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MANUFACTURERS OF PLASTICS
AND SYNTHETIC RESINS
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A - Annual

O - Occasional

M - Monthly

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MANUFACTURERS OF PLASTICS AND SYNTHETIC RESINS

1963

Data presented in this report under the heading of Plastics and Synthetic Resins reflect implementation of the revised Standard Industrial Classification and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its industry statistics compilations—see items “Standard Industrial Classification” and “Establishment” in the Explanatory Notes section of this report.

For statistical purposes the industry titled Manufacturers of Plastics and Synthetic Resins in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing synthetic resins in such forms as powders, granules, flakes, liquids or simple sheets. This industry also includes establishments primarily engaged in manufacturing transparent cellulose film; however, establishments primarily engaged in making film as such from purchased resins are classified in the Plastic Fabricators, NES industry. Not all producers of synthetic resins are included in this industry as some concerns make synthetic resins as secondary or minor products, or as intermediates for the further use of the producer, e.g., in the manufacture of laminates, paints, etc. Statistics relating to the latter have been included in the appropriate industries which are reviewed in separate bulletins.

SYMBOLS

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

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

TABLE 1 A. Principal Statistics classified by Province, 1962 and 1963

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
1961													
Totals	31	1,957	4,400	10,090	3,656	60,259	111,345	48,104	-	-	3,466	19,356	51,879
1962													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	7	922	2,075	5,085	1,958	27,130	58,930 ^f	30,170 ^f	-	-	1,666	9,339	32,286 ^f
Ontario	14	711	1,592	3,493	1,074	25,774	41,464	15,508	-	-	1,227	6,853	17,039
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	4	322	721	1,909	781	12,843	27,678	14,154	-	-	616	3,896	14,775
British Columbia	3												
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	28	1,955	4,387	10,487	3,814	65,747	128,071 ^f	59,832 ^f	-	-	3,509	20,088	64,100 ^f
1963													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	7	944	2,090	5,325	1,987	28,261	61,550	30,942	-	-	1,674	9,611	32,606
Ontario	15	762	1,734	3,906	1,178	29,180	47,249	17,254	-	-	1,302	7,395	19,048
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	4	330	716	1,893	795	12,971	30,287	15,838	-	-	644	3,978	16,216
British Columbia	3												
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	29	2,036	4,540	11,125	3,960	70,412	139,085	64,033	-	-	3,620	20,984	67,870

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
1962													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 " 49,999	5	16	39	79	15	863	1,448	579	-	-	40	234	611
50,000 " 99,999													
100,000 " 199,999													
200,000 " 499,999													
500,000 " 999,999													
1,000,000 " 4,999,999	4	44	86	161	36	1,862	2,728	799	-	-	65	335	860
5,000,000 and over	10	211	464	1,051	272	14,676	22,212	7,640	-	-	430	2,376	9,425
Head offices, sales offices and auxiliary units	9	1,684	3,798	9,195	3,490	48,346	101,682 ^f	50,813 ^f	-	-	2,895	16,540	53,232 ^f
Totals	28	1,955	4,387	10,487	3,814	65,747	128,071 ^f	59,832 ^f	-	-	3,509	20,088	64,100 ^f
1963													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 " 49,999	5	23	47	89	12	747	1,328	572	-	-	45	228	613
50,000 " 99,999													
100,000 " 199,999													
200,000 " 499,999													
500,000 " 999,999													
1,000,000 " 4,999,999	4	26	55	103	23	1,756	2,521	728	-	-	44	205	725
5,000,000 and over	11	261	572	1,318	341	17,099	25,455	8,149	-	-	500	2,774	10,082
Head offices, sales offices and auxiliary units	9	1,726	3,866	9,615	3,584	50,811	109,780	54,585	-	-	2,940	17,143	56,488
Totals	29	2,036	4,540	11,125	3,960	70,412	139,085	64,033	-	-	3,620	20,984	67,870

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
1962													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 " 49,999	7	32	69	124	29	1,759	2,718	942	-	-	66	366	972
50,000 " 99,999													
100,000 " 199,999													
200,000 " 499,999													
500,000 " 999,999													
1,000,000 " 4,999,999	3	39	82	178	22	2,162	2,856	638	-	-	51	277	700
5,000,000 and over	6	103	224	480	128	8,023	11,822	3,667	-	-	225	1,171	4,217
Head offices, sales offices and auxiliary units	8	773	1,739	3,858	1,164	28,857	46,247	16,920	-	-	1,397	7,544	18,638
Totals	4	1,008	2,272	5,846	2,471	24,947	64,427 ^f	37,665 ^f	-	-	1,891	10,128	39,601 ^f
Totals	28	1,955	4,387	10,487	3,814	85,747	128,071 ^f	59,832 ^f	-	-	3,509	20,088	64,100 ^f
1963													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 " 49,999	8	64	135	290	71	3,064	4,191	1,031	-	-	113	581	1,463
50,000 " 99,999													
100,000 " 199,999													
200,000 " 499,999													
500,000 " 999,999													
1,000,000 " 4,999,999	4	55	118	205	36	1,949	3,071	1,103	-	-	74	316	1,133
5,000,000 and over	5	84	178	426	100	7,756	11,317	3,538	-	-	194	1,059	3,959
Head offices, sales offices and auxiliary units	8	815	1,861	4,251	1,271	33,253	52,865	18,687	-	-	1,434	8,039	20,246
Totals	4	1,018	2,248	5,952	2,482	24,391	67,640	39,675	-	-	1,714	10,354	41,196
Totals	29	2,036	4,540	11,125	3,960	70,412	139,085	64,033	-	-	3,620	20,984	67,870

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
1962													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 " 49,999	8	43	91	158	37	2,089	3,246	1,103	-	-	81	429	1,174
50,000 " 99,999													
100,000 " 199,999													
200,000 " 499,999													
500,000 " 999,999													
1,000,000 " 4,999,999	8	831	1,879	4,207	1,400	33,477	54,580	20,532	-	-	1,487	8,182	21,732
5,000,000 and over	3	921	2,070	5,351	2,219	18,581	53,406 ^f	33,082 ^f	-	-	1,525	9,052	34,600 ^f
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	79	601	(29)
Totals	28	1,955	4,387	10,487	3,814	65,747	128,071^f	59,832^f	-	-	3,509	20,088	64,100^f
1963													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	7	28	59	122	24	1,998	2,892	862	-	-	62	335	895
25,000 " 49,999													
50,000 " 99,999													
100,000 " 199,999													
200,000 " 499,999													
500,000 " 999,999	4	55	118	205	36	1,949	3,071	1,103	-	-	74	316	1,133
1,000,000 " 4,999,999	6	120	254	594	147	8,822	12,616	3,707	-	-	245	1,305	4,527
5,000,000 and over	8	815	1,861	4,251	1,271	33,253	52,865	18,687	-	-	1,434	8,039	20,246
Head offices, sales offices and auxiliary units	4	1,018	2,248	5,952	2,482	24,391	67,640	39,675	-	-	1,714	10,354	41,106
...	...	...	...	...	...	...	...	...	...	...	91	635	(38)
Totals	29	2,036	4,540	11,125	3,960	70,412	139,085	64,033	-	-	3,620	20,984	67,870

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
1962													
Under 5 employed	-	-	-	-	-	-	-	-	-	-	-	-	
5- 14 employed	7	29	69	152	21	2,403	3,375	959	-	-	59	351	990
15- 49 "	8	128	271	541	146	7,700	11,503	3,645	-	-	230	1,170	4,189
50- 99 "	5	187	398	882	228	12,016	17,711	5,824	-	-	339	1,869	7,124
100-199 "	3	319	715	1,773	687	12,327	21,664	9,386	-	-	520	3,183	9,938
200-499 "	5	1,292	2,935	7,140	2,733	31,301	73,818 ^f	40,017 ^f	-	-	2,282	12,913	41,888 ^f
500 employed and over													
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	79	601	(29)
Totals	28	1,955	4,387	10,487	3,814	65,747	128,071^f	59,832^f	-	-	3,509	20,088	64,100^f
1963													
Under 5 employed	-	-	-	-	-	-	-	-	-	-	-	-	-
5- 14 employed	8	35	75	150	27	2,123	3,242	1,084	-	-	71	372	1,117
15- 49 "	7	117	248	516	119	7,773	11,582	3,753	-	-	208	1,043	4,139
50- 99 "	5	158	351	844	230	9,706	14,480	4,611	-	-	310	1,791	6,163
100-199 "	3	327	730	1,778	586	12,495	20,054	7,175	-	-	471	2,781	7,610
200-499 "	6	1,399	3,136	7,837	2,997	38,315	89,726	47,410	-	-	2,469	14,362	48,878
500 employed and over													
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	91	635	(38)
Totals	29	2,036	4,540	11,125	3,960	70,412	139,085	64,033	-	-	3,620	20,984	67,870

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

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
1962													
Individual ownerships	-	-	-	-	-	-	-	-	-	-	-	-	
Partnerships	-	-	-	-	-	-	-	-	-	-	-	-	
Incorporated companies	28	1,955	4,387	10,487	3,814	65,747	128,071 ^f	59,832 ^f	...	...	3,430	19,486	64,128 ^f
Cooperatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	79	601	(29)
Totals	28	1,955	4,387	10,487	3,814	65,747	128,071^f	59,832^f	-	-	3,509	20,088	64,100^f
1963													
Individual ownerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies	29	2,036	4,540	11,125	3,960	70,412	139,085	64,033	...	...	3,529	20,350	67,908
Cooperatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	91	635	(38)
Totals	29	2,036	4,540	11,125	3,960	70,412	139,085	64,033	-	-	3,620	20,984	67,870

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
\$'000						
Output						
1. Shipments and other revenue	128,071 ^f	139,085	35,243	34,849	163,314	173,934
Inventories - Goods of own manufacture:						
Add closing - Goods in process	1,627	1,783	...	...	1,627	1,783
Finished goods	9,302	8,876	...	...	9,302	8,876
Less opening - Goods in process	2,133	1,627	...	...	2,133	1,627
Finished goods	7,474	9,711	...	...	7,474	9,711
2. Net inventory change	1,322	(679)	...	...	1,322	(679)
3. Gross output (1 + 2)	129,393 ^f	138,406	35,243	34,849	164,636	173,255
Input						
4. Purchases of goods not of own manufacture .....	...	...	30,807	30,365	30,807	30,365
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	2,186	2,620	2,186	2,620
Less closing .....	...	...	2,620	2,463	2,620	2,463
5. Cost of goods sold (not of own manufacture) .....	...	...	30,373	30,522	30,373	30,522
6. Materials, supplies, components and semi-processed goods	65,747	70,412	603	490	66,350	70,902
7. Fuel and electricity	3,814	3,960	...	...	3,814	3,960
8. Gross input (5 + 6 + 7)	69,561	74,372	30,976	31,012	100,537	105,384
Census value added (3 - 8)	59,832^f	64,033	4,268	3,837	64,100^f	67,870

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Admini- trative and office		Sales and distribution		Total employees		Production and related workers		Admini- strative and office	Sales and distrib- ution	Total salaries and wages
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
	number										\$'000				
1962															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	906	16	12	-	539	133	48	12	1,505	161	5,085	63	3,842	349	9,339
Ontario	687	24	4	-	282	97	95	38	1,068	159	3,493	16	2,422	922	6,853
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
British Columbia	320	2	4	-	212	47	28	3	564	52	1,909	24	1,752	211	3,896
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	1,913	42	20	-	1,033	277	171	53	3,137	372	10,487	103	8,016	1,482	20,088
1963															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	928	16	14	-	535	125	43	13	1,520	154	5,325	76	3,846	363	9,611
Ontario	736	26	14	2	282	98	102	42	1,134	168	3,906	86	2,439	963	7,395
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
British Columbia	324	6	8	-	226	46	30	4	588	56	1,893	51	1,815	218	3,978
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	1,988	48	36	2	1,043	269	175	59	3,242	378	11,125	214	8,100	1,545	20,984

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

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	1,855	41	1,922	46
February	1,860	41	1,935	45
March	1,868	41	1,949	45
April	1,895	41	1,956	48
May	1,937	44	2,025	48
June	1,983	45	2,050	49
July	1,988	47	2,051	51
August	1,977	44	2,039	50
September	1,892	43	1,988	51
October	1,903	41	1,956	48
November	1,916	43	1,995	47
December	1,913	42	1,993	47
Average for establishments reporting monthly detail (collected only for large establishments) ..	1,913	42	1,988	48
Average for small establishments (only annual averages collected) .....	...	...	...	...
Average for all establishments	1,913	42	1,988	48

TABLE 4. Industry Inventories, 1963

Province	Manufacturing			Total manufacturing	Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture		Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-
Quebec	2,630	1,267	4,318	8,215	1,319	9,534
Ontario	2,667	267	3,314	6,248	819	7,067
Manitoba	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-
Alberta	-	-	-	-	-	-
British Columbia	1,016	94	2,079	3,188	482	3,671
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	6,314	1,627	9,711	17,652	2,620	20,272
Closing:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-
Quebec	2,502	1,299	3,925	7,726	1,113	8,839
Ontario	3,135	381	3,583	7,078	880	7,958
Manitoba	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-
Alberta	-	-	-	-	-	-
British Columbia	993	123	1,368	2,483	470	2,953
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	6,630	1,783	8,876	17,288	2,463	19,751

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

Description	1962		1963	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton 29,543	298	38,122	367
(b) Imported	" 5,197	60	100	2
Sub-bituminous coal (from Alberta mines only)	" -	-	-	-
Anthracite coal	" -	-	-	-
Lignite coal	" -	-	-	-
Coke	" -	-	-	-
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 225,896	70	211,528	74
Fuel oil including kerosene or coal oil	" 9,059,873	646	9,656,948	710
Wood	cord -	-	-	-
Gas:				
(a) Liquefied petroleum gases	Imp. gal. 40,748	10	44,297	11
(b) Other manufactured gas	M cu.ft. -	-	-	-
(c) Natural gas	" 3,976,584	667	3,885,227	690
Other fuel .....	...	10	...	48
Electricity purchased	kwh. 372,164,829	1,724	336,051,053	1,731
Steam purchased .....	...	327	...	327
2. Estimate for small establishments:				
Fuel and electricity .....	...	-	...	-
3. All establishments:				
Total fuel and electricity used .....	...	3,814	...	3,960

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

Description	1962		1963		
	Quantity	Cost	Quantity	Cost	
		\$'000		\$'000	
1. Materials used:					
Acetic anhydride	lb.	33,466	6	3,709	1
Acid - Adipic	"	870,593	234	1,196,719	300
Fatty - Stearic	"	87,417	15	112,252	21
Other fatty acids	"	2,336,296	297	2,192,045	266
Formic	"	235,002	30	287,271	41
Hydrochloric (muriatic), 100%	"	180,145	8	301,404	11
Sulphuric, all grades, including oleum (as 100%)	"	44,849,827	579	47,151,940	605
Other	"	554,538	116	688,139	126
Alcohol - Butyl (including isobutanol)	"	2,890,444	469	3,357,847	510
Ethyl	Imp. gal.	109,329	101	135,413	138,821
Isopropyl	lb.	1,708,041	182	2,735,171	264
Methyl	Imp. gal.	2,268,852	730	2,545,772	845
Other	lb.	2,183,268	327	1,841,716	244
Casein	"	288,853	61	289,809	63
Chlorine, liquid	"	483,369	7	478,394	3
Cresol (including cresylic acid)	"	1,438,322	236	1,472,892	252
Dibutyl phthalate	"	458,825	123	469,829	114
Dyes and pigments	"	...	603	...	494
Ethyl acetate	lb.	1,058,727	121	1,023,359	114
Formaldehyde (100% solids content)	"	21,848,403	2,153	23,610,275	2,338
Glycerine	"	3,638,189	900	3,709,886	851
Glycols - Ethylene	"	6,353,036	865	6,514,442	778
Diethylene	"	669,726	106	713,258	111
Propylene	"	1,155,272	163	2,193,287	424
Other grades	"	374,767	68	512,206	94
Maleic anhydride	"	626,577	104	497,805	82
Oils, vegetable - Castor	"	998,065	165	1,367,670	216
Chinawood	"	172,565	56	175,063	79
Linseed	Imp. gal.	138,219	226	154,795	248
Soya bean	lb.	7,688,521	948	9,112,489	1,096
Tall	"	859,440	89	689,823	73
Other vegetable oils	"	302,274	58	515,551	95
Pentaerythritol	"	1,547,453	434	1,899,688	532
Phenol	"	26,746,436	3,712	30,470,481	3,677
Phthalic anhydride	"	8,284,985	948	9,811,866	1,085
Plasticizers (not elsewhere specified)	"	3,748,497	901	5,868,782	1,021
Polyethylene type resin (all forms; for compounding only)	"	18,254,250	3,680	19,120,125	3,672
Resins, other (all forms; for compounding only)	"	3,670,638	706	5,274,442	927
Resorcinol	"	254,777	172	362,773	239
Sodium hydroxide (caustic soda)	"	29,665,838	901	30,063,392	914
Styrene monomer	"	27,856,933	2,921	32,292,554	3,370
Toluene (toluol)	"	758,922	32	1,414,651	395
Urea	"	9,200,047	476	9,709,885	471
Vinyl monomers - Vinyl acetate type	"	4,276,041	651	4,766,610	704
Other vinyl monomers	"	28,446,377	2,684	34,555,892	3,168
Xylene (xylol)	"	1,962,386	83	2,640,478	169
All other materials and components used	"	...	28,369	...	29,911
2. Containers and other packaging materials and supplies used					
		...	2,333	...	2,608
3. Operating, maintenance and repair supplies used (excluding fuel)					
		...	5,637	...	5,803
4. Amount paid out to others for work done on materials owned by establishments.....					
		...	960	...	848
Totals .....		...	65,747	...	70,412

TABLE 7. Shipments of Selected Goods of Own Manufacture - All Industries
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Synthetic Resins,¹ all Types, 1954 - 63

Year	Value
	\$'000
1954	36,647
1955	49,430
1956	50,530
1957	54,930
1958	66,441
1959	73,827
1960	88,178
1961	91,975
1962	96,709
1963	116,960

¹ (a) Includes casein-type, vinyls, polystyrene, alkyds, phenol-formaldehyde, urea-formaldehyde, sodium carboxymethyl-cellulose, polyethylene, cellulose acetate, nylon flake, etc.

(b) Includes only resins or equivalent forms made for sale as there is no adequate record of resins made for own or captive use.

B. Specified Synthetic Resins,¹ 1962 and 1963

Type	1962		1963	
	Quantity	Value	Quantity	Value
	M lbs.	\$'000	M lbs.	\$'000
Alkyd (excluding polyester)	'	6,868	'	8,508
Alkyd polyester	'	2,721	'	3,217
Phenol-formaldehyde	'	10,242	'	10,427
Urea-formaldehyde	'	2,467	'	2,606
Vinyl chloride ²	49,505	10,624	53,504	10,670
Polystyrene ²	60,747	11,574	79,295	14,628
Polyethylene	135,447	21,894	156,333	33,570

¹ Does not include resins made for own or captive use such as alkyds in paints, phenol-formaldehyde in laminates; however, phenol-formaldehydes and urea-formaldehydes sold as glues are included in the relevant categories.

² These resins are marketed, for the most part, in solution form of varying concentration and may be reported in terms of gross weight of solution or net resin content. Under these circumstances it is difficult to develop meaningful quantity data. For this reason quantity figures are not shown.

³ Figures shown in the quantity column for these categories reflect the weight of the resins in all forms including equivalent forms such as sheet, foamable pellets, moulding compounds, etc. and, therefore, totals shown are not necessarily indicative of total net weight of resin sold.

List of Establishments classified to This Industry, 1963

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

Name	Location
Quebec:	
Canadian Plastics Limited	1850 St. Antoine St., Montreal 3
Carlew Chemicals Limited	St-Rémi-de-Napierville
Du Pont Of Canada Limited	Shawinigan Falls
Monsanto (Canada) Limited	Ville la Salle
Reichhold Chemicals (Canada) Limited	Ste-Thérèse-de-Blainville
Trilon Chemical Limited	Lachine
Union Carbide Canada Ltd.	10555 Metropolitan Blvd., Montreal East

List of Establishments classified to This Industry, 1963 - Concluded

Name	Location
Ontario:	
Bakelite Company, Division of Union Carbide Canada Limited	621 Dundas St. E., Belleville
Borden Chemical Co. (Canada) 1962 Ltd., The	North Bay
Canadian General Electric Co. Ltd.	940 Lansdowne Ave., Toronto 4
Du Pont of Canada Ltd.	Corunna
Goodrich, B.F. Chemical Co.	Welland
Hardifoam Products Ltd.	Lakeshore Rd., Toronto
Hysol Canada Limited	44 Beechwood Dr., Toronto
Kayson Plastics and Chemicals Limited	Preston
Perkins Glue Co. of Canada Limited.....	629 Queen St. S., Kitchener
Polyresins Limited.....	44 Beechwood Dr., Don Valley, Toronto
Reichhold Chemicals (Canada) Limited	Weston
Rohm and Haas Company of Canada Ltd.	West Hill
Schenectady Varnish Canada Ltd.	309 Comstock Rd., Scarborough
T C F of Canada Ltd.	Cornwall
Varcum Chemical Division of Reichhold Chemicals Ltd.	Lindsay
Alberta:	
Canadian Chemical Co. Ltd.	P.O. Box 99, Edmonton
Canadian Industries Limited.....	Highway 16 A., Edmonton
Monsanto Canada Limited	Clover Bar
Pacific Resins Ltd.	156th Street and 125th Avenue, Edmonton
British Columbia:	
Monsanto Canada Limited	1550 W. 75th St., Vancouver 14
Pacific Resins Ltd.	Keary St., New Westminster
Reichhold Chemicals (Canada) Limited	Port Moody

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

The results of the Census are presented in some 140 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures: (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the various 1963 reports reflect the complete implementation of these changes and enable comparisons to be made with the years 1961 and 1962. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the

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

Employees

(a) Production and related workers - Manufacturing activity

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

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

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

(c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers,

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

Salaries and wages refer to gross earnings of employees before deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any

other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity are collected by means of the Commodity questionnaire referred to earlier. Such shipments together

with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

Figures are compiled by deducting the cost of materials and fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process).

(b) By non-manufacturing activities

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

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

(c) By Total activities

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



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