964</u>
Reads .....	232,977	291,257
Should read .....	2,232,977	2,291,257

Page 14, Table 13D

Shipments of Other Products:

Rug underlay or cushioning:

Reads ..... sq. ft.  
Should read ..... sq. yd.



## RUBBER INDUSTRIES

1964

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 20 which gives a breakdown of the separate principal statistics for all three industries for 1962, 1963 and 1964; 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 to 19, inclusive, present 1964 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 1964 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, 1961-64

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													
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
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	208,935	426,624	218,403	7	27	24,972	122,530	228,333

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1963 and 1964

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	
<b>1963</b>													
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)
<b>Totals .....</b>	<b>93</b>	<b>16,879</b>	<b>36,187</b>	<b>71,846</b>	<b>5,921</b>	<b>189,212</b>	<b>386,730</b>	<b>194,613</b>	<b>10</b>	<b>32</b>	<b>24,162</b>	<b>110,974</b>	<b>204,603</b>
<b>1964</b>													
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 .....	5	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
<b>Totals .....</b>	<b>95</b>	<b>17,575</b>	<b>38,175</b>	<b>79,354</b>	<b>6,315</b>	<b>208,955</b>	<b>426,624</b>	<b>218,403</b>	<b>7</b>	<b>27</b>	<b>24,972</b>	<b>122,530</b>	<b>228,333</b>

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1963 and 1964

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	
<b>1963</b>													
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	8,923	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)
<b>Totals .....</b>	<b>93</b>	<b>16,879</b>	<b>36,187</b>	<b>71,846</b>	<b>5,921</b>	<b>189,212</b>	<b>386,730</b>	<b>194,613</b>	<b>10</b>	<b>32</b>	<b>24,162</b>	<b>110,974</b>	<b>204,603</b>
<b>1964</b>													
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	50	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	1,008	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
<b>Totals .....</b>	<b>95</b>	<b>17,575</b>	<b>38,175</b>	<b>79,354</b>	<b>6,315</b>	<b>208,955</b>	<b>426,624</b>	<b>218,403</b>	<b>7</b>	<b>27</b>	<b>24,972</b>	<b>122,530</b>	<b>228,333</b>



TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1963 and 1964

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	
<b>1963</b>													
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 " 49,999 .....	7	19	39	68	6	219	441	240	2	6	32	133	246
50,000 " 99,999 .....	3	34	71	115	15	268	521	235	-	-	45	190	236
100,000 " 199,999 .....	10	202	398	634	69	1,039	2,406	1,390	1	5	253	931	1,425
200,000 " 499,999 .....	16	456	1,005	1,598	178	4,808	9,746	4,612	-	-	588	2,508	5,099
500,000 " 999,999 .....	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	66,162
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)
<b>Totals</b> .....	<b>93</b>	<b>16,879</b>	<b>36,187</b>	<b>71,846</b>	<b>5,921</b>	<b>189,212</b>	<b>386,730</b>	<b>194,613</b>	<b>10</b>	<b>32</b>	<b>24,162</b>	<b>110,974</b>	<b>204,603</b>
<b>1964</b>													
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	85	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	5,803
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
<b>Totals</b> .....	<b>93</b>	<b>17,575</b>	<b>38,175</b>	<b>79,354</b>	<b>6,315</b>	<b>208,955</b>	<b>426,624</b>	<b>218,403</b>	<b>7</b>	<b>27</b>	<b>24,972</b>	<b>122,530</b>	<b>228,333</b>

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1963 and 1964

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	
<b>1963</b>													
Under 5 employed .....	18	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	9,308	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)
<b>Totals</b> .....	<b>93</b>	<b>16,879</b>	<b>36,187</b>	<b>71,846</b>	<b>5,921</b>	<b>189,212</b>	<b>386,730</b>	<b>194,613</b>	<b>10</b>	<b>32</b>	<b>24,162</b>	<b>110,974</b>	<b>204,603</b>
<b>1964</b>													
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
<b>Totals</b> .....	<b>93</b>	<b>17,575</b>	<b>38,175</b>	<b>79,354</b>	<b>6,315</b>	<b>208,955</b>	<b>426,624</b>	<b>218,403</b>	<b>7</b>	<b>27</b>	<b>24,972</b>	<b>122,530</b>	<b>228,333</b>

TABLE 6. Principal Statistics classified by Type of Organization, 1963 and 1964

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	
<b>1963</b>													
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
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	2,887	13,916	(534)
<b>Totals .....</b>	<b>93</b>	<b>16,879</b>	<b>36,187</b>	<b>71,846</b>	<b>5,921</b>	<b>189,212</b>	<b>386,730</b>	<b>194,613</b>	<b>10</b>	<b>32</b>	<b>24,162</b>	<b>110,974</b>	<b>204,603</b>
<b>1964</b>													
Individual ownerships .....	6	41	78	94	5	133	304	168	7	27	43	102	176
Partnerships .....	1												
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
<b>Totals .....</b>	<b>95</b>	<b>17,575</b>	<b>38,175</b>	<b>79,354</b>	<b>6,315</b>	<b>208,935</b>	<b>426,624</b>	<b>218,403</b>	<b>7</b>	<b>27</b>	<b>24,972</b>	<b>122,530</b>	<b>228,333</b>

TABLE 7. Calculation of Output, Input and Value Added, 1963 and 1964

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1963	1964	1963	1964	1963	1964
\$'000						
<b>Output</b>						
1. Shipments and other revenue .....	386,730	426,624	49,847	49,741	436,577	476,365
Inventories—Goods of own manufacture:						
Add closing—Goods in process .....	10,368	11,343	...	...	10,368	11,343
Finished goods .....	50,253	55,896	...	...	50,253	55,896
Deduct opening—Goods in process .....	10,184	10,042	...	...	10,184	10,042
Finished goods .....	47,420	50,149	...	...	47,420	50,149
2. Net inventory change .....	3,017	7,048	...	...	3,017	7,048
3. Gross output (1+2) .....	389,747	433,672	49,847	49,741	439,594	483,413
<b>Input</b>						
4. Purchases of goods not of own manufacture .....	...	...	34,471	39,353	34,471	39,353
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	6,760	7,301	6,760	7,301
Deduct closing .....	...	...	7,382	9,652	7,382	9,652
5. Cost of goods sold (not of own manufacture) .....	...	...	33,849	37,002	33,849	37,002
6. Materials, supplies, etc. ....	189,212	208,955	6,009	2,809	195,221	211,764
7. Fuel and electricity .....	5,921	6,315	...	...	5,921	6,315
8. Gross input (5+6+7) .....	195,133	215,270	39,858	39,811	234,991	255,081
Value added (3-8) .....	194,613	218,403	9,989	9,930	204,603	228,333

TABLE 8. Employment and Payroll, 1963 and 1964

Year and Province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Admin- istrative and office	Sales and distri- bution	Total
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufacturing	Other			
number										\$'000					
1963															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	...	...	...	...	...	...	75	8	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	6	-	-	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
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

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1963 and 1964

Month	1963		1964	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January .....	12,970	3,388	13,157	3,497
February .....	12,980	3,384	13,277	3,462
March .....	13,018	3,409	13,243	3,530
April .....	13,210	3,481	13,224	3,473
May .....	13,501	3,651	13,392	3,573
June .....	13,611	3,602	13,650	3,621
July .....	13,577	3,463	13,469	3,394
August .....	13,609	3,497	13,795	3,618
September .....	12,982	3,088	13,813	3,778
October .....	13,740	2,676	13,928	3,684
November .....	13,621	3,725	13,798	3,519
December .....	13,657	3,618	13,738	3,484
Averages .....	13,377	3,502	13,543	3,555
Establishments reporting annual averages (small establishments only) .....	...	...	347	130
Average for all establishments .....	13,377	3,502	13,890	3,685



TABLE 10. Inventories, 1964

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 .....	x	x	x	x	x	x
Ontario .....	17,598	7,893	54,137	79,628	6,545	86,173
Manitoba .....	x	x	x	x	x	x
Saskatchewan .....	...	...	...	...	...	...
Alberta .....	x	x	x	x	x	x
British Columbia .....	74	2	67	143	—	143
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	23,352	10,042	62,925	96,319	7,301	103,620
Closing:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—
New Brunswick .....	...	...	...	...	...	...
Quebec .....	x	x	x	x	x	x
Ontario .....	20,568	8,958	59,456	89,002	8,791	97,793
Manitoba .....	x	x	x	x	x	x
Saskatchewan .....	...	...	...	...	...	...
Alberta .....	x	x	x	x	x	x
British Columbia .....	72	8	50	130	—	130
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	26,890	11,343	69,588	107,821	9,652	117,473

TABLE 11. Purchased Fuel and Electricity Used in Manufacturing Activity, 1963 and 1964

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines .....	ton	3,485	40	23
(b) Imported .....	"	115,224	1,264	731
Sub-bituminous coal (from Alberta mines only) .....	"	—	—	—
Anthracite coal .....	"	35	1	—
Lignite coal .....	"	—	—	—
Coke .....	"	—	—	—
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	375,540	133	124
Fuel oil including kerosene or coal oil .....	"	11,723,629	909	1,505
Wood .....	cord	150	1	—
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	96,937	20	12
(b) Other manufactured gas .....	M cu. ft.	1,000	1	—
(c) Natural gas .....	"	513,319	268	365
Other fuel .....	...	—	...	—
Electricity purchased .....	kwh.	357,668,469	2,940	3,174
Steam purchased .....	...	...	208	203
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	136	...	180
3. All establishments:				
Total fuel and electricity used .....	...	5,921	...	6,315

<sup>1</sup> The difference between figures in Table 10 and those in Table 7 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 7. See also "Concepts and Definitions" for explanation of other variances.



TABLE 12. Materials and Supplies - Manufacturing Activity, 1963 and 1964

Description		1963		1964	
		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Materials used:					
Rubber, natural <sup>1</sup> .....	lb.	80,313,550	22,664	93,622,710	23,694
Rubber, reclaimed <sup>1</sup> .....	"	42,625,639	5,310	40,365,872	4,817
Rubber, synthetic <sup>1</sup> .....	"	181,074,473	39,363	201,395,103	42,686
Rubber, scrap .....	"	19,859,534	1,001	23,516,096	897
Crude allied gums .....	"	30,619	77	37,938	73
Latex compounds .....	"	3,351,292	846	1,937,015	532
Tread rubber (camelback) .....	"	84,298	49	3,012,402	1,283
Rubber, other (including master batches, tubing, etc.) .....	"	"	714	"	741
Plastics, synthetic resins .....	lb.	22,977,941	4,743	25,282,546	5,284
Plastics, other .....	"	1,774,813	1,220	2,798,640	1,545
Tire fabrics, cotton .....	"	1,582,359	1,270	1,386,864	1,193
" " rayon .....	"	14,425,015	10,936	14,682,524	11,280
Tire fabrics, all other (nylon, etc.) .....	"	20,696,001	25,033	22,989,613	27,780
Hose fabrics .....	"	706,101	569	617,183	504
Belting duck .....	"	3,217,801	2,461	3,536,745	2,765
Belting fabrics, other .....	"	766,605	679	730,589	685
Holland cloth .....	"	125,225	106	89,175	105
Shoe fabrics, other than leather .....	"	864,983	891	511,420	559
Miscellaneous cottons .....	yd.	10,308,897	3,256	13,450,196	4,140
Other fabrics, n.e.s. ....	"	4,854,771	2,881	6,384,981	4,011
Yarns, cotton .....	lb.	337,714	340	392,534	363
" rayon, nylon, etc. ....	"	1,491,057	1,317	1,917,945	1,738
Felt .....	"	25,200	36	30,000	44
Jutex .....	"	337,195	85	272,040	68
Fur .....	yd.	966,998	240	"	255
Mutton shearling .....	lb.	174,185	143	180,000	144
Leather .....	"	455,519	603	411,530	567
Leather tops for boots .....	prs.	8,000	18	11,500	36
Carbon black .....	lb.	93,234,697	7,812	104,559,281	8,762
China clay .....	"	20,150,950	354	20,975,808	376
Other clays and earths .....	"	12,869,708	268	11,979,617	224
Mica, ground .....	"	586,058	59	636,185	65
Solvents .....	gal.	4,981,463	1,362	4,849,238	1,601
Fatty acids .....	lb.	9,008,250	466	9,534,574	547
Sulphur .....	"	6,414,983	468	6,644,455	495
Whiting .....	"	20,405,213	344	34,496,246	466
Litharge .....	"	232,977	292	291,257	417
Zinc oxide .....	"	10,990,922	1,388	12,569,578	1,676
Talc and soapstone .....	"	2,623,836	61	2,750,580	69
Barytes .....	"	631,900	28	604,563	26
Titanium dioxide .....	"	1,943,543	496	2,951,752	735
Accelerators, n.e.s. ....	"	3,987,881	2,330	4,335,272	2,669
Colouring agents, n.e.s. ....	"	1,264,919	492	1,352,461	570
Dispersing agents, n.e.s. ....	"	287,336	69	231,568	71
Plasticizers, n.e.s. ....	"	21,245,274	3,392	25,225,924	3,557
Anti-oxidants, n.e.s. ....	"	4,709,864	2,788	4,963,277	2,811
Fillers, n.e.s. ....	"	23,771,508	1,037	26,560,272	1,118
Other chemicals, n.e.s. ....	"	"	5,518	"	5,956
Oils .....	lb.	787,673	105	886,288	114
Wire .....	"	12,227,061	2,850	13,522,374	3,189
Hardware fittings (hose coupling, cocks, etc.) .....	"	"	1,755	"	1,793
Shoe findings, buckles, eyelets, etc. ....	"	"	1,422	"	1,590
Lacquers, etc. (dispersions of resins) .....	gal.	148,532	362	447,401	540
Rubber cement .....	"	142,258	247	171,674	312
Paints, varnishes, etc. ....	"	102,704	115	150,111	119
Thread for sewing .....	"	"	37	"	6
Hose jackets .....	"	"	130	"	109
All other materials and components used <sup>2</sup> .....	"	"	11,817	"	15,629
2. Containers and other packaging materials and supplies used .....					
		"	4,885	"	5,223
3. Operating, maintenance and repair supplies used (excluding fuel) .....					
		"	8,711	"	9,350
4. Amounts paid out to others for work done on materials owned by establishments .....					
		"	903	"	981
Totals .....		"	189,212	"	208,955

<sup>1</sup> For details of "Rubber used" see Table 15 to 19, inclusive.

<sup>2</sup> No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$2,547,481 in 1963 and \$3,622,778 in 1964.

TABLE 13. Shipments of Goods of Own Manufacture, 1963 and 1964

Description	Value	
	1963	1964
	\$'000	
Footwear .....	36,739	39,464
Tires .....	170,003	187,982
Tubes .....	8,515	8,583
Other .....	172,080	191,292
<b>Total shipments</b> .....	<b>387,337</b>	<b>427,321</b>
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	(607)	(698)
<b>Total shipments (adjusted)</b> .....	<b>386,730</b>	<b>426,624</b>

TABLE 13 A. Shipments of Footwear, 1963 and 1964

Kind	1963		1964	
	Quantity	Value	Quantity	Value
	pairs	\$'000	pairs	\$'000
Boots, all rubber:				
(a) Knee, thigh and hip .....	1,091,213	3,487	1,260,801	4,029
(b) Lumbermen's, etc. ....	235,061	1,111	236,775	1,177
Boots, rubber bottoms and leather tops:				
Lumbermen's, etc. ....	122,765	641	129,116	642
Bottoms for leather tops .....	159,661	346	154,005	270
Overshoes and golosbes:				
(a) Cloth uppers .....	1,224,511	4,749	854,883	3,761
(b) All rubber, lined and unlined .....	2,753,983	7,278	3,510,449	8,723
Light and heavy rubbers .....	3,017,766	3,769	2,857,453	3,605
Footwear, with canvas or other fabric tops:				
(a) Utility .....	3,274,613	5,204	4,056,794	6,709
(b) Casual .....	888,283	1,904	1,005,603	2,083
Bathing shoes .....	1	1	1	1
Plastic waterproof footwear, all types .....	2,476,503	3,796	2,056,252	3,965
Leather footwear .....	1	1	1	1
Other footwear .....	...	4,453	...	4,500
<b>Total footwear</b> .....	<b>17,327,536</b>	<b>36,739<sup>1</sup></b>	<b>18,300,474</b>	<b>39,464<sup>2</sup></b>

<sup>1</sup> Included in "Other footwear".

<sup>2</sup> See Table 13.

TABLE 13 B. Shipments of Tires, by Type, 1964

Type	Premium and first line	Second line	Third and fourth lines	Total	Value
	number				\$'000
Pneumatic tires (including tubeless):					
Passenger car all ply ratings .....	7,360,382	2,147,349	1,216,932	10,724,663	108,497
Truck and bus (including earth-mover, excavator, logger and grader):					
(a) Sizes smaller than 12.00-22:					
Highway .....	1,027,512	114,636	9,645	1,151,793	43,071
Off the road .....	131,972	7,423	—	139,395	10,545
(b) Sizes 12.00-22 and larger:					
Highway .....	1,372	—	—	1,372	89
Off the road .....	31,678	—	—	31,678	10,250
Tractor and implement .....	424,010	60,551	—	484,561	13,108
Boat trailer .....	109,510	—	—	109,510	707
Mobile home (trailer) .....					
Industrial, pneumatic and semi-pneumatic (including wheelbarrow) .....	316,463	406,833	—	723,296	1,204
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) .....	56,545	—	—	56,545	513
<b>Total tires</b> .....	<b>9,459,444</b>	<b>2,736,792</b>	<b>1,226,577</b>	<b>13,422,813</b>	<b>187,982<sup>1</sup></b>

<sup>1</sup> See Table 13.



TABLE 13 C. Shipments of Tubes, by Type, 1964

Type	First line	Second line	Total	Value
		number		\$'000
Passenger car .....	1,647,498	673,980	2,321,478	3,097
Truck and bus:				
(a) Sizes smaller than 12.00-22 .....	980,815	—	980,815	3,437
(b) Sizes 12.00-22 and larger .....	35,746	—	35,746	499
Tractor and implement .....	320,510	—	320,510	1,083
Boat trailer .....	1	—	1	1
Aeroplane, motorcycle and side car, bicycle, and tire tubes, n.e.s. ....	630,703	53,625	684,328	467
<b>Total tubes .....</b>	<b>3,615,272</b>	<b>727,605</b>	<b>4,342,877</b>	<b>8,583<sup>1</sup></b>

<sup>1</sup> Included with "Aeroplane, motorcycle and side car, etc."

<sup>2</sup> See Table 13.

TABLE 13 D. Shipments of Other Products, 1963 and 1964

Principal products		1963		1964	
		Quantity	Value	Quantity	Value
			\$'000		\$'000
Clothing (rubber, rubberized, etc.) .....	doz.	19,370	1,367	22,733	1,780
Fabrics (rubberized, plastic-coated, etc.) .....	sq. yd.	4,650,484	6,314	4,073,427	5,123
Artificial and imitation leather .....		1	1	1	1
Full and half soles:					
Rubber .....	pr.	6,847,461	2,710	1,859,789	687
Composition .....	"	940,374	391	3,072,943	1,426
Rubber and composition heels .....	"	11,936,680	2,042	10,329,372	1,485
Soling and toplifting sheets:					
Rubber .....	lb.	14,002,848	4,680	6,710,420	2,585
Composition .....	"			8,396,831	3,696
Belts and belting:					
Conveyor .....	lin. ft.	8,846,635	6,061	8,914,368	6,753
Transmission, flat type .....	lb.	1,442,610	1,360	1,493,934	
Transmission, V-type, automotive fan belts:					
Original equipment .....	No.	1,128,482	568	1,581,131	648
Replacement .....	"	1,702,230	1,654	1,689,339	1,576
Transmission, V-type:					
Fractional h.p. belts .....	"	1,975,471	1,045	2,112,793	1,081
Other belts:					
Multi-V .....	"	538,666	1,216	652,033	1,434
Agricultural .....	"	455,382	696	459,490	1,435
Rubber belts and belting, other .....	lb.	1,111,864	1,410	1,467,300	1,583
Hose and tubing:					
Garden hose, rubber .....	ft.	9,845,205	963	9,775,125	852
Automotive hose .....	"	7,463,614	1,656	7,906,725	1,521
Heavy industrial hose .....	"	8,030,319	6,353	11,052,675	8,105
Light industrial hose and tubing .....	"			17,146,628	3,689
Fire hose fabric jacket, rubber lined .....	"		4,711	968,968	657
Rubber tubing, all other .....	"			4,358,530	557
Plastic garden hose, other hose and flexible tubing .....			794		553
Plastic pipes, film and sheet and other extruded plastic products .....			3,746		2,602
Rubber packing, all kinds .....	lb.	3,622,539	1,939	4,398,322	2,522
Rubber supplies, such as washers, gaskets, etc. ....			3,686		4,753
Rubber thread, covered and not covered .....	lb.	1,063,688	1,847	1	1
Rubber and friction tape .....	"	3,049,932	2,466	3,219,685	2,657
Pressure sensitive tape, including cellulose .....		1	1	28,208,513	14,990
Printers rolls and other rubber rolls .....	No.	77,738	424	52,785	471
All other rubber rolls and coverings (including wringer rolls) .....			2,828		3,657
Rubber coverings and linings, for tanks, pipes, etc. ....	lb.	3,412,033	2,830	3,435,035	2,581
Rubber mats for automobiles .....	No.	1,603,522	3,744	1,709,206	3,981
Rubber link and strip door mats .....	sq. ft.	272,277	208	239,033	167
Roll Rubber matting .....	lb.			2,814,355	1,274
Rubber mats n.e.s. (including stair treads and risers) .....	"	4,528,405	1,049	2,081,230	452
Rubber sheet flooring and wainscoting .....		1	1	1	1
Rubber tiles .....		1	1	1	1
Rubber tires and tiring, for baby carriages, etc. ....	lb.	1,128,178	226	1,380,287	311

<sup>1</sup> Included with "All other products".

TABLE 13 D. Shipments of Other Products, 1963 and 1964 - Concluded

Principal products		1963		1964	
		Quantity	Value	Quantity	Value
			\$'000		\$'000
Repair gums and fabrics .....	lb.	988,127	795	974,282	663
Other unvulcanized gums .....	"	709,849	448	1,059,897	439
Tread rubber (Camelback) .....	"	16,755,258	5,515	20,249,703	7,008
Cured rubber, in slabs, including chute and launder lining .....	"	1	1	983,784	862
Rubber master batches or mixes, uncured .....	"	1,384,801	308	2,587,530	602
Hard rubber, in sheets, strips or rods .....	"	119,065	96	131,957	145
Rubber adhesives:					
Neoprene .....	gal.	26,301	61	33,541	80
Other (including natural rubber) .....	"	1,372,711	3,169	1,145,216	3,821
Tire and tube repair materials (patches, etc.) .....		...	1,148	...	1,169
Tube repair kits .....	No.	798,095	183	747,170	156
Rubber blankets, printers' etc. ....	lb.	358,666	369	455,373	473
Battery containers .....		...	4,067	1	1
Battery covers, vents, etc. ....		...	1	1	1
Channel rubber .....		1	1	1	1
Rubber automotive and aeroplane parts, n.e.s. ....	lb.	6,551,325	6,429	5,025,970	5,108
Druggists' and medical sundries (including rubber sheeting and rubberized sheets) .....		...	805	...	838
Gloves, rubber .....	doz. pr.	229,028	1,152	203,085	1,272
Gloves, rubberized and plastic coated fabric .....	"	27,067	174	20,866	167
Rubber jar rings .....		1	1	1	1
Weather stripping, all kinds:					
Rubber .....	lb.	...	3,776	7,933,376	4,090
Plastic .....	"	8,734,367	3,776	3,000,079	3,772
Sanitary goods, n.e.s. ....		...	159	...	134
Aprons, rubber, rubberized and plastic .....	doz.	4,662	107	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) .....		...	69	1	1
Hockey pucks .....		1	1	1	1
Ballons, toy .....	GROSS	389,274	689	467,072	750
Extruded rubber goods, n.e.s. ....		...	912	...	954
Moulded rubber goods, n.e.s. ....		...	6,367	...	6,881
Moulded plastics, n.e.s. ....		...	2,030	...	2,108
Other plastic products, n.e.s. (bags, covers, tapes, tiles, toys, folding doors, etc.) .....		...	7,946	1	1
Sponge and hard rubber mats, pads, cushions, etc. ....	lb.	216,320	141	96,318	186
Foamed latex .....	"	6,253,101	4,966	1	1
Rug underlay or cushioning .....	sq. ft.	1	1	3,227,788	3,723
Chemically blown rubber, sponge rubber and manufactures there of, n.e.s. ....	lb.	299,772	379	1	1
Latex compounds (natural and synthetic) .....	"	7,037,789	3,268	9,531,936	3,852
Dies and moulds .....	No.	1	1	1,021	128
All other products .....		...	43,152 <sup>1</sup>	...	50,501
Amount received in payment for work done on materials and products owned by others .....		...	2,415	...	2,173
<b>Total value of other products .....</b>		...	<b>172,080<sup>2</sup></b>	...	<b>191,292<sup>2</sup></b>

<sup>1</sup> Included with "All other products".

<sup>2</sup> See Table 13.

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1963 and 1964

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

Description		1963		1964	
		Quantity	Value	Quantity	Value
			\$'000		\$'000
Pressure-sensitive tapes:					
Plastic tape, all types .....	sq. yd.	8,570	5,232	7,928	6,504
Cloth tape, all types .....	"	1,511	1,504	3,629	2,916
Paper tape, all types .....	"	11,956	4,536	18,563	6,520
Rubber tiles .....	sq. ft.	6,570,812	1,519	5,696,790	1,426
Foamed latex and chemically blown rubber .....	lb.	6,552,873	5,345	6,269,075	4,620
Rug underlay and cushioning, all types .....		...	5,372	...	6,431



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, "Consumption, Production and Inventories of Rubber," Catalogue No. 33-003.

Tables 15 to 19 show a yearly summary of these data.

TABLE 15. Consumption of Synthetic Rubber, by Types, 1964

	S-Type		N-type	Stereo-regular	Butyl	Neoprene	Other	Total
	Solid	Latex						
	'000 lbs.							
Totals .....	147,408	8,711	1,588	20,685	13,457	10,589	1,133	203,571

TABLE 16. Consumption of Synthetic Rubber, in Total, by End Products, showing also Percentage of Synthetic to All Rubber Consumed, 1964

	Synthetic		Consumed in the manufacture of				
	Total	Percentage of all rubber	Tires and tubes <sup>1</sup>	Wire and cable	Footwear <sup>2</sup>	Foamed rubber	Other products
	'000 lbs.	%	'000 lbs.				
Totals .....	203,571	60.6	143,579	8,053	5,978	4,438	41,523

<sup>1</sup> Includes "Tire repair materials".

<sup>2</sup> Includes "Heels, soles, etc.".

TABLE 17. Consumption of Natural Rubber in Total, by End Products, showing also Percentage of Natural to all Rubber Consumed, 1964

	Natural		Consumed in the manufacture of				
	Total	Percentage of all rubber	Tires and tubes <sup>1</sup>	Wire and cable	Footwear <sup>2</sup>	Foamed rubber	Other products
	'000 lbs.	%	'000 lbs.				
Totals .....	90,063	26.8	64,070	495	6,805	1,169	17,524

<sup>1</sup> Includes "Tire repair materials".

<sup>2</sup> Includes "Heels, soles, etc.".

TABLE 18. Consumption of Reclaimed Rubber in Total, by End Products, showing also Percentage of Reclaimed to All Rubber Consumed, 1964

	Reclaimed		Consumed in the manufacture of				
	Total	Percentage of all rubber	Tires and tubes <sup>1</sup>	Wire and cable	Footwear <sup>2</sup>	Foamed rubber	Other products
	'000 lbs.	%	'000 lbs.				
Totals .....	42,343	12.6	28,679	46	710	-	12,908

<sup>1</sup> Includes "Tire repair materials".

<sup>2</sup> Includes "Heels, soles, etc.".

TABLE 19. Consumption of All Rubber, by Main Types and by End Products Classification, 1964

End products	Natural	Synthetic	Reclaimed	Total all rubber
	'000 lbs.			
Tires, tubes and tire repair materials.....	64,070	143,579	28,679	236,328
Wire and cable.....	495	8,053	46	8,594
Footwear (Including heels, soles, etc.).....	6,805	5,978	710	13,493
Foamed rubber.....	1,169	4,438	—	5,607
Other products.....	17,524	41,523	12,908	71,955
Totals.....	90,063	203,571	42,343	335,977

TABLE 20. Principal Statistics classified by Industry Sub-group, 1962-64

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:													
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
1964 .....	6	4,098	8,614	12,970	401	16,865	42,540	26,307	—	—	4,938	16,988	27,181
Tire and tube manufacturers:													
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	98,521
1964 .....	11	6,665	14,653	36,965	3,193	122,393	225,728	104,395	—	—	8,520	48,491	106,955
Other rubber industries:													
1962 .....	74	5,771	12,780	23,803	2,327	55,061	130,614	73,119	9	31	7,935	36,448	73,146
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

List of Establishments classified to This Industry, 1964

(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
America Bilrite Rubber Co. (Canada) Ltd.....	255 Jencks 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 Lastex 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
Goodyear Tire & Rubber Co. of Canada Ltd.....	455 Côte Vertu Road, St-Laurent, Montreal 9.....	C
Cat's Paw Hultite Rubber Co. of Canada Ltd.....	Lindsay St., Drummondville.....	C
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) .....	1830 Notre-Dame St. E., Montreal.....	C
Dura Undercushions Ltd.....	8525 Delmeade Rd., Montreal 9.....	C
Franco Plastic Extrusions .....	10521 Heneault St., Montreal North .....	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 Taillon St., Quebec .....	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
Mi-Mail Ltd.....	191 Denton Ave., Granby .....	A
Precision Rubber Products (Canada) Ltd. ....	156 Turgeon St., Ste-Thérèse-de-Blainville .....	C
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



List of Establishments classified to This Industry, 1964 - Concluded

Name	Location	Industry
<b>Ontario:</b>		
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
Blitrite 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	C
Canadian Collord Products Ltd.	985 St. Luke Road, Windsor	C
Canadian Vapored Ltd.	40 John St., Thorold	B
Clarke Roller & Rubber Ltd.	11 Newbridge St., Toronto 18	C
Cloudfoam Ltd.	284 Fairall St., Ajax	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
Feather Industries Ltd.	115 Glen Scarlett Rd., Toronto 9	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
Firestone Tires Rubber Co. of Canada Ltd. (Re-tread Shop)	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
General Tire & Rubber Co. of Canada Limited (Industrial Products Division)	John & Barnard Sts., Welland	C
Goodrich, B.F. Canada Limited	521 King 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
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 Rubber Company Ltd.	410 King St. W., Kitchener	A
Latex Compounding Company	370 Bering Ave., Toronto 18	C
Mansfield - Denman General Limited	220 John St., Barrie	B
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
Press-Seal Corp. of Canada Ltd.	245 Strassburg Rd., Kitchener	C
Rubbermaid (Canada) Ltd.	2531 Stanfield Rd., Cooksville	C
Rulflex Limited	277 Houghton Ave. S., Hamilton	C
Satherling 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
<b>Manitoba:</b>		
Shur-Foot Mat Company	221 Flora Ave., Winnipeg 4	C
Stearns Automotive Products Ltd.	92 Gomez St., Winnipeg 2	C
<b>Alberta:</b>		
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.	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
<b>British Columbia:</b>		
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
Reliable Mat Mfg. Company	3340 Findlay St., Vancouver 12	C
Seaway Fenders Ltd.	261 No. 7 Road, R.R.#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 56 (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 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 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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