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PLASTICS FABRICATORS, N.E.S.

1965

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 1965 there were 376 establishments classified to this industry as opposed to 354 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 1964, 1965 and 1966 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 1965 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.
- * revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-65

Year and Province	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	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	60,688
1963													
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
1965													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	2	x	x	x	x	x	x	x	—	—	x	x	x
New Brunswick	6	37	81	103	13	341	663	314	—	—	48	141	319
Quebec	103	2,747	6,218	9,810	844	29,788	63,861	33,937	17	56	3,489	14,451	34,017
Ontario	207	5,751	12,196	20,802	1,666	61,488	119,277	57,797	33	131	7,324	30,720	59,935
Manitoba	13	115	251	482	43	1,124	2,054	1,124	3	11	149	682	1,136
Saskatchewan	3	x	x	x	x	x	x	x	—	—	x	x	x
Alberta	18	165	358	576	47	1,615	3,179	1,687	x	x	214	776	1,727
British Columbia	24	253	514	1,059	109	2,478	5,373	2,908	x	x	347	1,639	3,109
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	376	9,093	19,670	32,906	2,743	97,284	195,069	98,010	58	222	11,617	48,585	100,563

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1964													
Under \$10,000	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	334	8,180	17,566	27,783	2,368	87,662	173,143	84,722	57	241	10,493	41,444	85,939
1965													
Under \$10,000	17	3	6	7	4	33	91	56	16	28	4	10	56
\$ 10,000 to \$ 24,999	32	29	62	91	12	231	551	311	20	75	42	135	313
25,000 " 49,999	47	180	396	636	48	929	1,711	1,008	12	60	235	913	1,068
50,000 " 99,999	57	299	625	910	72	1,957	4,151	2,185	7	44	405	1,356	2,322
100,000 " 199,999	54	513	1,092	1,780	161	3,734	7,986	4,184	—	—	700	2,799	4,474
200,000 " 499,999	74	1,247	2,608	4,259	375	11,604	23,143	11,680	3	15	1,607	6,427	12,462
500,000 " 999,999	44	1,850	4,032	6,124	500	14,960	31,630	16,493	—	—	2,260	9,022	17,455
1,000,000 " 4,999,999	46	4,023	8,648	14,368	1,126	44,316	87,328	43,643	—	—	4,952	20,443	44,068
5,000,000 and over	5	949	2,200	4,730	446	19,520	38,479	18,450	—	—	1,412	7,479	18,344
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	376	9,093	19,670	32,906	2,743	97,284	195,069	98,010	58	222	11,617	48,585	100,563

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1964													
Under \$10,000	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 .....	...	...	...	...	...	...	...	...	...	...	3	14	(2)
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	334	8,180	17,566	27,783	2,368	87,662	173,143	84,722	57	241	10,493	41,444	85,939
1965													
Under \$10,000	37	20	42	74	15	238	431	185	30	75	31	117	185
\$ 10,000 to \$ 24,999	57	155	330	484	44	1,012	1,968	954	18	88	206	667	1,030
25,000 " 49,999	57	284	605	876	73	2,096	4,249	2,109	6	38	394	1,378	2,256
50,000 " 99,999	58	583	1,230	1,997	185	5,161	9,485	4,260	4	20	799	3,122	4,976
100,000 " 199,999	58	968	2,042	3,298	260	8,250	16,366	8,268	—	—	1,230	4,922	8,873
200,000 " 499,999	56	2,041	4,348	6,758	540	19,921	38,111	18,049	—	—	2,525	10,004	18,511
500,000 " 999,999	33	2,201	4,779	7,594	596	23,715	45,562	21,905	—	—	2,690	11,250	22,411
1,000,000 " 4,999,999	20	2,841	6,294	11,825	1,030	36,891	78,897	42,281	—	—	3,742	17,126	42,306
5,000,000 and over .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	376	9,093	19,670	32,906	2,743	97,284	195,069	98,010	58	222	11,617	48,585	100,563

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1964													
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	1	—	—	—	—	—	—	—	—	—	—	—	—
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
1965													
Under \$10,000	38	23	48	84	16	299	476	174	30	75	36	140	189
\$ 10,000 to \$ 24,999	53	142	304	446	37	828	1,757	913	18	88	183	576	920
25,000 " 49,999	56	274	580	833	69	1,976	3,998	1,998	6	38	373	1,284	2,077
50,000 " 99,999	57	552	1,167	1,903	169	4,963	9,027	4,035	4	20	753	2,893	4,260
100,000 " 199,999	60	959	2,025	3,278	266	8,017	16,154	8,253	—	—	1,215	4,865	8,616
200,000 " 499,999	59	2,123	4,530	7,005	573	20,592	39,571	18,798	—	—	2,631	10,488	19,652
500,000 " 999,999	32	2,078	4,468	7,177	572	23,016	43,583	20,606	—	—	2,558	10,654	21,467
1,000,000 " 4,999,999	21	2,942	6,547	12,180	1,041	37,593	80,504	43,233	—	—	3,868	17,685	43,383
5,000,000 and over	1	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	376	9,093	19,670	32,906	2,743	97,284	195,069	98,010	58	222	11,617	48,585	100,563

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1964													
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)
Totals	354	8,180	17,566	27,783	2,368	87,662	173,143	84,722	57	241	10,493	41,444	85,939
1965													
Under 5 employed	92	129	280	413	52	1,420	2,903	1,448	45	151	173	600	1,572
5 - 14 employed	110	683	1,468	2,312	211	6,590	12,973	6,494	11	61	932	3,573	6,889
15 - 49 "	105	2,144	4,593	7,854	693	23,265	44,855	21,638	2	10	2,811	12,036	23,239
50 - 99 "	40	2,300	4,926	7,550	581	22,214	44,156	21,985	—	—	2,809	11,234	22,247
100-199 "	24	2,654	5,639	9,325	769	27,053	54,966	28,305	—	—	3,255	12,975	28,628
200-499 "	5	1,183	2,765	5,452	438	16,742	35,215	18,140	—	—	1,637	8,167	17,989
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	376	9,093	19,670	32,906	2,743	97,284	195,069	98,010	58	222	11,617	48,585	100,563

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

Type of organization	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	
1964													
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)
Totals	354	8,180	17,566	27,783	2,368	87,662	173,143	84,722	57	241	10,493	41,444	85,939
1965													
Individual ownerships	41	66	136	198	21	493	1,143	631	40	158	70	209	638
Partnerships	9	23	43	62	3	209	393	181	18	64	25	70	181
Incorporated companies	326	9,004	19,490	32,647	2,719	96,582	193,533	97,198	...	...	11,522	48,305	99,745
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	376	9,093	19,670	32,906	2,743	97,284	195,069	98,010	58	222	11,617	48,585	100,563

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1964	1965	1964	1965	1964	1965
\$'000						
Output						
1. Shipments and other revenue	173,143	195,069	9,969	12,128	183,112	207,197
Inventories— Goods of own manufacture:						
Add closing— Goods in process	3,251	3,704	...	...	3,251	3,704
Finished goods	10,589	12,678	...	...	10,589	12,678
Deduct opening— Goods in process	2,920	3,027	...	...	2,920	3,027
Finished goods	9,311	10,386	...	...	9,311	10,386
2. Net inventory change	1,809	2,969	...	...	1,609	2,969
3. Gross output (1 + 2)	174,752	198,038	9,969	12,128	184,721	210,166
Input						
4. Purchases of goods not of own manufacture .....	...	...	7,901	8,743	7,901	8,743
Inventories— Goods not of own manufacture:						
Add opening .....	...	...	825	1,341	825	1,341
Deduct closing .....	...	...	1,081	1,470	1,081	1,470
5. Cost of goods sold (not of own manufacture) .....	...	...	7,645	8,614	7,645	8,614
6. Materials, supplies, etc.	87,662	97,284	1,109	960	88,771	98,244
7. Fuel and electricity	2,368	2,743	...	...	2,368	2,743
8. Gross input (5 + 6 + 7)	90,030	100,027	8,754	9,574	98,784	109,601
Value added (3 - 8)	84,722	98,010	1,215	2,554	85,939	100,563

TABLE 8. Employment and Payroll, 1964 and 1965

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Adminis- trative and office	Sales and distrib- ution	Total
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female						Manufacturing	Other
1964	number										\$'000				
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
1965															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	x	—	—	—	x	x	x	x	x	x	x	—	x	x	x
New Brunswick	33	4	—	—	8	3	—	—	41	7	103	—	39	—	141
Quebec	2,060	687	11	3	431	166	113	18	2,615	874	9,810	62	3,659	920	14,451
Ontario	3,268	2,483	7	—	808	432	290	36	4,373	2,951	20,802	43	7,549	2,326	30,720
Manitoba	98	17	—	—	24	9	1	—	123	26	482	—	192	8	682
Saskatchewan	x	—	—	—	x	x	x	x	x	x	x	—	x	x	x
Alberta	118	47	1	—	34	9	5	—	158	56	576	4	172	25	776
British Columbia	187	66	—	—	50	21	21	2	258	89	1,059	1	451	128	1,639
Yukon and Northwest Terri- tories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	5,789	3,304	19	3	1,367	644	434	57	7,609	4,008	32,906	111	12,142	3,426	48,585

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

Month	1964		1965	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	4,457	2,697	4,983	2,828
February	4,584	2,818	5,101	2,887
March	4,670	2,908	5,243	3,048
April	4,727	2,878	5,290	3,135
May	4,764	2,883	5,344	3,199
June	4,991	2,969	5,618	3,318
July	5,036	2,940	5,529	3,301
August	5,142	3,031	5,720	3,356
September	5,074	3,097	5,542	3,414
October	5,025	3,074	5,666	3,382
November	5,054	2,990	5,647	3,331
December	5,057	2,853	5,636	3,192
Averages	4,889	2,932	5,460	3,202
Establishments reporting annual averages (small establishments only)	264	95	329	102
Average for all establishments	5,153	3,027	5,789	3,304

TABLE 10. Inventories, 1965

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	x	—	x	x	x	x
New Brunswick	27	—	9	36	—	36
Quebec	4,311	944	3,220	8,475	201	8,676
Ontario	7,047	1,964	6,564	15,575	912	16,487
Manitoba	79	45	57	180	—	180
Saskatchewan	x	—	x	x	x	x
Alberta	151	2	235	388	85	473
British Columbia	202	72	236	511	114	625
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	11,901	3,027	10,386	25,314	1,341	26,656
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	x	—	x	x	x	x
New Brunswick	40	—	13	54	—	54
Quebec	4,790	949	3,924	9,663	206	9,869
Ontario	8,393	2,550	7,652	18,596	963	19,559
Manitoba	182	82	257	520	—	520
Saskatchewan	x	—	x	x	x	x
Alberta	200	6	402	608	108	716
British Columbia	283	116	315	714	140	855
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	14,022	3,704	12,678	30,404	1,470	31,874

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

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	1,834	921	14
(b) Imported	"	6,228	8,784	117
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	165	224	4
Lignite coal	"	—	—	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	268,647	290,871	125
Fuel oil including kerosene or coal oil	"	2,820,808	3,211,039	306
Wood	cord	50	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	39,280	42,646	14
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	282,694	356,624	317
Other fuel .....		...	...	1
Electricity purchased	kwh.	119,117,765	144,572,783	1,621
Steam purchased .....		...	...	95
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity		82	...	131
3. All establishments:				
Total fuel and electricity used		2,368	...	2,743

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

Description	1964				1965			
	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	4,015,470	3,183,729	280,849	1,732	4,915,334	2,612,906	250	1,610
(b) Other	39,997	-	45,064	56	80,975	-	7,624	61
Amino-aldehyde types:								
(a) Urea-formaldehyde	1,336,627	-	-	383	1,282,778	-	-	361
(b) Melamine-formaldehyde	2,262,712	2,125,600	-	1,476	1,980,324	1,905,255	-	1,246
Epoxies	1,314	57,836	-	42	4,370	40,478	-	33
Alkyd types:								
Polyesters	974,191	3,099,949	320,094	1,500	1,734,121	3,193,133	223,390	1,659
Polyamide types:								
(a) Nylon	767,676	-	17,731	786	657,724	-	27,109	694
(b) Other	5,575	500	1,000	12	3,875	-	1,100	7
Styrene types:								
(a) Polystyrene	35,518,641	270,412	2,476,989	9,604	44,032,171	286,821	2,339,253	10,298
(b) Other	2,012,389	67,984	153,053	785	2,309,637	42,440	74,900	828
Vinyl types:								
(a) Vinyl acetate	92,065	-	479,540	319	110,685	51,237	111,811	182
(b) Vinyl chloride	14,072,833	95,840	4,369,183	4,961	17,421,139	101,123	4,730,428	6,026
(c) Other	274,711	-	460,048	311	544,686	362,199	223,160	394
Polyethylene types	76,773,193	-	1,756,770	18,505	96,493,132	-	742,518	20,311
Acrylic types	953,184	527,775	535,319	1,107	1,561,457	117,438	430,160	1,208
Acrylonitrile-butadiene-styrene (ABS)	1,939,540	-	76,210	941	2,492,389	-	320,406	1,398
Other synthetic resin types	2,596,386	4,837,741	423,008	2,544	3,352,730	4,646,240	86,216	2,407
Cellulose plastics:								
Cellulose acetate	571,567	-	629,902	807	450,404	-	606,144	724
Cellulose acetate butyrate	499,519	-	122,565	411	453,563	-	98,375	287
Ethyl cellulose	8,576	-	2,074	9	5,850	-	1,054	6
Cellulose film ("cellophane", etc.)	9,895	7,718	190,352	161	8,955	8,104	458,246	377
Other cellulose plastics	35,449	-	-	24	97,007	-	-	68
Other plastics	798,560	107,846	4,004,758	6,116	865,900	2,519,400	7,329,737	8,540
Other materials:								
Cotton fabrics	-	-	-	2,010	-	-	-	2,352
Other fabrics	-	-	-	612	-	-	-	481
Fibre glass	-	-	-	976	-	-	-	951
Paper	-	-	-	5,291	-	-	-	5,537
Rubber	-	-	-	127	-	-	-	271
Metals	-	-	-	1,495	-	-	-	2,506
Paints, lacquers, pigments, etc.	-	-	-	925	-	-	-	968
All other materials and components used ¹ .....	...	...	...	14,992	...	...	...	15,742
2. Containers and other packaging materials and supplies used .....	...	...	...	3,831	...	...	...	4,168
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	...	...	4,072	...	...	...	4,858
4. Amount paid out to others for work done on materials owned by establishments .....	...	...	...	739	...	...	...	724
Totals .....	...	...	...	87,662	...	...	...	97,284

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$2,521,611 in 1964 and \$2,813,050 in 1965.

TABLE 13. Shipments of Goods of Own Manufacture, 1964 and 1965

Description	1964		1965	
	Quantity	Value \$'000	Quantity	Value \$'000
1. Products:				
Basic plastic shapes and forms:				
Film and sheet, unsupported (including "layflat" tubing)	...	20,688	...	21,975
Sheet, reinforced (including low-pressure laminates)	...	1	...	1
Film and sheet, n.e.s.	...	956	...	1
Angles, channels, rods, tees and similar shapes	...	1,866	...	2,206
Pipes, tubes, rigid and semi-rigid tubing (excluding hoses and "layflat" tubing)	...	5,499	...	7,101
Hoses and flexible tubing (excluding "layflat" tubing and garden hose)	...	203	...	584
High-pressures laminated plastics, all types	...	23,544	...	24,778
Basic shapes and forms, n.e.s. (including bars, blocks, foam and screening)	...	16,474	...	21,089
Totals	...	69,230	...	77,733
Plastic household equipment and accessories:				
Awnings	...	2	...	2
Bags, plastic film, beach, diaper, knitting, shoe and shopping	...	230	...	2
" " " n.e.s. (clothing, cosmetic, dry cleaning, garment storage, laundry, etc.)	...	2	...	2
Clothesline and accessories	...	2	...	2
Containers, food (other than bags)	...	4,751	...	3,842
Covers, film, furniture	doz.	1	80,616	60
Covers, film, food, and other, n.e.s.	314,317	174	92,603	410
Cups, disposable	gross	2,846,005	3,320	4,136
Curtains and drapes (including shower)	...	2	4,231,520	2
Dinnerware and table dishes	...	2,824	...	3,045
Flatware	...	401	...	175
Flower pots	doz.	317,790	238	316,044
Fly-swatters	"	39,068	19	26,084
Furniture, furniture glides, and other furniture accessories	...	722	...	2,056
Handles and knobs	...	748	...	839
Hangers, garment	doz.	319,000	406	618,834
Hose, garden, and hose couplings	...	537	...	688
Kitchenware	...	4,860	...	7,779
Seats, toilet	No.	791,124	2,240	785,069
Seats, toilet-training	...	2	...	2
Tablecloths (table covers)	...	2	...	2
Tile, floor and wall, etc.	sq. ft.	4,687,466 ^F	860	4,628,696
Trays	...	2	...	333
Household equipment and accessories, n.e.s. (including drop-sheets)	...	5,537	...	6,657
Totals	...	27,864	...	33,860
Plastic clothing and personal equipment:				
Aprons	...	3	...	3
Bins	...	3	...	3
Brushes and brush parts	...	594	...	364
Buttons	...	3	...	3
Combs	doz.	2,884,923	904	2,631,717
Barrettes	"	298,303	205	3
Hair-dressing accessories, n.e.s.	...	1,449	...	1,524
Pants, babies'	doz.	853,726	1,674	3
Rainwear	...	3	...	3
Sunglasses, complete	...	3	...	3
Clothing and personal equipment, n.e.s. (jewellery, knitting needles, purses, wallets and billfolds, etc.)	...	3,927	...	4,108
Totals	...	8,753	...	6,974
Miscellaneous plastic products:				
Accessories and parts:				
Aircraft	...	4	...	4
Automobile	...	4,315	...	8,032
Dies, moulds and jigs	...	351	...	640
Electrical	...	2,639	...	4,038
Industrial, miscellaneous	...	4,693	...	6,527
Plumbing	...	582	...	661
Radio, telephone and television	...	1,304	...	1,836
Refrigeration	...	1,792	...	2,014
Accessories and parts, n.e.s.	...	2,335	...	1,019
Bottles	...	10,000	...	11,971
Boxes, hosiery, jewellery, millinery, and other	...	493	...	423
Caps and closures, bottle	...	2,415	...	2,981
Cases, clock	...	95	...	57
" luggage	...	5	...	5
" utility (pocket type)	...	5	...	34
" n.e.s. (brief, cosmetic, fan, jewellery, radio, etc.)	...	1,242	...	1,173
Filler, automobile body	...	574	...	726
Games	...	439	...	577
Novelties, advertising	...	1,305	...	1,276
" general	...	499	...	335
Signs and display	...	478	...	602
Skydomes	...	5	...	801
Stationery goods	...	787	...	1,099
Tackle, fishing	...	149	...	79
Toys (beach toys, blocks, dolls' clothes, etc., guns, inflatable toys, rattles, tea-sets, trucks, and wading pools, etc.)	...	3,963	...	3,980
Wetting, shoe, furniture, etc.	...	5	...	110
Miscellaneous plastics products, n.e.s.	...	20,211	...	19,073
Totals	...	60,661	...	70,064

See footnotes at end of table.

TABLE 13. Shipments of Goods of Own Manufacture, 1964 and 1965 - Concluded

	1964		1965	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
1. Products - Concluded:				
Non-plastics miscellaneous products:				
Jigs, dies, etc.	424	...	612
Non-plastics miscellaneous products, n.e.s.	5,972	...	5,653
Totals	6,396	...	6,265
2. Amount received in payment for work done on materials and products owned by others	998	...	1,016
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(761)	...	(844)
Total adjusted value of shipments and work done	173,143	...	195,069

¹ Confidential. Included in "Basic shapes and forms, n.e.s.".

² Confidential. Included in "Household equipment and accessories, n.e.s.".

³ Confidential. Included in "Clothing and personal equipment, n.e.s.".

⁴ Confidential. Included in "Accessories and parts, n.e.s.".

⁵ Confidential. Included in "Miscellaneous plastic products, n.e.s.".

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1964 - 66
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

	1964 ^f		1965		1966 ^f	
	Quantity	Value	Quantity	Value	Quantity	Value
		\$'000		\$'000		\$'000
Film and sheet, unsupported, including "layflat" tubing: ¹						
Polyethylene	lb. 45,579,421	20,725	55,490,972	24,006	65,559,123	27,547
Polyvinyl chloride	" 14,800,153	7,293	15,330,950	8,411	16,359,806	9,094
Polystyrene	" 7,686,223	2,693	8,153,879	2,902	7,695,932	2,774
Foam (basic shapes and forms only):						
Polystyrene	" 3,225,000	2,284	4,720,000	3,326	6,304,000	3,553
Urethane:						
Rigid	" 279,000	230	³	³	³	³
Semi-rigid	" -	-	³	³	-	-
Flexible	" 11,630,000	8,894	14,747,000	10,379	³	³
Total urethane	" 11,909,000	9,124	15,078,000	10,721	15,727,000	9,324
Other (including P.V.C. etc.)	" 251,000	369	..	840	..	678
Pipes, tubes, rigid and semi-rigid tubing (excluding hose and "layflat" tubing):						
Polyethylene	" 9,540,000	3,139	10,605,000	4,090	10,705,000	3,830
Vinyl:						
P.V.C.	" } 2,431,000	1,147	{ 5,954,000	1,868	{ 8,560,000	2,603
Other types	" }		{ 4	4	{ 4	4
Polystyrene	" } 1,173,000	760	{ 1,029,000	335	{ 1,685,000	624
Other resins	" }		{ 673,000	747	{ 850,000	818
High pressure decorative laminate sheet - 1/8" thickness and less ²	sq. ft. 46,776,094	15,623	50,046,841	16,461	54,899,524	17,801

¹ Plant 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, 1965 and 1966 and was as follows:

	1964	1965	1966
(a) Polyethylene	lb. 63,448,604	71,742,951	84,351,544
(b) Polyvinyl chloride	" 18,636,383	21,510,848	24,647,526
(c) Polystyrene	" 7,666,223	8,208,879	8,147,973

² Shipments to domestic customers only.

³ Confidential. Included in "Total urethane".

⁴ Confidential. Included in "Other resins".

List of Establishments classified to this Industry, 1965

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

Name	Location
Nova Scotia:	
Markland Works Ltd.	Amherst
Plastics Maritime Ltd.	Agricola St., Halifax
New Brunswick:	
Atlantic Plastics & Yarns Ltd.	Mill Rd., Moncton
Crystal Ice Co. Ltd.	5 Seaton St., Saint John
Edmundston Paper Box Ltd.	29, rue St-Georges, Edmundston
Engineered Plastics Ltd.	McLeod Hill, Fredericton
Kinghorn and Dickie Ltd.	Rookwood Ave., Fredericton
Sea Coast Enterprises Ltd.	560 Chaleur, Bathurst
Quebec:	
Abond Plastics Corp.	6875 de l'Épée Ave., Montreal
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
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., Montréal-Nord
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., Montréal-Nord
Copax (Montreal) Ltd.	3450 Albert St., Montreal
Creative Plastics Ltd.	Ste-Dorothee
Crescent Plastic Novelties Reg'd.	2110 St. Clement St., Montreal
Customold Fiberglass 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., Montréal-Nord
Dominion Comb & Novelty Company, The	200 St. Louis St., Warwick
Dominion Plastic Containers Ltd.	25 Dumoulin St., Ville St-Pierre
Domtar Construction Materials Ltd. (Arborite Division)	385 LaFleur Ave., Ville LaSalle
Domtar Plastic Packaging	6005 Côte-de-Liesse Rd., St. Laurent
Duma Plastic Engineering Co.	8585 Omer Gaucher Blvd., Rivière-des-Prairies
Duro Lam Limited	Labelle St., St. Jovite
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., Montréal-Nord
Faco Plastic Inc.	7980 - 181ème Ave., St-Michel
Fibreglass Specialties	5241, rue Chanoine Moreau, Trois-Rivières
Foster & Brochu Inc.	Grand'mère East
Futurama Plastic Inc.	Lauzon
General Plastics Co. Ltd.	Cookshire
Ginn Bros. Ltd.	Regina Ave., Verdun
G.M. Plastic Corporation	520 Robinson St., Granby
Hemes Plastics Ltd.	1015 St. Alexandre, Montreal
Hichey Plastic Co. Ltd.	1898 St. Antoine St., Montreal 3
Industrial Foam Converters Inc.	10369 Armand Lavergne St., Montréal-Nord
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
LaSalle Plastic Mould Inc.	3162 - 37e Ave., Ville St-Michel
Lassonde-Plastic Industries Ltd.	1500 Laframboise, St. Hyacinthe
Leadflex Corporation Ltd.	978 Bélanger St., Sherbrooke
Leco Industries Ltd.	97e Avenue, Parish of Ste-Thérèse
Lemay, Madame Jean	Masson
Les Industries Provinciales Ltée	St-Damien-de-Buckland, Co. Bellechasse
Les Produits Duvernay Ltée	10421 Ethier, Montréal-Nord
Lord Plastics Enr.	249 St. Jacques St., St-Jacques-de-Montcalm
M.K. Plastics Ltd.	143 Bates Rd., Outremont
McConnel, R.H. Co. Ltd.	Ste-Rose
Mainville Foot Moisture Condenser Reg'd.	Waterloo
Masonville Plastics Ltd.	Mansonville
Medica Co. Ltd.	St-Hilaire
Modern Plastic Co. Ltd.	2955 Cartier St., St. Hyacinthe
Modlin, Norman, Industries Ltd.	4361 de Bullion St., Montreal
Neelak Products Ltd.	145 Port Royal St. W., Montreal 12
Nicolet Plastique Ltée	138, rue St-Joseph, Nicolet
Northern Plastic Industries Ltd.	8624 - 10th Ave., Ville St-Michel
Northern Resins Limited	37 St-Viateur St., Berthierville
Ornamold Ltd.	2990 Sartelon St., Montreal
Payge Manufacturing Ltd.	2300 Florian St., Montreal 24
Pharal Plastics Inc.	320, rue Elm, St-Lambert
Plastex Industries Ltd.	10125 Hébert St., Montréal-Nord
Plastic Enterprises Ltd.	642 de Courcelle St., Montreal 30
Plasticon Inc.	10461 Henault St., Montréal-Nord

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Quebec - Concluded:	
Plasti-Lam, Inc.	13, rue des-Saules-est, Québec
Plastiseal Inc.	781 William Street, Montreal 3
Plastube Ltd.	420 Edouard Street, Granby
Poly-Aid Co. Reg'd.	7837 Outremont Ave., Montreal
Precision Plastic Moulds Reg'd.	11795 Ethier St., Montréal-Nord
Produits Duvernay Ltée	10421 Ethier St., Montréal-Nord
Produits Thiroco	10276, rue des Récollets, Montréal-Nord
Puritan Products Ltd.,	10419 Ethier St., Montréal-Nord
Quebec Plastics & Plating Industries Ltd.	8645 - 8th Ave., Ville St-Michel
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
Rouette Glass & Plastic Cie, Ltée.	75 Easter Place, Ville St-Pierre
Rubea Plastics Ltd.	70 Mount Royal Ave. W., Montreal
St. John Plastics Ltd.	205 Seminaire Blvd., St-Jean
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 St., Montreal 11
Thermoset Plastics Ltd.	225 Harwood Blvd., Dorion
Telemans Inc.	5695, boul. des Grandes-Prairies, St-Léonard
Tremblay Fibreglass Specialty Inc.	505, ave. Dupont, Alma
Trepanier, J.P. Inc.	1066 St. Denis St., Sherbrooke
Tucker Plastic Products Ltd.	Coaticook
Tupperware Home Parties Ltd.	Cowansville
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
Ontario:	
ABC Blow Moulding Co. Ltd.	14 Racine Rd., Rexdale
Ackron Plastics Ltd.	33 Milvan Drive, Weston
Active Plastics Co. Ltd.	Quigley Rd., Hamilton
Aero Marine Industries Ltd.	5 Walker St., Oakville
Aladin Industries Inc.	5 McLachlan Dr., Rexdale
Alcore Fabricating Ltd.	307 Enford Rd., Richmond Hill
Allied Sign Letters Ltd.	361 King St. E., Toronto
Angle Plastic Foam Products	Dunnville
Aqua-Tops Limited	948 Walker Rd., Windsor
Architectural Plastics Ltd.	24 Milford Rd., Toronto
Astra Plastics Ltd.	58 Jarvis St., Toronto
Barringham Plastics Ltd.	Clarkson
Barry-Shea Plastics Ltd.	54 Osler St., Toronto
Beach Awning Co.	301 Crockett St., Hamilton
Beneke Industries Ltd.	1200 Renforth Drive, Rexdale
Biltex Tire Co. Ltd.	169 Kendal Ave., Toronto 4
Bishop Plastics	43 Dufferin St., Alliston
Brentwood Containers Ltd.	24 Ronson Dr. Rexdale
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., Scarboro
Canada Plastic Containers Ltd.	1200 Ellesmere Rd., Scarborough
Canadian Colloid Products Ltd.	985 St-Luke Rd., Windsor
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., Scarboro
Canadian Thermos Products Ltd.	2040 Eglinton Ave. E., Scarboro
Carroll Plastics	Stayner
Cellair Canada Limited	374 Fairall St., Ajax
Centri-Cast Ltd.	146 Bentworth Ave., Toronto
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
Creators (Canada) Ltd.	374 Dundas St., Woodstock
Crystophane Co of Canada Ltd.	880 Rageview Rd., Port Credit
Custom Plastic Covers Co.	41 Summitcrest Drive, Weston
Custom Plastics International Ltd.	887 D'Arby St., Cobourg
Cyanamid of Canada Ltd. (Skydome Products)	19 Haffs Road, Toronto 15
Daron Industries	Norman Rogers Airport, Kinston
Davidson Rubber Co. Ltd.	Port Hope
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
Devcon Canada Ltd.	22 Golden Gate Ct., Scarborough
Dickinson, Walter Co. Ltd.	34 Kem Rd., Don Mills
Directory Service	465 Davis Drive, Newmarket
Dominion Glass Co. Ltd. (Plastic Div.)	56 Index Rd., Etobicoke
Dominion Poly Products Ltd.	11 Le Page Court, Downsview
Dontar Construction Materials Ltd. (Arborite Division)	46 Hollinger Road, Toronto 16
Dontar Consumer Products Ltd.	255 Wicksteed Ave., Leaside, Toronto 17
Dor Seal Ltd.	25 Newbridge Rd., Toronto
Dow Chemical of Canada Limited	375 Symington Ave., Toronto 9
Dupont of Canada Ltd. (Polyethylene film plant)	Dunlop Drive, Whitby

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Ontario - Continued:	
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.	296 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., Scarboro
F-M Superfab Ltd.	377 Olivewood Rd., Toronto
Fabricated Plastics Co. Ltd.	70 Belfied Rd., Rexdale
Falcon Chemicals Ltd.	24 Canmotar Ave., Toronto
Fiberez of Canada Ltd.	Cornwall
Fiberplast Co.	1109 A Bay St., Toronto
Flex-A-Duct Limited	82 Signet Dr., Weston
Flexmaster Co. Ltd.	300 Enford Rd., Richmond Hill
Flint Mfg. & Sales Ltd.	399 Kennedy Rd., Scarborough
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
Gentil Plastics Ltd.	65 King St., Lindsay
Glasmoil Plastics Ltd.	30 Bermondsey Rd., Toronto 16
Graham Products Ltd.	Inglewood
Harbour Plastics & Manufacturing Ltd.	65 Broadview Ave., Toronto 8
Haugh's Products Ltd.	2301 Keele St., Toronto 15
Heather Plastics Ltd.	70 Belfield Rd., Rexdale
Humphrey-Cosburn Plastics Ltd.	Markham
Imco Container (Canada) Ltd.	Cooksville
Industrial Plastics Canada Ltd.	Fort Erie
Ironside, G.H. Plastic Products	Georgetown
Inservac (1965) Ltd.	23 Rainside Rd., Don Mills
Ives, V.C. Plastics	Port Perry
Jacobs Thompson Ltd.	89 Kenbar Dr., Weston
KBG Plastics Ltd.	777 Warden Ave., Scarboro
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
Laminated Component Supply Ltd.	16 Main St. N., Georgetown
Leco Industries Ltd.	Scarborough
Lido Industrial Products Ltd.	40 Queen Elizabeth Blvd., Toronto 18
Lou-Hat Plastics	87½ Ashley Street, Hamilton
Maple Leaf Plastics Limited	375 Danforth Rd., Scarborough
Marwal Plastics Ltd.	50 Spalding Drive, Brantford
McDougall Reinforced Plastics	1276 McDougall Ave., Windsor
Mermaid Plastics Industries	14 Darling Ave., Toronto 5
Merrygro Limited	Unionville
Metal Cladding of Canada (Div. of Metal Cladding Inc.)	Fort Erie
Midland Industries Ltd. (Midland Plastics Div.)	Elizabeth St. E., Midland
Mimico Extruders Ltd.	21 Windsor St., Mimico
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. S., Tecumseh
Monsanto Canada Limited:	
Foam Division	8th Ave. N., Woodbridge
Moulded Products Division	8th Ave. N., Woodbridge
Morenz Manufacturing	2575 Wharton Glenn Rd. S., Cooksville
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
Niagara Plastic Products Ltd.	Niagara Falls
Olsonite Co. Ltd.	1587 McDougall St., Windsor
Ontario Plastics Mfg.	89 Millwick Dr., Weston
Ontario Steel Products Co. Ltd.	Gananoque
Orion Plastics Ltd.	15 Oakland Ave., Weston
Peerless Plastics Ltd.	2827 Howard St., Windsor
Permali (Canada) Ltd.	137 Kipling Ave. S., Toronto 18
Petco Products	78 Mack Ave., Scarboro
Plasticap Limited	193 Bartley Drive, Toronto
Plastineer Mfg. Co.	1 Phoebe St., Toronto
Plastifoam Products	1918 Avenue Rd., Toronto
Plastic Panel Corp. Ltd.	100 Penn. Dr., Unit 8, Weston
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
R.B.R. Agencies	Stouffville
R.W. Plastics Ltd.	95 Milvan Dr., Weston

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Ontario - Concluded:	
Railway & Transport Insulation Ltd.	95 Portland St., Mimico
Ray Plastics Ltd.	15 TorYork Dr., Weston
Reach Plastics & Chemicals Ltd.	101 William St., Cornwall
Regent Containers Ltd.	30 Progress Ave., Scarborough
Repla Limited	557-8th Line, Oakville
Rigid Flex (Canada) Ltd.	3581 Dundas St. W., Toronto
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 Plastic Sales Ltd.	Lindsay
Scepter Mfg. Co. Ltd.	30 Cranfield Rd., Toronto
Shalimar Fabricators	92 Crockford Blvd., Scarborough
Shaw Flexible Tubes Ltd.	25 Bethridge Rd., Rexdale
Sheller Manufacturing Corporation (Canadian Div.)	253 Queen St. E., Brampton
Shirlite Manufacturing Co. Ltd., The	91 Whitney Place, Kitchener
Skosufam Industries Ltd.	171 Surrey St. E., Guelph
Smith and Stone Ltd. (Plastics Division)	Georgetown
Smithers of Canada Ltd.	376 Fairall St., Ajax
Somerville Plastics Ltd.	376 Orenda Pk., Bramalea
Spaulding Fibre of Canada Ltd.	70 Coronet Rd., Toronto 18
Sterling Plastic Manufacturing Co. Ltd.	38 Advance Rd., Toronto 18
Stor-Aid of Canada Ltd.	45 Forythe St. S., Oakville
Stradwick Industries Ltd.	379 Highbury Ave., London
Strong Plastic Sales Ltd.	18 Curity Ave., Toronto 16
Syncon Products	Thornhill
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
Tilco Plastics Limited	475 Parkhill Rd., Peterborough
Tip Top Products Ltd.	181 Yonge St., Newmarket
Toronto Plastics Ltd.	15 Mobile Drive, Toronto 16
Triangle Plastics Ltd.	240 Glendale Ave., St. Catharines
Triton 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 Kenbar Dr., Weston
Union Carbide Canada Ltd.	8100 Keele St., Maple
Universal Creations	171 McCormack St., Toronto
Ursini Plastics	15 Main St. N., Uxbridge
Vinamat Ltd.	17 Colville Rd., Toronto
Vina-Rus (Canada) Ltd.	379 Highbury Ave., London
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, Scaboro
Whitney Plastics Ltd.	131 Whitney Place, Kitchener
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
Wulley, Glenn S. & Co. Ltd.	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
Zeus Manufacturing Ltd.	4242 Dundas St. W., Toronto
Manitoba:	
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
Northwest Design & Fabrication Ltd.	851 Regent Ave. W., Transcona
Perma Plastics Co.	172 Lansdowne Ave., Winnipeg
Plastic Film (Manitoba) Ltd.	114 Market Ave. E., Winnipeg 2
Plastiam 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. Waverly St. & Sommerville Ave., Fort Garry
Viking Laminates Ltd.	506 Bradford St., Winnipeg
Saskatchewan:	
Grandview Industries Ltd.	Weyburn
Prairie Plastics Ltd.	Swift Current
Remco Plastic Products	1075 McDonald St., Regina
Alberta:	
Acrylic Plastics Limited	Hanger 16, Municipal Airport, Edmonton
Alberta Plastic Laminators	7539 - 104 St., Edmonton
Alberta Polytubes Ltd.	12105 - 120th Ave., Edmonton
Building Products of Canada Ltd.	Highway 16 A East, Edmonton

List of Establishments classified to this Industry, 1965 - Concluded

Name	Location
Alberta - Concluded:	
Century Fiberglass Ltd.	4112 - 16 A St. S.E., Calgary
Co-Polymer Research & Development Co. Ltd.	4815 - 82nd Ave., Edmonton
Edmonton Plastics Ltd.	9850 - 62nd Ave., Edmonton
Elastomer Products (Calgary) Ltd.	4115 MacLeod Trail, Calgary
Foothills Plastic Industries Ltd.	227 - 35th Ave. N.E., Calgary
J.C. Mfg. Co. Ltd.	15845 - 112th Ave., Edmonton
Layfield Plastics Ltd.	121 - 121st Ave., Edmonton
Marpak Plastics Ltd.	12105 - 120th Ave., Edmonton
Plastic Platemakers Ltd.	10056 - 109th 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
British Columbia:	
B.C. Plastic Industries Ltd.	253 #5 Rd., Richmond
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
Della Foam Board Insulation Ltd.	4907 Chisholm St., Ladner
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
Impac Containers Western (Div. of Somerville Industries Ltd.)	242 East Esplanade Ave., North Vancouver
Industrial Coatings Ltd.	237 East 4th Ave., Vancouver 10
J & C Mfg. Co. Ltd.	1668 - 1st Ave., Vancouver
Kwiklok Corporation	311 Coronation St., Kelowna
Listo Products Ltd.	1716 East Hastings St., Vancouver
Martne Plastics Ltd.	678 Derwent Way, New Westminster
Newmarket Plastic & Mfg. Ltd.	611 Front St., New Westminster
Pacific Plastics of Canada Ltd.	650 Industrial Ave., Vancouver 4
Sutherland Plastics & Manufacturing	241 Russell St., Victoria
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 Plastics Ltd.	882 East Cordova St., Vancouver 4
Union Carbide Canada Ltd. (Visking Division)	13221 - 76th Ave., Newton
Versatile Manufacturing Co.	5447 Rocky Point Rd., Victoria

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

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

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

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

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

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

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

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

Employees

(a) Production and related workers — Manufacturing activities

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

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

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

(c) Administrative and office employees

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

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

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

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

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

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

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

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

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

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

(b) By non-manufacturing activities

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

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

(c) By Total activities

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

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