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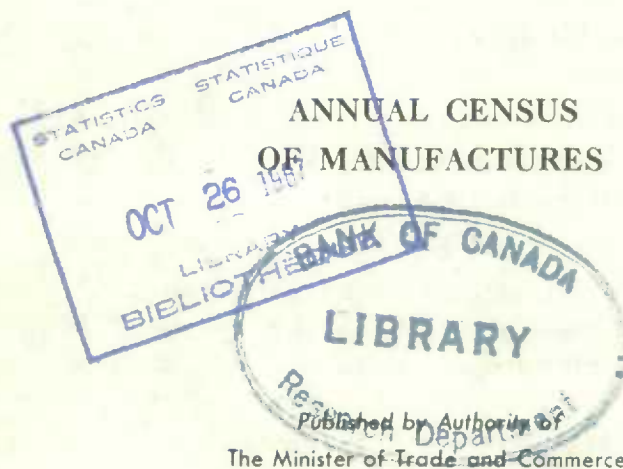
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CANADA

# PLASTICS FABRICATORS, N.E.S.

1964



DOMINION BUREAU OF STATISTICS

Industry Division

November 1966  
6506-630

Price: 50 cents

## PUBLICATIONS

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## CATALOGUE No.

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ANNUAL

Plastic Fabricators, n.e.s.

1964

ERRATAPage 12, Table 13

Shipments of goods of own manufacture:

Tile floor and wall, etc.

	1963		1964
	Quantity	Value	Quantity
	sq. ft.	\$'000	sq. ft.
Reads .....	6,578,170	1,257	4,797,466
Should read .....	4,530,522	837	4,687,466

Page 13, Table 13

Shipments of goods of own manufacture:

Amount received in payment for work done on materials and products owned by others

	1963
	Value
	\$'000
Reads .....	1,829
Should read .....	2,249

## PLASTICS FABRICATORS, N.E.S.

1964

In terms of the Standard Industrial Classification and the New Establishment Concept, this industry is defined as comprising those "Establishments primarily engaged in moulding, extruding and fabricating special plastic parts for automobiles, radios, toys, and other articles for the trade. Establishments primarily engaged in making plastic articles which cannot be classified conveniently elsewhere are also included". However, "Establishments primarily engaged in manufacturing plastic articles such as toys, buttons, tooth brushes or any other article for which provision is made elsewhere in the classification are classified to the appropriate industry".

It is important to note that this industry only includes those fabricators that manufacture from plastics the kind of products not found elsewhere in the classification scheme. For example, women's raincoats (including those of plastic) are classified to the women's factory clothing industry, and establishments producing women's plastic raincoats as a principal product would be included with this industry. Similarly, manufactures of plastic toys would be classified to the toy industry and those of plastic handbags to the miscellaneous leather industry where the commodity "handbags" is to be found. Some production of these commodities will, of course, be found in this industry under review where they are produced, as secondary or minor products, by the establishments assigned to the industry on the basis of their more important items of manufacture. Shipments by all domestic industries of commodities normally made of plastic may be found in the Bureau's report entitled "Products Shipped by Canadian Manufacturers", Catalogue No. 31-211.

In 1964 there were 354 establishments classified to this industry as opposed to 299 in the previous year. Tables 12 and 13, respectively, of this report, show in detail the materials and supplies used in manufacturing and the shipments of goods of own manufacture. Table 14 presents the 1963 and 1964 shipments of plastic pipe, plastic foam, and the results of special studies covering certain plastic basic shapes and forms, by all industries.

A list of the establishments classified to the industry in the 1964 survey will be found at the end of this report.

### 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 .....	277	5,797	12,158	17,286	1,428	58,017	108,992	50,022	68	242	7,973	27,683	51,283
1962													
Totals .....	295	6,439	13,715	20,077	1,638	69,091	128,947	59,779	68	279	8,527	30,943	60,668
1963													
Newfoundland .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	2	x	x	x	x	x	x	x	x	x	x	x	x
New Brunswick .....	4	10	21	25	6	64	100	43	—	—	18	45	62
Quebec .....	84	2,264	5,075	7,147	649	24,909	47,408	21,826	13	52	2,918	10,778	21,960
Ontario .....	156	4,603	9,663	14,765	1,152	45,211	88,866	43,577	32	140	5,860	22,253	44,012
Manitoba .....	12	79	166	268	27	1,356	2,363	997	—	—	108	385	1,008
Saskatchewan .....	2	x	x	x	x	x	x	x	x	x	x	x	x
Alberta .....	17	92	198	316	39	1,038	2,253	1,213	3	8	135	478	1,228
British Columbia .....	22	189	395	672	71	2,070	3,909	1,699	3	19	257	995	1,788
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	299	7,273	15,588	23,292	1,958	74,879	145,358	69,572	51	219	9,345	35,083	70,347
1964													
Newfoundland .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	1	x	x	x	x	x	x	x	—	—	x	x	x
New Brunswick .....	6	15	31	42	5	97	183	83	—	—	22	60	82
Quebec .....	94	2,431	5,455	8,166	728	27,963	56,105	27,439	13	56	3,117	12,288	27,444
Ontario .....	194	5,283	11,138	17,982	1,461	54,229	106,567	52,353	36	156	6,733	26,680	53,274
Manitoba .....	14	77	166	282	27	1,439	2,540	1,062	4	12	100	390	1,061
Saskatchewan .....	4	x	x	x	x	x	x	x	—	—	x	x	x
Alberta .....	18	100	211	335	40	1,164	2,233	1,055	x	x	149	525	1,057
British Columbia .....	23	239	497	885	94	2,377	4,964	2,558	x	x	321	1,348	2,750
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	354	8,180	17,566	27,783	2,368	87,662	173,143	84,722	57	241	10,493	41,444	85,939

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	
1963													
Under \$10,000 .....	16	9	16	19	2	36	96	59	10	21	13	26	58
\$ 10,000 to \$ 24,999 .....	28	35	69	85	11	218	477	275	13	47	49	132	277
25,000 " 49,999 .....	40	130	279	369	33	641	1,543	898	12	52	168	531	996
50,000 " 99,999 .....	39	181	395	521	49	1,285	2,676	1,369	11	68	249	830	1,372
100,000 " 199,999 .....	46	483	1,018	1,470	133	3,197	6,418	3,324	3	19	650	2,268	3,537
200,000 " 499,999 .....	55	1,181	2,455	3,209	293	8,314	17,181	8,867	2	12	1,445	4,693	9,225
500,000 " 999,999 .....	31	1,360	2,901	4,119	309	10,917	22,652	11,292	—	—	1,696	6,251	11,602
1,000,000 " 4,999,999 .....	41	3,187	6,903	10,472	868	39,596	71,989	32,198	—	—	4,012	15,242	32,073
5,000,000 and over .....	3	707	1,551	3,028	260	10,673	22,324	11,290	—	—	1,055	5,049	11,214
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	8	62	(7)
Totals .....	299	7,273	15,588	23,292	1,958	74,879	145,358	69,572	51	219	9,345	35,083	70,347
1964													
Under \$10,000 .....	22	10	19	26	5	66	116	83	15	27	15	38	81
\$ 10,000 to \$ 24,999 .....	33	51	103	138	5	245	581	359	13	51	68	186	361
25,000 " 49,999 .....	48	146	299	404	36	742	1,781	1,047	13	82	198	617	1,134
50,000 " 99,999 .....	50	234	509	697	73	1,801	3,614	1,792	12	57	329	1,123	1,863
100,000 " 199,999 .....	52	462	989	1,503	128	3,566	7,312	3,776	2	16	622	2,264	3,898
200,000 " 499,999 .....	64	1,385	2,864	4,097	337	10,044	21,270	10,960	2	8	1,704	6,018	11,272
500,000 " 999,999 .....	39	1,729	3,702	5,431	451	13,874	29,129	15,366	—	—	2,135	8,117	16,025
1,000,000 " 4,999,999 .....	43	3,411	7,437	12,094	1,044	44,999	82,664	37,264	—	—	4,297	17,536	37,289
5,000,000 and over .....	3	752	1,643	3,393	289	12,326	26,677	14,076	—	—	1,122	5,532	14,018
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	3	14	(2)
Totals .....	354	8,180	17,566	27,783	2,368	87,662	173,143	84,722	57	241	10,493	41,444	85,939

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	
1963													
Under \$10,000 .....	36	54	112	141	14	493	682	189	17	37	71	190	190
\$ 10,000 to \$ 24,999 .....	44	110	234	314	33	717	1,504	764	15	76	153	497	801
25,000 " 49,999 .....	49	242	514	695	77	1,991	3,638	1,670	15	81	338	1,141	1,702
50,000 " 99,999 .....	42	378	805	1,163	111	3,574	6,550	3,037	2	13	511	1,806	3,265
100,000 " 199,999 .....	40	954	1,938	2,358	194	5,568	11,654	5,931	2	12	1,149	3,319	6,132
200,000 " 499,999 .....	47	1,806	3,883	5,653	487	17,425	32,451	14,784	—	—	2,236	8,391	14,915
500,000 " 999,999 .....	26	1,781	3,786	5,454	386	18,719	34,981	16,358	—	—	2,203	8,072	16,547
1,000,000 " 4,999,999 .....	15	1,948	4,317	7,513	857	26,391	53,896	26,840	—	—	2,676	11,605	26,802
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	8	82	(7)
Totals .....	299	7,273	15,588	23,292	1,958	74,879	145,358	69,572	51	219	9,345	35,083	70,347
1964													
Under \$10,000 .....	37	28	55	66	8	199	384	187	21	44	40	98	196
\$ 10,000 to \$ 24,999 .....	52	125	260	356	31	780	1,565	828	17	88	169	536	932
25,000 " 49,999 .....	65	314	668	937	80	2,238	4,552	2,243	11	70	444	1,514	2,303
50,000 " 99,999 .....	53	459	996	1,488	156	4,103	7,842	3,743	8	39	625	2,218	3,930
100,000 " 199,999 .....	45	851	1,717	2,366	200	6,523	13,166	6,467	—	—	1,062	3,581	6,838
200,000 " 499,999 .....	53	1,948	4,138	6,229	499	17,738	34,931	17,142	—	—	2,404	9,210	17,414
500,000 " 999,999 .....	34	2,395	5,119	7,992	650	26,872	50,368	23,079	—	—	2,955	11,739	23,226
1,000,000 " 4,999,999 .....	15	2,060	4,612	8,349	744	29,210	60,336	31,033	—	—	2,791	12,536	31,103
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	3	14	(2)
Totals .....	354	8,180	17,566	27,783	2,368	87,662	173,143	84,722	57	241	10,493	41,444	85,939



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 .....	37	81	172	219	21	588	794	223	17	37	119	396	199
\$ 10,000 to \$ 24,999 .....	42	104	221	299	31	680	1,430	728	15	76	144	469	728
25,000 " 49,999 .....	48	206	430	592	69	1,916	3,505	1,596	15	81	281	905	1,639
50,000 " 99,999 .....	39	346	745	1,040	95	3,216	5,874	2,728	—	—	456	1,592	2,802
100,000 " 199,999 .....	44	943	1,940	2,428	206	5,671	11,963	6,164	4	25	1,153	3,463	6,377
200,000 " 499,999 .....	47	1,781	3,776	5,445	463	17,110	31,823	14,437	—	—	2,211	8,164	14,752
500,000 " 999,999 .....	27	1,864	3,988	5,757	417	19,307	36,072	16,856	—	—	2,297	8,427	17,055
1,000,000 " 4,999,999 .....	15	1,948	4,317	7,513	657	26,391	53,896	26,840	—	—	2,676	11,605	26,802
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	8	62	(7)
<b>Totals</b> .....	<b>299</b>	<b>7,273</b>	<b>15,588</b>	<b>23,292</b>	<b>1,958</b>	<b>74,879</b>	<b>145,358</b>	<b>69,572</b>	<b>51</b>	<b>219</b>	<b>9,345</b>	<b>33,083</b>	<b>70,347</b>
<b>1964</b>													
Under \$10,000 .....	37	29	56	75	9	220	385	196	20	41	43	111	186
\$ 10,000 to \$ 24,999 .....	49	105	218	296	25	681	1,432	765	18	92	135	420	765
25,000 " 49,999 .....	63	311	667	919	80	2,099	4,291	2,131	11	70	436	1,483	2,154
50,000 " 99,999 .....	55	459	995	1,491	153	4,077	7,821	3,735	6	23	620	2,199	3,875
100,000 " 199,999 .....	44	817	1,646	2,253	197	6,165	12,321	5,992	2	16	994	3,245	6,232
200,000 " 499,999 .....	56	1,896	4,055	6,155	494	17,991	35,419	17,324	—	—	2,392	9,376	17,860
500,000 " 999,999 .....	35	2,503	5,317	8,245	667	27,219	51,138	23,547	—	—	3,079	12,060	23,766
1,000,000 " 4,999,999 .....	15	2,060	4,612	8,349	744	29,210	60,336	31,033	—	—	2,791	12,536	31,103
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	3	14	(2)
<b>Totals</b> .....	<b>354</b>	<b>8,180</b>	<b>17,566</b>	<b>27,783</b>	<b>2,368</b>	<b>87,662</b>	<b>173,143</b>	<b>84,722</b>	<b>57</b>	<b>241</b>	<b>10,493</b>	<b>41,444</b>	<b>85,939</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 .....	71	97	201	292	31	918	1,909	989	30	119	124	407	1,014
5- 14 employed .....	91	521	1,130	1,632	191	4,864	9,898	5,110	21	100	715	2,564	5,273
15- 49 " .....	82	1,811	3,853	5,635	500	20,637	38,152	17,340	—	—	2,342	8,744	17,880
50- 99 " .....	34	2,042	4,445	6,076	523	20,450	36,965	16,446	—	—	2,452	8,597	16,566
100-199 " .....	16	1,750	3,652	5,609	391	15,564	32,140	16,222	—	—	2,231	8,351	16,279
200-499 " .....	5	1,052	2,308	4,047	322	12,445	26,293	13,466	—	—	1,473	6,360	13,342
500 employed and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	8	62	(7)
<b>Totals</b> .....	<b>299</b>	<b>7,273</b>	<b>15,588</b>	<b>23,292</b>	<b>1,958</b>	<b>74,879</b>	<b>145,358</b>	<b>69,572</b>	<b>51</b>	<b>219</b>	<b>9,345</b>	<b>33,083</b>	<b>70,347</b>
<b>1964</b>													
Under 5 employed .....	96	127	259	391	40	1,321	2,711	1,433	42	162	177	593	1,458
5- 14 employed .....	105	622	1,352	1,951	193	5,642	11,399	5,629	15	79	861	3,057	5,808
15- 49 " .....	92	2,087	4,429	6,913	604	24,687	45,545	20,580	—	—	2,688	10,627	21,204
50- 99 " .....	34	1,997	4,269	6,188	493	18,375	37,203	18,646	—	—	2,409	9,031	18,792
100-199 " .....	23	2,395	5,095	8,231	703	24,246	47,135	22,934	—	—	3,003	11,739	23,243
200-499 " .....	4	952	2,162	4,107	334	13,390	29,150	15,499	—	—	1,352	6,382	15,436
500 employed and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	3	14	(2)
<b>Totals</b> .....	<b>354</b>	<b>8,180</b>	<b>17,566</b>	<b>27,783</b>	<b>2,368</b>	<b>87,662</b>	<b>173,143</b>	<b>84,722</b>	<b>57</b>	<b>241</b>	<b>10,493</b>	<b>41,444</b>	<b>85,939</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 .....	41	108	220	314	24	1,102	2,117	1,026	39	167	124	385	1,029
Partnerships .....	6	22	51	66	17	211	543	316	12	52	25	78	351
Incorporated companies .....	252	7,143	15,317	22,911	1,917	73,565	142,698	68,230	...	...	9,188	34,559	68,975
Co-operatives .....													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	8	62	(7)
<b>Totals .....</b>	<b>299</b>	<b>7,273</b>	<b>15,588</b>	<b>23,292</b>	<b>1,958</b>	<b>74,879</b>	<b>145,358</b>	<b>69,572</b>	<b>51</b>	<b>219</b>	<b>9,345</b>	<b>35,083</b>	<b>70,347</b>
<b>1964</b>													
Individual ownerships .....	41	65	133	168	21	443	1,050	582	41	175	73	191	584
Partnerships .....	8	21	45	66	5	307	653	321	16	66	24	78	358
Incorporated companies .....	305	8,094	17,388	27,549	2,342	86,912	171,440	83,819	...	...	10,393	41,161	84,999
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	3	14	(2)
<b>Totals .....</b>	<b>354</b>	<b>8,180</b>	<b>17,566</b>	<b>27,783</b>	<b>2,368</b>	<b>87,662</b>	<b>173,143</b>	<b>84,722</b>	<b>57</b>	<b>241</b>	<b>10,493</b>	<b>41,444</b>	<b>85,939</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 .....	145,358	173,143	7,925	9,969	153,283	183,112
Inventories - Goods of own manufacture:						
Add closing - Goods in process .....	3,107	3,251	...	...	3,107	3,251
Finished goods .....	9,021	10,589	...	...	9,021	10,589
Deduct opening - Goods in process .....	3,092	2,920	...	...	3,092	2,920
Finished goods .....	7,985	9,311	...	...	7,985	9,311
2. Net inventory change .....	1,051	1,609	...	...	1,051	1,609
3. Gross output (1 + 2) .....	146,409	174,752	7,925	9,969	154,334	184,721
<b>Input</b>						
4. Purchases of goods not of own manufacture .....	...	...	6,118	7,901	6,118	7,901
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	869	825	869	825
Deduct closing .....	...	...	808	1,081	808	1,081
5. Cost of goods sold (not of own manufacture) .....	...	...	6,179	7,645	6,179	7,645
6. Materials, supplies, etc. ....	74,879	87,662	972	1,109	75,851	88,771
7. Fuel and electricity .....	1,958	2,368	...	...	1,958	2,368
8. Gross input (5 + 6 + 7) .....	76,837	90,030	7,151	8,754	83,988	98,784
<b>Value added (3 - 8) .....</b>	<b>69,572</b>	<b>84,722</b>	<b>774</b>	<b>1,215</b>	<b>70,347</b>	<b>85,939</b>

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- istra- tive and office	Sales and distrib- ution	Total
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other			
	number										\$'000				
1963															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
New Brunswick .....	9	1	-	-	5	2	1	-	15	3	25	-	17	3	45
Quebec .....	1,643	621	8	10	376	133	115	12	2,142	776	7,147	50	2,833	748	10,778
Ontario .....	2,587	2,016	-	1	664	361	204	27	3,455	2,405	14,765	1	5,833	1,653	22,253
Manitoba .....	59	20	-	-	22	7	-	-	81	27	268	-	117	-	385
Saskatchewan .....	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Alberta .....	68	24	-	-	26	11	6	-	100	35	316	-	124	38	478
British Columbia .....	124	65	-	-	33	18	14	3	171	86	672	-	238	85	995
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	4,525	2,748	8	11	1,134	537	340	42	6,007	3,338	23,292	52	9,213	2,527	35,083
1964															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	x	-	-	-	x	x	x	x	x	x	x	-	x	x	x
New Brunswick .....	14	1	-	-	5	2	-	-	19	3	42	-	19	-	60
Quebec .....	1,769	662	11	1	384	152	124	14	2,288	829	8,166	57	3,146	919	12,288
Ontario .....	3,047	2,236	6	-	731	417	260	36	4,044	2,689	17,982	40	6,614	2,044	26,680
Manitoba .....	58	19	-	-	15	6	2	-	75	25	282	-	94	13	390
Saskatchewan .....	x	-	-	-	x	x	x	x	x	x	x	-	x	x	x
Alberta .....	68	32	2	-	29	11	7	-	106	43	335	6	149	35	525
British Columbia .....	162	77	-	-	42	17	21	2	225	96	885	-	355	109	1,348
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	5,153	3,027	19	1	1,215	608	416	54	6,803	3,690	27,783	103	10,426	3,132	41,444

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 .....	3,716	2,121	4,457	2,697
February .....	3,846	2,205	4,584	2,818
March .....	3,932	2,295	4,670	2,908
April .....	3,890	2,266	4,727	2,878
May .....	4,009	2,332	4,764	2,883
June .....	4,131	2,413	4,991	2,969
July .....	4,090	2,367	5,036	2,940
August .....	4,187	2,400	5,142	3,031
September .....	4,148	2,461	5,074	3,097
October .....	4,125	2,509	5,025	3,074
November .....	4,137	2,466	5,054	2,990
December .....	4,020	2,254	5,057	2,853
Averages .....	4,020	2,344	4,889	2,932
Establishments reporting annual averages (small establishments only) .....	168	66	264	95
Average for all establishments .....	4,525	2,748	5,153	3,027

Note: There were 337 male and 338 female employees in 1963 that were collected from medium size establishments. These employees are not included in Table 9 but are included in Table 8.

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 .....	x	—	x	x	x	x
New Brunswick .....	37	2	19	59	—	59
Quebec .....	3,841	931	3,273	8,045	71	8,117
Ontario .....	6,382	1,863	5,539	13,784	654	14,438
Manitoba .....	85	65	44	193	—	193
Saskatchewan .....	x	—	x	x	x	x
Alberta .....	135	11	209	356	4	360
British Columbia .....	205	48	184	437	73	510
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	10,751	2,920	9,311	22,982	825	23,806
Closing:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	x	—	x	x	x	x
New Brunswick .....	27	5	19	51	1	52
Quebec .....	4,259	994	3,236	8,489	197	8,686
Ontario .....	7,205	2,106	6,773	16,084	737	16,821
Manitoba .....	106	51	46	203	—	203
Saskatchewan .....	x	—	x	x	x	x
Alberta .....	158	16	230	405	2	406
British Columbia .....	241	79	218	538	115	653
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	12,086	3,251	10,589	25,927	1,081	27,008

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	1,814	26	1,834
(b) Imported .....	"	5,848	79	6,228
Sub-bituminous coal (from Alberta mines only) .....	"	—	—	—
Anthracite coal .....	"	—	—	165
Lignite coal .....	"	640	3	—
Coke .....	"	—	—	—
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	201,887	80	268,647
Fuel oil including kerosene or coal oil .....	"	2,623,778	240	2,820,808
Wood .....	cord	50	—	50
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	40,930	11	39,280
(b) Other manufactured gas .....	M cu. ft.	3,993 <sup>f</sup>	3	—
(c) Natural gas .....	"	317,215	172	282,694
Other fuel .....	...	...	1	...
Electricity purchased .....	kwh.	95,042,043	1,069	119,117,765
Steam purchased .....	...	...	69	...
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	75	...	82
3. All establishments:				
Total fuel and electricity used .....	...	1,958	...	2,368

Note: There was \$129,000 in 1963 of fuel and electricity collected from medium size establishments. This amount is not included in the above table, but is included in the totals.



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

Description	1963				1964			
	Quantity			Cost	Quantity			Cost
	Moulding powders and compounds	Liquids	Rods, bars, sheeting etc.		Moulding powders and compounds	Liquids	Rods, bars, sheeting etc.	
	pounds			\$'000	pounds			\$'000
1. Materials used: .....								
Synthetic resins:								
Phenol-aldehyde types:								
(a) Phenol-formaldehyde .....	3,623,441	3,104,674	70,357	1,449	4,015,470	3,183,729	280,849	1,732
(b) Other .....	7,131	3,060	10,000	11	39,997	-	45,064	56
Amino-aldehyde types:								
(a) Urea-formaldehyde .....	1,276,136	1,755	-	392	1,336,627	-	-	383
(b) Melamine-formaldehyde .....	3,540,398	-	-	1,541	2,262,712	2,125,600	-	1,476
Epoxies .....	5	25,870	9,000	24	1,314	57,836	-	42
Alkyd types:								
Polyesters .....	1,861,072 <sup>r</sup>	2,206,564	364,529 <sup>r</sup>	1,531 <sup>r</sup>	974,191	3,099,949	320,094	1,500
Polyamide types:								
(a) Nylon .....	573,379	-	2,500	553	767,676	-	17,731	786
(b) Other .....	59,198	86	500	45	5,575	500	1,000	12
Styrene types:								
(a) Polystyrene .....	30,803,695	220,315	958,986	8,136	38,518,641	270,412	2,476,989	9,604
(b) Other .....	2,137,019	56,686	923	886	2,012,389	67,984	153,053	785
Vinyl types:								
(a) Vinyl acetate .....	143,465	-	116,182	155	92,065	-	479,540	319
(b) Vinyl chloride .....	10,474,841	101,731	3,388,682	3,880	14,072,833	95,840	4,369,183	4,961
(c) Other .....	287,782	5,385	511,809	351	274,711	-	460,048	311
Polyethylene types .....	60,191,611 <sup>r</sup>	-	228,190	15,872 <sup>r</sup>	76,773,193	-	1,756,770	18,505
Acrylic types .....	1,040,655	140,402	550,804	1,090	953,184	527,775	535,319	1,107
Acrylonitrile-butadiene-styrene (ABS) .....	565,974	-	1,948	276	1,939,540	-	76,210	941
Other synthetic resin types .....	1,400,309 <sup>r</sup>	4,179,565 <sup>r</sup>	441,735	2,341 <sup>r</sup>	2,596,386	4,837,741	423,008	2,544
Cellulose plastics:								
Cellulose acetate .....	854,177	-	434,404	819	571,567	-	629,902	807
Cellulose acetate butyrate .....	523,775	-	48,004	362	499,519	-	122,565	411
Ethyl cellulose .....	8,370	-	4,678	11	8,576	-	2,074	9
Cellulose film ("cellophane", etc.) .....	21,875	7,259	212,656	198	9,895	7,718	190,352	161
Other cellulose plastics .....	1,068	-	-	1	35,449	-	-	24
Other Plastics .....	1,299,145	371,217	4,562,115 <sup>r</sup>	4,980 <sup>r</sup>	798,560	107,846	4,004,758	6,116
Other materials:								
Cotton fabrics .....	-	-	-	1,807	-	-	-	2,010
Other fabrics .....	-	-	-	934	-	-	-	612
Fibre glass .....	-	-	-	731	-	-	-	976
Paper .....	-	-	-	4,208	-	-	-	5,291
Rubber .....	-	-	-	159	-	-	-	127
Metals .....	-	-	-	1,348	-	-	-	1,495
Paints, lacquers, pigments, etc. ....	-	-	-	681	-	-	-	925
All other materials and components used <sup>1</sup> .....	...	...	...	12,486	...	...	...	14,992
2. Containers and other packaging materials and supplies used .....	...	...	...	3,390	...	...	...	3,831
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	...	...	3,469	...	...	...	4,072
4. Amount paid out to others for work done on materials owned by establishments .....	...	...	...	764	...	...	...	739
Totals .....	...	...	...	74,879	...	...	...	87,662

<sup>1</sup> No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$2,141,464 in 1963 and \$2,521,611 in 1964.



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

Description	1963		1964	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
<b>1. Products:</b>				
Basic plastic shapes and forms:				
Film and sheet, unsupported (including "layflat" tubing).....	...	15,808	...	20,688
Sheet, reinforced (including low-pressure laminates).....	...	4,879	...	1
Film and sheet, n.e.s. ....	...	1,750	...	956
Angles, channels, rods, tees and similar shapes .....	...	1,266	...	1,866
Pipes, tubes, rigid and semi-rigid tubing (excluding hoses and "layflat" tubing) .....	...	3,802	...	5,499
Hoses and flexible tubing (excluding "layflat" tubing and garden hose).....	...	383	...	203
High-pressure laminated plastics, all types.....	...	20,422	...	23,544
Basic shapes and forms, n.e.s. (Including bars, blocks, foam, and screening) .....	...	11,304	...	16,474
Totals.....	...	59,614	...	69,230
Plastic household equipment and accessories:				
Awnings.....	...	2	...	2
Bags, plastic film, beach, diaper, knitting, shoe and shopping .....	...	186	...	230
" " , n.e.s. (clothing, cosmetic, dry cleaning, garment storage, laundry, etc.) .....	...	299	...	2
Clothesline and accessories.....	...	2	...	2
Containers, food (other than bags).....	...	2,560	...	4,751
Covers, film, furniture..... doz. 10,870	23	...	...	...
Covers, film, food, and other, n.e.s. ....	61,979	184	314,317	174
Cups, disposable..... gross 1,957,943	2,480	2,846,005	3,320	...
Curtains and drapes (including shower) .....	...	2,594	...	2,824
Dinnerware and table dishes .....	...	615	...	401
Flatware..... doz. 205,390	147	317,790	238	...
Flower pots..... doz. 50,650	9	39,068	19	...
Fly-swatters.....	...	791	...	722
Furniture, furniture gldes, and other furniture accessories .....	...	657	...	748
Handles and knobs..... doz. 338,944	322	319,000	406	...
Hangers, garment.....	...	502	...	537
Hose, garden, and hose couplings .....	...	4,622	...	4,860
Kitchenware..... No. ...	...	791,124	2,240	...
Seats, toilet.....	...	2	...	2
Seats, toilet-training .....	...	2	...	2
Tablecloths (table covers) .....	sq.ft. 6,578,170	1,257	4,797,466	860
Tile, floor and wall, etc. ....	...	73	...	...
Trays.....	...	6,498	...	5,537
Household equipment and accessories, n.e.s. (including drop-sheets) .....	...	23,819	...	27,864
Totals.....	...	23,819	...	27,864
Plastic clothing and personal equipment:				
Aprons.....	...	2	...	2
Bibs.....	...	2	...	2
Brushes and brush parts .....	...	433	...	594
Buttons.....	...	2	...	2
Combs..... doz. 1,829,597	833	2,884,923	904	...
Barrettes..... } ...	1,465	298,303	205	...
Hair-dressing accessories, n.e.s. ....	...	...	1,449	...
Pants, babies..... doz. 879,518	1,676	853,726	1,674	...
Rainwear.....	...	2	...	2
Sunglasses, complete.....	...	2	...	2
Clothing and personal equipment, n.e.s. (jewellery, knitting needles, purses, wallets and billfolds, etc.).....	...	3,204	...	3,927
Totals.....	...	7,611	...	8,753
Miscellaneous plastic products:				
Accessories and parts:				
Aircraft.....	...	4	...	4
Automobile.....	...	3,167	...	4,315
Dies, moulds and jigs .....	...	374	...	351
Electrical.....	...	1,977	...	2,639
Industrial, miscellaneous .....	...	4,173	...	4,693
Plumbing.....	...	464	...	582
Radio, telephone and television.....	...	1,136	...	1,304
Refrigeration.....	...	2,068	...	1,792
Accessories and parts, n.e.s. ....	...	1,985	...	2,335
Bottles.....	...	7,710	...	10,000
Boxes, hosiery, jewellery, millinery, and other .....	...	517	...	493
Caps and closures, bottle.....	...	2	...	2,415
Cases, clock.....	...	65	...	95
" , luggage.....	...	16	...	2
" , utility (pocket type) .....	...	2	...	2
" , n.e.s. (brief, cosmetic, fan, jewellery, radio, etc.) .....	...	692	...	1,242
Filler, automobile body.....	...	500	...	574
Games.....	...	148	...	439
Novelties, advertising.....	...	999	...	1,305
" , general.....	...	437	...	499
Signs and display .....	...	607	...	478
Skydomes.....	...	1,358	...	2
Stationery goods .....	...	699	...	787
Tackle, fishing.....	...	127	...	149
Toys (beach toys, blocks, dolls' clothes, etc., guns, inflatable toys, rattles, tea-sets, trucks, and wading pools, etc.) .....	...	3,694	...	3,963
Weiting, shoe, furniture, etc. ....	...	16,687	...	20,211
Miscellaneous plastics products, n.e.s. ....	...	49,600	...	60,661
Totals.....	...	49,600	...	60,661

See footnotes at end of table.

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

Description	1963		1964	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
1. Products - Concluded:				
Non-plastics miscellaneous products:				
Jigs, dies, etc. ....	...	177	...	424
Non-plastics miscellaneous products, n.e.s. ....	...	3,474	...	5,972
Totals .....	...	3,650	...	6,396
2. Amount received in payment for work done on materials and products owned by others .....	...	1,829	...	998
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	(766)	...	(761)
Total adjusted value of shipments and work done .....	...	145,358	...	173,143

- <sup>1</sup> Confidential. Included in "Basic shapes and forms, n.e.s."  
<sup>2</sup> Confidential. Included in "Household equipment and accessories, n.e.s."  
<sup>3</sup> Confidential. Included in "Clothing and personal equipment, n.e.s."  
<sup>4</sup> Confidential. Included in "Accessories and parts, n.e.s."  
<sup>5</sup> Confidential. Included in "Miscellaneous plastic products, n.e.s."

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries<sup>1</sup>, 1963 and 1964

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

Description	1963		1964	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
Film and sheet, unsupported, including "layflat" tubing: <sup>2</sup>				
Polyethylene .....	lb. 41,968,005	19,161	45,579,421	20,725
Polyvinyl chloride .....	" 13,640,129	7,217	14,800,153	7,293
Polystyrene .....	" 5,359,935	2,008	7,666,223	2,693
Foam (basic shapes and forms only):				
Polystyrene .....	" 4,645,000	3,517	3,225,000	2,284
Urethane:				
Rigid .....	" ..	..	279,000	230
Semi-rigid .....	" ..	..	..	..
Flexible .....	" ..	..	11,630,000	8,894
Total urethane .....	" 10,775,000	8,237	11,909,000	9,124
Other (including P.V.C. etc.) .....	" ..	681	251,000	369
Pipes, tubes, rigid and semi-rigid tubing (excluding hose and "layflat" tubing):				
Polyethylene .....	" 7,422,000	2,644	8,596,501	2,752
Vinyl, including P.V.C. ....	" 1,835,000	943	2,398,349	1,105
Other resins (Polystyrene, A.B.S. and others) .....	" 2,024,000	1,120	2,116,088	1,282
High pressure decorative laminate sheet - 1/8" thickness and less <sup>3</sup> .....	sq.ft. 41,304,022	13,846	46,776,094	15,623

<sup>1</sup> Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed above.

<sup>2</sup> Plant sales or shipments only; does not include the production of film converted within the same plant. The production of these three types of film by all manufacturers was collected in 1964 and was as follows:

- (a) Polyethylene: 63,448,604 pounds.  
(b) Polyvinyl chloride: 18,636,383 pounds.  
(c) Polystyrene: 7,666,223 pounds.

<sup>3</sup> Shipments to domestic customers only.

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)

Name	Location
Nova Scotia:	
Plastics Maritime Ltd. ....	2526 Agricola St., Halifax
New Brunswick:	
Atlantic Plastics & Yarns Ltd. ....	6 Martin St., Moncton
Crystal Ice Co. Ltd. ....	Wagoner's Lane, Fredericton
Engineered Plastics Ltd. ....	Nashwaakan
Kinghorn and Dickie Ltd. ....	Wagoner's Lane, Fredericton
Rogers Bros. Limited .....	Crown St. at Duke, Saint John
Sea Coast Enterprises Ltd. ....	560 Chaleur, Bathurst



List of Establishments classified to This Industry, 1964 - Continued

Name	Location
<b>Quebec:</b>	
Adanac Plastic	639 de la Ferme St., Montreal 22
Allied Extrusion Ltd.	2625 boul. Vanier, St-Hyacinthe
Alpha Plastics Co.	3455 Montgomery St., Montreal 34
Ampsal Forming Co.	20 Bates Rd., Outremont
Anchor Industrial Plastics Reg'd.	Pointe des Cascades
Armstrong Cork Canada Ltd.	Waterloo
Arnoldware Rogers (Canada) Ltd.	Rawdon
Ashdon Plastic (Quebec) Inc.	2200 St. Jacques St. W., Montreal
Audet Plastic Specialties Inc.	2480 Roy St., Sherbrooke
Beacon Plastics Ltd.	3510 Albert St., Montreal
Bedford Plastics Co. Ltd.	10740 Racette Ave., Montreal North
Bicycle Guild Inc.	1340 Balmoral St., St. Laurent
Blaines Plastic Co. Ltd.	3126 Dessaulles St., St. Hyacinthe
Bow Plastics Limited	15 Vittie St., Granby
Bromar Associates Ltd.	1100 Pacific Ave., Lachine
C.P.F. Plastics Ltd.	9961 Plaza Blvd., Montreal North
Copax (Montreal) Ltd.	3450 Albert St., Montreal
Creative Plastics Ltd.	Ste - Dorothee
Crescent Plastic Novelties Reg'd.	2110 St. Clement St., Montreal
Crystophane Co. of Canada Ltd.	925 14th Ave., Lachine
Customold Fibreglass Ltd.	5010 Angers St., Montreal
Cyanamid of Canada Limited (Laminated plastics)	55 Montcalm, St-Jean
Cyanamid of Canada Limited (Moulded plastics)	Sherbrooke St., Buckingham
Die Plast Ltd.	10620 Racette St., Montreal North
Dominion Comb & Novelty Company, The	200 St. Louis St., Warwick
Dominion Cutting Service Ltd.	540 Beaudry St., Montreal 24
Domtar Construction Materials Ltd. (Arborite Division)	385 LaFleur Ave., Ville LaSalle
Duma Plastic Engineering Co.	8585 Omer Gaucher Blvd., Rivières-des-Prairies
Duro Lam Limited	Labelle St., St. Jovite
E.C.S. Plastic Ltd.	6041 Hamilton St., Montreal
Electronic Products Inc.	110 St. Peter St., Montreal 1
Elwin Plastics Ltd.	Allen Street, Waterloo
Engravo Mfg. Co. Reg'd.	12271 Laurentian Blvd., Montreal 19
Epothane Products Ltd.	10436 Bellevois St., Montreal North
Flexible Products (Canada) Ltd.	146 Bates Rd., Town of Mount Royal
Fostery Brochu Inc.	Grand'mère East
General Plastics Co. Ltd.	Cookshire
Ginn Bros. Ltd.	Regina Ave., Verdun
G.M. Plastic Corporation	520 Robinson St., Granby
Hermes Plastics Ltd.	1015 St. Alexandre, Montreal
Hickey Plastic Co. Ltd.	1898 St. Antoine St., Montreal 3
Industrial Foam Converters Inc.	10369 Armand Laverne St., Montreal North
Industrial Plastic Extrusions Co. Ltd.	310 Laurence St., Greenfield Park
Jay Plastics Co. Ltd.	8645 - 8th Avenue, Ville St-Michel
Kal-Kar Insulation Corp.	191 Oneida Ave., Pointe-Claire
Kool-Ray Ltd.	1315 Barre St., Montreal
Lace Plastics Ltd.	6201 Park Ave., Montreal
Langlois, Jules	Lauzon
Lassonde-Plastic Industries Ltd.	1500 Laframboise, St. Hyacinthe
Leadflex Corporation Ltd.	978 Belanger St., Sherbrooke
Leco Industries Ltd.	97e Avenue, Parish of St-Thérèse
Les Industries Provinciales Ltée.	St. Damien de Buckland, Co. Bellechasse
Les Produits Duvernay Ltée	10421 Ethier, Montreal North
Lord Plastics Enrg'	249 St. Jacques St., St-Jacques-de-Montcalm
Lord Walter Plastics Inc.	8664 - 10th Ave., Ville St. Michel
M.K. Plastics Ltd.	143 Bates Rd., Outremont
McConnel, R.H. Co. Ltd.	Ste-Rose
Mainville Foot Moisture Condenser Reg'd.	Waterloo
Mansonville Plastics Ltd.	Mansonville
Medica Co. Ltd.	St. Hilaire
Modern Plastic Co. Ltd.	2955 Cartier St., St. Hyacinthe
Neelak Products Ltd.	145 Port Royal St. W., Montreal 12
Nicolet Plastique Ltée	138, rue St-Joseph, Nicolet
Niagara Plastic Products Ltd.	Pointe du Lac
Northern Plastic Industries Ltd.	8624 10th Ave., Ville St. Michel
Northern Resins Limited	37 St - Viateur St., Berthierville
Payge Manufacturing Ltd.	2300 Florian St., Montreal 24
Pharal Plastics Inc.	320, rue Elm, St. Lambert
Plastic Enterprises Ltd.	642 de Courcelle St., Montreal 30
Plastic Industries Ltd.	10125 Herbert St., Montreal North
Plasticon Inc.	10461 Henault, Montreal North
Plastic Packaging Products Ltd.	6005 G Côte-de-Liesse Rd., Montreal 9
Plasti-Lam Inc.	13 rue Des-Saules-est, Québec
Plastiseal Inc.	781 William Street, Montreal 3
Plastube Ltd.	420 Edouard Street, Granby
Precision Plastic Moulds Reg'd.	11795 Ethier St., Montreal North
Produits Duvernay Ltée	10421 Ethier St., Montreal North
Ralston, W. & Co. (Canada) Ltd.	455 Côte-Vertu Road, St. Laurent
Rehau Plastics (Canada) Ltd.	5765 Andover Ave., Montreal 9
Renaud, R. Enr.	2403 Monsabre St., Montreal 5
Rogers Plastics (Canada) Ltd.	Albert St., Rawdon
Rouette Glass & Plastic Cie. Ltée	75 Eastern Place, Ville St-Pierre
Rubea Plastics Ltd.	70 Mount Royal Ave. W., Montreal
St. John Plastics Ltd.	205 Seminaire Blvd., St. John
St. Lawrence Plastics & Metal Works Ltd.	1065 St. Germain, St-Laurent
Shawinigan Chemicals Ltd.	Blanchard St., Ste-Thérèse
Superex limited	525 Richmond St., Montreal 3
Thermo-Extrusions Inc.	9615 Papineau Room 170, Montreal 11
Thermoset Plastics Ltd.	225 Harwood Blvd., Dorion
Trepanier, J.P. Inc.	1066 St. Denis St., Sherbrooke
Tucker Plastic Products Ltd.	Coaticook
Tupperware Home Parties Ltd.	Cowansville

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
<b>Quebec - Concluded:</b>	
Twin-Pak Gilbert Ltée .....	270 St. Joseph St., Lachine
Union Carbide Canada Limited .....	Hanson St., Cowansville
Vernercraft (1957) Company .....	1896 Orléans Ave., Montreal 4
Vogue Plastics Limited .....	1819 des-Carrières St., Montreal 35
<b>Ontario:</b>	
ABC Blow Moulding Co. Ltd. ....	14 Racine Rd., Rexdale
Ackron Plastics Ltd. ....	33 Milvan Drive, Weston
Active Plastics Co. Ltd. ....	Quigley Rd., Hamilton
Adastra Plastics Co. ....	253 Merton St., Toronto
Aero Marine Industries Ltd. ....	5 Walker St., Oakville
Aladin Industries Inc. ....	5 McLachlan Dr., Rexdale
Alcore Fabricating Ltd. ....	307 Enford Rd., Richmond Hill
Alku Plastic Limited .....	143 Pears Rd., Toronto 5
Allied Sign Letters Ltd. ....	361 King St. E., Toronto
Architectural Plastics Ltd. ....	24 Milford Rd., Toronto
Astra Plastics Ltd. ....	58 Jarvis St., Toronto
Banco (Div. of Walter Dickenson Co. Ltd.) .....	34 Kern Rd., Don Mills
Barringham Plastics Ltd. ....	Clarkson
Barry-Shea Plastics Ltd. ....	54 Osler St., Toronto
Beach Awning Co. ....	301 Crockett St., Hamilton
Beauty Industry Co. ....	272 Sherman Ave., N., Hamilton
Beneke Industries Ltd. ....	1200 Renforth Drive, Rexdale
Biltex Ltd. ....	169 Kendal Ave., Toronto 4
Bishop Plastics ....	43 Dufferin St., Alliston
Bomar Plastics Ltd. ....	29 Colbourne St., Chatham
Brentwood Containers Ltd. ....	24 Ronson Dr., Rexdale
Bryer, Jack & Co. Ltd. ....	436 Wellington St. W., Toronto
Building Products of Canada Ltd. ....	Acton
Burry, Arthur A. ....	292 Adelaide St. W., Toronto
C-Clear Packaging Ltd. ....	23 Taber Rd., Rexdale
Callon Corporation Ltd. ....	1857 Walker Rd., Windsor
Canada Cup Ltd. ....	1568 Midland Ave., Scarborough
Canadian Extruders Ltd. ....	147 Rivalda Road, Weston
Canadian General-Tower Ltd. ....	52 Middleton St., Galt
Canadian Gisholt Plastics Ltd. ....	25 Medulla Ave., Toronto 18
Canadian Plastic Containers Ltd. ....	1200 Ellismere Ave., Scarborough
Canadian Thermos Products Ltd. ....	2040 Eglinton Ave. E., Scarborough
Carroll Plastics ....	Staymer
Cellair Limited .....	374 Fairall St., Ajax
Centri-Cast Ltd. ....	146 Bentworth Ave., Toronto
Clarkson Chemicals Ltd. ....	Clarkson
Cluthe, George Manufacturing Co. Ltd. ....	141 Weber St. S., Waterloo
Copak (Toronto) Ltd. ....	1500 O'Connor Dr., Toronto 16
Coroplastics Canada Ltd. ....	40 Mills., Ajax
Corvend Limited .....	188 Bentworth Ave., Toronto
Coupland Plastics Ltd. ....	12 Milvan Drive, Weston
Creators (Canada) Ltd. ....	374 Dundas St., Woodstock
Custom Plastic Covers Co. ....	41 Summitcrest Drive, Weston
Cyanamid of Canada Ltd. (Skydome Products) .....	19 Hafis Road, Toronto 15
Daron Industries ....	Norman Rogers Airport, Kingston
Deerfield Laminations Limited .....	175 Deerfield Rd., Newmarket
Deerfield Plastics Ltd. ....	175 Deerfield Rd., Newmarket
Delaney & Pettit Industries Ltd. ....	133 Jefferson Ave., Toronto 3
Dent & Vallis (Canada) Ltd. ....	125 Tycos Rd., Toronto
Dickinson, Walter Co. Ltd. ....	34 Kern Rd., Don Mills
Directory Service .....	465 Davis Drive, Newmarket
Dominion Poly Products Ltd. ....	11 Le Page Court, Downsview
Domtar Construction Materials Ltd. (Arborite Division) .....	46 Hollinger Road, Toronto 16
Domtar Consumer Products Ltd. ....	255 Wicksteed Ave., Leaside, Toronto 17
Dow Chemical of Canada Limited .....	375 Symington Ave., Toronto 9
Dupont of Canada Ltd. (Polyethylene film plant) .....	Dunlop Drive, Whitby
Dynaflex Plastics Limited .....	121 Cavan St., Port Hope
E.B. Looseleaf Ltd. ....	190 Milvan Drive, Weston
E.D.A. Associates Ltd. ....	1454 Kipling Ave. N., Toronto
Edmir Moulding Corp. of Canada Ltd. ....	286 Brunswick Ave., Toronto
Elka Sales & Supplies Ltd. ....	49 Chauncey Ave., Toronto
English Plastics Ltd. ....	245 Queen St. E., Brantford
Esterane Ltd. ....	23 Rainside Rd., Don Mills
F & H Plastics Ltd. ....	29 Faulkland Rd., Scarborough
F-M Superfab Ltd. ....	377 Olivewood Rd., Toronto
Fabricated Plastics Co. Ltd. ....	70 Belfield Rd., Rexdale
Falcon Chemicals Ltd. ....	24 Canmotar Ave., Toronto
Fiberez of Canada Ltd. ....	Cornwall
Fibre Plastic Products .....	Brockville
Fleberplast Co. ....	1109 A Bay St., Toronto
Flexmaster Co. Ltd. ....	300 Enford Rd., Richmond Hill
Formold Plastics of Canada Ltd. ....	390 Weston Rd., Toronto
French Ivory Products Ltd. The .....	7 Plastics Ave., Toronto 18
Furlong Plastics Limited .....	1293 Caledonia Road, Toronto 19
Glasmoil Plastics Ltd. ....	30 Bermondsey Rd., Toronto 16
Graham Products Ltd. ....	Inglewood
Harbour Plastics & Manufacturing Ltd. ....	65 Broadview Ave., Toronto 8
Hardifam Products Ltd. ....	66 Fordhouse Blvd., Toronto 18
Haugh's Products Ltd. ....	2301 Keele St., Toronto 15
Heather Plastics Ltd. ....	70 Belfield Rd., Rexdale
Helmac-Roth Ltd. ....	4920 Yonge St., Willowdale
Humphrey-Cosburn Plastics Ltd. ....	Markham
Imco Container (Canada) Ltd. ....	Cooksville
Industrial Plastics Canada Ltd. ....	Fort Erie
Ironside, G.H. Plastic Products .....	Georgetown



List of Establishments classified to This Industry, 1964 - Continued

Name	Location
<b>Ontario - Concluded:</b>	
KBG Plastics Ltd.	777 Warden Ave., Scarboro
Humphrey-Cosburn Plastics Ltd.	Bullock Dr., Markham
Imco Container (Canada) Ltd.	3174 Marvis Rd., Cooksville
Ironside, G.H. Plastic Products	R.R. 1, Georgetown
Karbo Plastics & Metalwares Ltd.	3873 Walker Rd., Windsor
Kelton Corporation Limited (Plastic Products)	314-326 Davenport Road, Toronto 5
Kemp Products Limited	1881 Huron St., London
Keystone - McDalen Manufacturing (Plastics) Ltd.	9 Davies Ave., Toronto 8
Kitchener Plastics Limited	962 Guelph St., Kitchener
Korlin Limited	577 Erie St., Stratford
Laminall Mfg. Co.	141 Pears Ave., Toronto
Lido Industrial Products Ltd.	40 Queen Elizabeth Blvd., Toronto 18
Lou-Hat Plastics	87½ Ashley Street, Hamilton
Magnoplast Ltd.	125 Tycos Dr., Toronto
Maple Leaf Plastics Limited	375 Danforth Rd., Scarborough
Marwal Plastics Ltd.	50 Spalding Drive, Brantford
Mermaid Plastic Industries	14 Darling Ave., Toronto 5
Midland Plastics (Div. of Midland Industries Ltd.)	Elizabeth St. E., Midland
Mitchell Plastics & Buttons Ltd.	97 Victoria St. N., Kitchener
M.M. Plastic (Mfg.) Company	62 Shaft Ave., Rexdale
Modern Plastic Products	98 Richmond St. E., Toronto 1
Moldex Ltd.	155 Vespra St., Barrie
Monarch Plastic Co.	12421 Tecumseh Rd. E., Tecumseh
Monsanto Canada Limited:	
Foam Division	8th Ave. N., Woodbridge
Moulded Products Division	8th Ave. N., Woodbridge
Morval Products Co. Ltd.	156 Birch Ave., Kitchener
Multi-Plastics Co.	54 Power St., Toronto 2
National Fibre Co. of Canada Ltd.	107 Atlantic Ave., Toronto 3
O & W Electronics Limited	1335 Lawrence Ave. E., Don Mills
Ohl's, J. Plastic Injection Moulding	25 Pinewood St., Waterloo
Olsonite Co. Ltd.	1587 McDougall St., Windsor
Ontario Steel Products Co. Ltd.	Gananoque
Orion Plastics Ltd.	15 Oakland Ave., Weston
Owens-Illinois of Canada Ltd.	50 Belfield Rd., Rexdale
Peerless Plastics Ltd.	2827 Howard St., Windsor
Permal (Canada) Ltd.	137 Kipling Ave. S., Toronto 18
Petco Products	78 Mack Ave., Scarboro
Plasticap Limited	193 Bartley Drive, Toronto
Plastic Pipes Ltd.	Dain Ave., Welland
Plastomer Limited	151 John St., Barrie
Plastilite Fabricating Ltd.	12 Hafis Road, Toronto 15
Plax Canada Limited	Victoria St., Georgetown
Polobak Plastics Ltd.	4500 Chesswood Drive, Downsview
Polybottle (1960) Limited	1925 Wilson Ave., Weston
Polychemical Industries Ltd.	Clarkson
Polyfiber Ltd.	Renfrew
Polyform Ltd.	28 Taber Rd., Rexdale
Porter, D. Products Ltd.	37 Bruce St., Kitchener
Precision Plastic Products Ltd.	90 Joseph St., Brampton
Progress Smelting & Refining Co. Ltd.	83 Walnut Ave., Toronto 2 B
Protective Plastics Ltd.	84 Rainside Road, Don Mills
Provincial Plastics Ltd.	Hespeler
Quality Plastics Ltd.	350 Avon St., Welland
Ray Plastics Ltd.	15 Toryork Dr., Weston
R.B.R. Agencies	Stouffville
Reach Plastics & Chemicals Ltd.	101 William St., Cornwall
Reed Manufacturing Co.	136 Sears St., Toronto
Regent Containers Ltd.	30 Progress Ave., Scarborough
Riviera Plastics Ltd.	Brockport Rd., Rexdale
R.K. Tool & Plastics Ltd.	123 Manville Rd., Scarborough
Roberts Bros. Plastics Ltd.	170 Princess St., Hamilton
Robinson Industrial-Crafts Ltd.	310 Wellington Rd. S., London
Rose Plastics Ltd.	51 Jefferson Ave., Toronto 3
Rosedale Plastics International Ltd.	65 King St., Lindsay
Rosedale Plastic Sales Ltd.	Lindsay
Scepter Mfg. Co. Ltd.	30 Cranfield Rd., Toronto
Sea-Way Chemicals Ltd.	2 Manse Rd., West Hill
Sheller Manufacturing Corporation (Canadian Div.)	253 Queen St. E., Brampton
Shirlite Manufacturing Co. Ltd., The	91 Whitney Place, Kitchener
Smith and Stone Ltd. (Plastics Division)	Georgetown
Smithers of Canada Ltd.	376 Fairall St., Ajax
Somerville Plastics Ltd.	376 Orenda Rd., Bramalea
Spaulding Fibre of Canada Ltd.	70 Coronet Rd., Toronto 18
Sterling Plastic Manufacturing Co. Ltd.	38 Advance Rd., Toronto 18
Standard Plastic Products (Canada) Ltd.	1320 Jane St., Toronto
Staton, Robert W. Ltd.	3 Jenson Court, Rexdale
Stor-Aid of Canada Ltd.	45 Forsythe St. S., Oakville
Stradwick Industries Ltd.	379 Highbury Ave., London
Strong Plastic Sales Ltd.	18 Curity Ave., Toronto 16
Structural Fibers (Canada) Ltd.	R.R.# 2, Stouffville
Taylor Chemical Foam Industries Ltd.	514-8th Line, Oakville
Teldonck & Sons	North Lancaster
Telso Products Ltd.	Tilbury
Textile Novelty Co.	30 De Quincy, Downsview
Thermoset Plastics (Guelph) Ltd.	353 Elizabeth St., Guelph
Thompson, A.R. & Son	3260 A Lakeshore Blvd., New Toronto
Tilco Plastics Limited	475 Parkhill Rd., Peterborough
Tip Top Products Ltd.	181 Yonge St., Newmarket
Toronto Plastics Ltd.	15 Mobile Drive, Toronto 16
Trans-Canada Plastics Ltd.	70 Wingold Ave., Toronto 19



List of Establishments classified to This Industry, 1964 - Concluded

Name	Location
<b>Ontario - Concluded:</b>	
Triangle Plastics Ltd.	240 Glendale Ave., St. Catharines
Trident Industries Ltd.	362 King St. N., Waterloo
Trojan Bros.	232 Bathurst St. (Rear), Toronto 2 B
Truline Plastics Ltd.	70 Crockford Blvd., Scarborough
Tywood Industries Ltd.	95 Kenhar Dr., Weston
Ursini Plastics	15 Main St. N., Uxbridge
Victor Advertising Specialities	5114 Dundas St. W., Islington
Vue-Craft Products Ltd.	511 King St. W., Toronto 2 B
Walter, John & Sons Ltd.	11 Hoffman St., Kitchener
Weldo Plastics (Canada) Ltd.	278 Davenport Road, Toronto 5
Welsh Plastics	1875 Leslie St., Don Mills
Westek Plastics Limited	16 Cosentino Drive, Scarboro
Whitney Plastics Ltd.	131 Whitney Place, Kitchener
Windsor Creative Plastics Ltd.	1659 Turner Rd., Windsor
Wintrob, M. & Sons Canada Ltd.	260 Spadina Ave., Toronto 2 B
W.L. Moulding Company, The	136 Edward St., St. Thomas
Wolfe, William & Co.	9 McGee St., Toronto 8
Woodbridge Moulded Products Ltd.	20 Toro Rd., Downsview
Woolley, Glenn S. & Co. Ltd.	Box 315, Ajax
W.T. Plastics Ltd.	287 King St. E., Toronto 2
Yardley Plastics of Canada Ltd.	675 Richmond St., Chatham
York Plastic Industries	Carrville Rd. W., Maple
<b>Manitoba:</b>	
Aakton Plastics Limited	1830 Dublin Ave., Winnipeg 2
Aerofoam Chemicals Limited	2485 Day St., Winnipeg 25
Anglo Plastics Ltd.	421 Edison Ave., Winnipeg 16
Dawn Plastics Ltd.	803 Erin St., Winnipeg 10
Duraplex Products Ltd.	540 Fleet Ave., Winnipeg
Kustom Plastics Manitoba Ltd.	72 Vornl Ave., Winnipeg 23
Perma Plastics Co.	172 Lansdowne Ave., Winnipeg
Plastic Film (Manitoba) Ltd.	114 Market Ave. E., Winnipeg 2
Plastic Windows Ltd.	803 Erin St., Winnipeg 10
Plastilam Ltd.	306 Ross Ave., Winnipeg 2
Speers Petrochemicals Ltd.	1462 Erin St., Winnipeg 3
Standard Plastic Co.	771 Main St., Winnipeg 4
Thompson-Melita Festival Supply Co.	Melita
Union Carbide Canada Ltd. (Visking Division)	cor. Waverley St. & Sommerville Ave., Fort Garry
<b>Saskatchewan:</b>	
Glassfibre Products Ltd.	Wynyard
Grandview Industries Ltd.	Weyburn
Prairie Plastics Ltd.	Swift Current
Remco Plastic Products	1075 McDonald St., Regina
<b>Alberta:</b>	
Acrylic Plastics Limited	Hanger 16, Municipal Airport, Edmonton
Alberta Plastic Laminators	7359 - 104 St., Edmonton
Alberta Polytubes Ltd.	12105 - 120th Ave., Edmonton
Century Fiberglass Ltd.	4112 - 16 A St. S.E., Calgary
Durathane Industries Ltd.	5635 - 103rd St., Edmonton
Dymer Plastics Ltd.	82nd Ave. & 50th St., Edmonton
Edmonton Plastics Ltd.	9850 - 62nd Ave., Edmonton
J.C. Mfg. Co. Ltd.	15845 - 112th Ave., Edmonton
Layfield Plastics Ltd.	121 - 121st Ave., Edmonton
Marpak Plastics Ltd.	12105 - 120th Ave., Edmonton
Matriynex Plastics Ltd.	Municipal Airport, Edmonton
Peterson Plastics	11929 - 156 St., Edmonton
Plastic Platemakers Ltd.	10056 - 109 St., Edmonton
Polychemical Industries Ltd.	Highway 14 E., Edmonton
R & M Fibreglass Ltd.	Airdrie
Solarlite Plastic Industries Ltd.	204 - 40 Ave., N.E., Calgary
Spencer-Lemaire Industries Ltd.	9160 Jasper Ave., Edmonton
Taylor Plastics Ltd.	733 - 735 - 10th Ave. S.W., Calgary
<b>British Columbia:</b>	
Canbri (B.C.) Ltd.	162 Water St., Vancouver 3
Columbia Plastics Ltd.	2155 West 10th Ave., Vancouver 9
Condor Engineering Ltd.	3910 Grant St., Burnaby 2
Davis, Clay	73 - 81 Alexander St., Vancouver 4
Delta Foam Board Insulation Ltd.	4907 Chisholm St., Ladner
Foamtex Manufacturing Ltd.	1415 Dominion St., North Vancouver
Grandview Industries (1964) Ltd.	920 Derwent Way, New Westminster
Haida Designs Mfg. Ltd.	116 East Esplanade, North Vancouver
Hanson Plastics Ltd.	1751 West 3rd Ave., Vancouver 9
Industrial Coatings Ltd.	237 East 4th Ave., Vancouver 10
J & C Mfg. Co. Ltd.	1668 - 1st Ave., Vancouver
Listo Products Ltd.	1716 East Hastings St., Vancouver
Marine Plastics Ltd.	678 Derwent Way, New Westminster
Newmarket Plastic & Mfg. Ltd.	611 Front St., New Westminster
Okanagan Fibre glass	R.R. # 1, Kelowna
Pacific Plastics of Canada Ltd.	650 Industrial Ave., Vancouver 4
Somerville Industries Limited (Impac Western Ltd.)	1636 West - 1st Ave., Vancouver
T.K. Products Ltd.	440 Brooksbank Ave., North Vancouver
Trans-Lite Plastics Ltd.	8850 Selkirk St., Vancouver 14
Tuberculous & Chest Disabled Veterans' Assoc.	530 W. Broadway, Vancouver 9
Ultraluk Plastic Industry Ltd.	898 River Drive, Richmond, Vancouver
Western Plasticraft Ltd.	882 East Cordova St., Vancouver 4
Union Carbide Canada Ltd. (Visking Division)	13221 - 76th Ave., Newton

# 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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