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# THE PRIMARY PLASTICS INDUSTRY 1959





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### **PUBLICATIONS**

The results of the annual Census of Industry are published by the Dominion Bureau of Statistics in a series of industry reports which are released each year as the compilations are completed. Reports for industries classified to the **Chemicals and Allied Products** Major Group are listed below, along with current and annual publications of related interest. Similar reports are issued for other industries. A complete catalogue of publications of the Bureau is available on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, or from the Queen's Printer, Ottawa.

A -	- Annual	B – Biennial	M = Monthly	S.C Special Compilation	
Catalogue number			Title		Price
$\begin{array}{r} 46 - 202 \\ 46 - 203 \\ 46 - 204 \\ 46 - 205 \\ 46 - 206 \\ 46 - 208 \\ 46 - 209 \\ 46 - 210 \\ 46 - 211 \\ 46 - 213 \\ 46 - 214 \\ 46 - 215 \end{array}$	Acids, Alka Adhesives I Coal Tar Di Compressed Fertilizers I Inks Industr Medicinal an Paints, Varn Primary Pla Polishes an Soaps, Wash Toilet Prepa Miscellaneo	lies and Salts Indu ndustry (A) stillation Industry Gases Industry (A) Industry (A) y (A) of Pharmaceutical nishes and Lacque stics Industry (A) d Dressings Industry ing Compounds an arations Industry (A) us Chemical Produ	(A) (A) Preparations Indust rs Industry (A) try (A) d Cleaning Preparat A) 	(A)	50 50 25 50

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## EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1959 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. An annual Census of Manufactures has been carried out by the Dominion Bureau of Statistics since 1916.

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1959 are as follows:

### **Period Covered**

Firns are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

### Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory. Sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees. wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

### Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, warehousing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc., are not included. Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

### Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

### **Cost of Fuel and Electricity**

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

### Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants of reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

### **Factory Shipments**

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

### Inventories

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

### Value Added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.<sup>1</sup>

### Standard Industrial Classification

The Standard Industrial Classification Manual, prepared by the Dominion Bureau of Statistics, provides for 135 three-digit industries in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

### Short Forms

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

The general request for the principal items of products on the short form for 1959 permitted a fairly complete compilation of the detailed quantities and values of commodity shipments. In the case of the detailed quantities and values of materials, fuel and electricity, however, and the monthly distribution of production workers, only the totals of data actually reported on the intermediate and long forms are contained in published reports and no attempt was made as in past years to estimate the generally small proportion of individual totals represented by detailed items omitted from the short forms.

The new approach has relieved an additional 12,000 establishments from filling out the regular long form. Establishments now receiving the short form number in excess of 20,000 and account for more than 54 per cent of the total number of establishments and a little more than 3 per cent of the total value of shipments.

<sup>&</sup>lt;sup>1</sup> To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other husinesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, Survey of Production.

## THE PRIMARY PLASTICS INDUSTRY 1959

The value of factory shipments in 1959 reported by firms in the Primary Plastics Industry in Canada amounted to \$103,538,744 an increase of 5.9 per cent over the 1958 total of \$97,802,453.

This industry covers the operations of establishments engaged chiefly in the manufacture of synthetic resins in the forms of rods, sheets, tubes, granules or liquids for use in further manufacture. Included as well are firms manufacturing transparent cellulose film and certain producers of laminates who make their own synthetic resins. Not all producers of synthetic resins were included in this group as some concerns made synthetic resins as secondary, or minor products, or as intermediates for the further use of the producers. Statistics relating to the latter have been included in the appropriate industries which are reviewed in separate bulletins. Separate figures for many of the synthetic resin types made in Canada cannot be published as for the most part they were made by only one or two firms; however, figures for several types available for publication are shown in Table 5 while a special

compilation which gives a fairly good summary of the total output of synthetic resins, as gathered up from all industries, is shown in Table 4. A list of of the products made by the factories in this group is shown in the directory which appears at the back of this bulletin.

Note: Due to lack of inventory data, figures for value added by manufacture prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity from the total value of factory shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouse.

Year	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture <sup>1</sup>	Gross selling value of products <sup>1</sup>
	nun	nber			dollars		
1948	12	1, 149	2, 770, 529	331,932	7, 630, 498	8, 478, 317	16, 440, 747
1949	14	1, 286	3, 496, 087	461, 318	10, 897, 184	9,663,717	21, 022, 219
1954	22	2,808	11, 190, 653	1,685,824	30,973,562	26, 892, 324	58, 881, 800
1955	23	3,036	12, 332, 507	1, 490, 621	40, 264, 982	33, 760, 502	75, 052, 166
1956	25	3,260	13, 855, 172	1,703,084	46,911,807	34, 886, 821	82, 738, 552
1957	29	3,443	15, 709, 733	1,995,912	48,088,585	42, 475, 576	91, 836, 820
1958							
Quebec	10	1,933	9, 294, 540	1,104,559	19,843,819	16,632,328	37, 319, 695
Ontario	16	917	4, 109, 114	1, 238, 239	22, 817, 341	14, 366, 404	38, 526, 771
Alberta	4	496	2, 431, 585	449,958	5,778,077	9, 141, 852	15, 884, 012
British Columbia	4	89	419,992	39, 299	3, 652, 444	2, 425, 065	6,071,975
Canada	34	3, 435	16, 255, 231	2, 832, 055	52, 091, 681	42, 565, 649	97, 802, 453
1959							
Quebec	10	1,826	9, 105, 775	1, 148, 045	20, 163, 606	15, 892, 303	37, 558, 206
Ontario	17	1,042	4, 943, 650	1, 580, 411	26, 278, 062	15, 429, 499	42, 755, 742
Alberta	4	502	2, 539, 266	561,966	7,868,774	10, 417, 997	17, 642, 113
British Columbia	3	99	491, 299	39,673	3, 492, 493	2,039,368	5, 582, 683
Canada	34	3, 469	17, 079, 990	3, 330, 095	57, 802, 935	43, 779, 167	103, 538, 744

### TABLE 1. Principal Statistics of the Primary Plastics Industry, 1948-59

<sup>1</sup> See note to text.

Note: Separate statistics for this industry were not compiled before 1947.

Province	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
		dol	lars	
Opening:				
Quebec	2, 222, 408	739, 784	2,670,820	5,633,012
Ontario	2,571,013	409, 489	1, 911, 788	4, 892, 290
Alberta	1, 540, 181	38, 173	817, 638	2, 395, 992
British Columbia	230, 107	1, 441	154, 140	385,688
Canada	6, 563, 709	1, 188, 887	5, 554, 386	13, 306, 982
Closing:				
Quebec	2,491,456	338, 282	2,718,070	5, 547. 808
Ontario	3,081,140	440, 260	2, 413, 247	5, 934, 647
Alberta	1, 597, 426	71, 439	1,990,996	3, 659, 861
British Columbia	196,997	611	143,821	341, 429
Canada	7, 367, 019	850, 592	7, 266, 134	15, 483, 745

### TABLE 2. Inventories,<sup>1</sup> 1959

<sup>1</sup> Book value of all manufacturing inventories owned and held at plant and plant warehouses.

Note: (1). Beginning with 1954, information on the value of year-end inventory holdings at plant and plant ware-houses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Primary Plastics Industry for the year under review are shown in the above table. (2). The opening inventory for 1959 does not necessarily agree with the closing inventory for 1958 because of revisions, such as the addition of new plants, the transfer of plants to other industries and plants going out of business, etc. However, the value added figures for the previous year have not been recalculated to allow for the revisions mentioned above.

Materials		19	1958		1959	
		Quantity	Cost at works	Quantity	Cost at works	
and the second sec			\$		\$	
Acetic anhydride	lb.	135,062	20,872	105,480	13, 502	
Acid - Adipic	**	793, 252	251,427	948,652	296,886	
Faity-Oleic		3, 507	583	4.543	792	
Stearic		44, 982	6,786	53,619	6,927	
Other fatty acids		669,030	92, 415	617,723	136,168	
Formic		129,686	17,256	107,565	15,613	
Hydrochloric (muriatic), 100%	6.6	68,959	3,686	213,667	8,731	
Sulphuric, all grades, including oleum (as 100%).		35, 549, 973	514.142	38, 781, 711	536, 195	
Other		19,645,606	2,023,784	26, 514, 591	2, 838, 586	
Alcohol - Ethyl		18,357	17,771	29,942	31,453	
Isopropyl		995, 707	107,267	680, 241	73,166	
Methyl		1,335,901	440, 934	1, 443, 221	472,957	
Other		3,763,553	549,172	4, 795, 375	773, 496	
Casein		372,600	98,651	282, 486	68, 430	
Chlorine, liquid		533, 513	17, 113	560, 254	18,932	
Cresol (including cresylic acid)		720, 456	105, 112	1,262,121	167,135	
Dibutyl phthalate		454,031	131,465	441, 810		
Dyes and pigments		454,051	1,043,016		125,073 877,509	
Ethyl acetate		829,050 16,655,147	104,245	1,203,055	138,708	
Formaldehyde (100% solids content)			1,703,014 <sup>r</sup>		1,623,491	
Glycerine		3,735,910	1, 125, 786	3, 429, 811	1,024,779	
Glycols – Ethylene		5, 387, 498	807,306	5, 498, 600	813,770	
Diethylene		86,048	15,333	242,556	43,208	
Other grades		694, 614	109,455	1, 224, 456	192, 559	
Hydrogen peroxide, 100%						
Maleic anhydride		266,620	67,777	323,618	103,277	
Oils, vegetable - Castor		827, 296	130, 366	64, 833	12,686	
Chinawood		215, 795	34,278	319,606	49, 228	
Linseed		240, 449	364,956	206,308	320,270	
Soya bean		6,107,494	784, 237	7,380,929	849, 211	
Tall		438,963	37,641	941,149	77, 211	
Other vegetable oils		-	28,051	_	10,848	
Pentaerythritol	. 1b.	1,356,148	411,283	1, 541, 537	454,089	
Phenol		21,345,904	3, 597, 573	21,816,116	3,385,727	
Phthalic anhydride		7,603,622	1,201,861	9,351,425	1, 476, 445	
Plasticizers (not elsewhere specified)		5,036,563	1,403,483	6,228,343	1,679,123	
Polyethylene type resin (all forms; for compounding only)		10, 334, 490	2, 538, 314	9,454,990	2,190,064	
Resins, other (all forms; for compounding only)		11, 870, 324	2, 325, 241	15,323,684	2, 596, 801	
Resorcinol		78, 738	56,664	102, 448	74,141	
Sodium hydroxide (caustic soda)		24,809,238	620,650	27, 504, 272	628, 248	
Toluene (toluol)	44	702, 379	35,004	581, 954	27, 409	
Urea crystals	8.8	8, 949, 247	472, 536	7,996,362	429, 147	
Vinyl monomers	6.6	18, 580, 423	2, 512, 805	24, 238, 595	3,380,919	
Xylene (xylol)		2, 446, 277	136,646	2,641,195	117, 715	
All other materials and process supplies <sup>1</sup>		-	24, 138, 821	-	27, 719, 849	
					1 000 -00	

## TABLE 3. Materials and Supplies Used in the Primary Plastics Industry, 1958 and 1959

<sup>1</sup> No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$200,000. The total estimated value of materials used by these firms was \$383,781 and this amount is included in "All other materials and process supplies". <sup>T</sup> Revised figures. .. Figures not available.

1,886,903

52,091,681

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1,922,461

57, 802, 935

Shipping containers and packaging materials .....

Totals

Year	Selling value at works
	\$
950	19,068,000
951	23,097,000
952	19, 100, 000
953	26, 251, 000
954	36,647,000
955	49,430,000
956	50, 530, 000
957	54,930,000
958	66, 441, 000
959	73, 827, 000

TABLE 4. Factory Shipments of Synthetic Resins<sup>1</sup> in Canada, 1950-59 (from All Industries)

<sup>1</sup> (a). Includes casein-type, vinyls, polystyrene, alkyds, phenol-formaldehyde, urea-formaldehyde, sodium carboxyme-thyl-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.

TABLE 5. Factory Shipments<sup>1</sup> of Specified Synthetic Resins, 1958 and 1959

the state of the state of the state of the	19	58	1959		
Type	Quantity <sup>2</sup>	Selling value at works	Quantity <sup>2</sup>	Selling value at works	
	lbs,	\$	lbs.	\$	
Alkyd (excluding polyester) Phenol-formaldehyde Urea-formaldehyde Vinyl chloride Polystyrene	15, 472, 581 49, 205, 150 15, 498, 768 34, 597, 118 44, 172, 362	5, 199, 175 9, 101, 078 1, 994, 833 9, 936, 395 10, 810, 067	16, 379, 000 50, 255, 000 18, 224, 000 41, 245, 000 52, 615, 000	5,282,000 8,912,000 2,091,000 10,886,000 10,193,000	

<sup>1</sup> Does not include resins made for own or captive use such as alkyds in paints, phenol-formaldehydeinlamina-nates; however, phenol-formaldehydes and urea-formaldehydes sold as glues are included in the relevant categories. <sup>2</sup> Includes all forms; moulding powders, solutions, etc. as reported which in some instances (e.g. glues) was gross weight of product and, therefore, quantity data are not necessarily indicative of total net weight of resin produced.

TABLE 6. Principal	Statistics	of the Primary	Plastics Industry,	grouped
according	to Size of	Establishment.	, 1958 and 1959	

Establishments reporting a value of factory shipments	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	nun	nber		dol	lars	
1958						
\$ 25,000 to \$ 49,999 50,000 '' 99,999	1	} 24	60, 624	7, 694	234, 123	321,005
100,000 '' 199,999 200,000 '' 499,999 500,000 '' 999,999	334	20 26 57	82,966 115,153 250,278	9,885 16,161 41,154	303,087 425,267 2,312,072	494, 751 841, 798 3, 228, 656
1,000,000 " 4,999,999 5,000,000 and over Head offices	12 7 -	723 2,332 253	3,140,577 11,061,995 1,543,638	471, 539 2, 285, 622	18,600,461 30,216,671	28, 455, 282 64, 460, 961
Totals	34	3, 435	16, 255, 231	2, 832, 055	52, 091, 681	97, 802, 453
1959						
\$ 25,000 to \$ 49,999 50,000 '' 99,999 100,000 '' 199,999	1 1 3	} 46	124,856	13,604	383, 781	626,632
200,000 " 499,999 500,000 " 999,999	53	37 86	174, 828 426, 377	30, 103 29, 515	892,555 1,508,424	1, 478, 746 2, 333, 697
1,000,000 '' 4,999,999 5,000,000 and over Head offices	14 7	787 2, 333 180	3,580,927 11,608,042 1,164,960	533,121 2,723,752	21, 280, 024 33, 738, 151	31, 263, 335 67, 836, 334
Totals	34	3, 469	1, 104, 900	3, 330, 095	57, 802, 935	103, 538, 744

### TABLE 7. Employees and their Earnings in the Primary Plastics Industry, 1958 and 1959

	•		Employe	ees	Earnings			
Province	Supervisory and office		Production workers		Total	Supervisory	Production	Total
	Male	Female	Male	Female		and office	workers	
1958			number				dollars	
Quebec Ontario Alberta and British Columbia	572 220 221	213 66 59	1,101 613 299	47 18 6	1,933 917 585	4,375,355 1,477,202 1,390,657	4,919,185 2,631,912 1,460,920	9,294,540 4,109,114 2,851,577
Canada	1,013	338	2,013	71	3, 435	7, 243, 214	9,012,017	16, 255, 231
1959								
Quebec Ontario Alberta and British Columbia	512 247 226	182 70 63	1,092 706 309	40 19 3	1,826 1,042 601	4,028,245 1,684,557 1,447,191	5,077,530 3,259,093 1,583,374	9,105,775 4,943,650 3,030,565
Canada	985	315	2,107	62	3, 469	7,159,993	9, 919, 997	17,079,990

### **TABLE 8.** Production Workers, by Months, 1959

Month	Establishments reporting monthly detail <sup>1</sup>		
	Male	Female	
January February March April May June July August September October November	1,943 1,960 2,010 2,043 2,089 2,110 2,140 2,157 2,126 2,113 2,117 2,091	63 66 71 69 66 65 69 60 62 53 51 57	
Average for establishments reporting monthly detail	2,075	62	
average estimated for small establishments <sup>2</sup>	32	-	
Average for all establishments	2,107	62	

<sup>1</sup> The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$200,000 and over. <sup>2</sup> For establishments generally reporting value of shipments of less than \$200,000 no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 9.	<b>Capital and Repair</b>	Expenditures in the	Primary Plastics	Industry, 1955-59
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	Capital expenditures			Repair and maintenance expenditures			Total capital
Year	Construction	Macbinery and equipment	Sub-total	Construction	Machinery and equipment	Sub-total	and repair expenditures
			tho	usands of dolla	ITS		
1955	682	1,918	2,600	291	1,834	2,125	4,725
1956	1,978	4,809	6,787	320	1,754	2,074	8,861
1957	1,645	4,602	6,247	373	2,896	3, 269	9,516
1958	3, 268	6, 564	9,832	363	2,460	2,823	12,655
1959P	2,809	12,169	14,978	341	3,104	3,445	18, 423

<sup>p</sup> Preliminary figures.

	Value		
Item	1958	1959	
	dollar	S	
Casings, synthetic, for meats and meat products	431,348	507,004	
Esters, or ethers, or combinations thereof, of cellulose, without admixture	1,952,160	2,075,852	
Esters, or ethers, or combinations thereof, of cellulose, compounded with other ma- terials, for moulding, casting, extruding or pressing	1,012,304	1,459,551	
Foamed and expanded cellulose plastics in blocks, boards, granules or powder	68,929	29, 484	
Compositions of esters or ethers of cellulose with other materials, n.o.p.	64, 819	53,311	
Cellulose plastic plates, sheets, strip, film, blocks, bars, rods, tubes or other pri- mary shapes	1,597,659	2,044,837	
Reinforced or supported cellulose plastic plates, sheets, strip, tubing, blocks, bars, rods, in which is incorporated a layer of paper, fibreboard or textile fabric, or a core of fibres, whether matted or otherwise	431, 681	638, 162	
Laminated moulded plastic products having cellulose plastics as the chief binding agents	160,494	189,936	
Cellulose nitrate sheets with turned edges, for the production of printers' engrav- ings	156, 584	149, 261	
Manufactures of cellulose plastics, n.o.p.	2,127,650	2, 110, 178	
Manufactures of regenerated cellulose, n.o.p.	1,726,252	1,781,830	
Synthetic resins without admixture	19,613,146	<b>19, 947, 4</b> 46	
Synthetic resins in solutions or solvents	5, 815, 803	6, 259, 078	
Synthetic resins compounded with other materials for moulding, casting or extruding, including uncured preforms or blanks for compression moulding	5, 989, 208	8,248,129	
Foamed and expanded synthetic resins in logs, blocks, boards, flakes, granules or powder	1,735,820	967,330	
Synthetic resin composition, n.o.p.	2,211,500	2, 585, 748	
Synthetic resins or protein plastics in bars, rods, sheets, plates, strip, film, tubing or other primary shapes, n.o.p. whether coated or decorated or not	9, 735, 548	10,633,620	
Reinforced or supported synthetic resin plates, sheets, strip, blocks, tubing, bars, rods, in which is incorporated a layer of paper, fibreboard or textile fabric, or a core of fibres, whether matted or otherwise	2, 209, 129	3, 266, 416	
Laminated moulded plastic products baving synthetic resins as the chief binding agents	788, 567	985,055	
Manufactures, n.o.p. of synthetic resins, or of protein plastics	20, 313, 023	23, 690, 440	

## TABLE 10. Imports<sup>1</sup> into Canada of Plastics and Manufactures thereof, 1958 and 1959

<sup>1</sup> Source: Trade of Canada - Imports.

## TABLE 11. Exports<sup>1</sup> from Canada of Synthetic Resins and Synthetic Resin Products, 1958 and 1959

Item	1958	1959
Synthetic resins, n.o.p	21,288,680 8,591,321	23, 367, 732 8, 594, 430
Synthetic resins, manufactures of	2, 376, 932	4, 393, 635
Polystyrene resin	26, 952, 000 7, 405, 673	<b>33,903,3</b> 00 <b>8,382,2</b> 37

<sup>1</sup> Source: Trade of Canada – Exports.

### TABLE 12. Exports of Synthetic Resins and Plastics from the United States to Canada, 1958 and 1959

(From the "United States Exports of Domestic and Foreign Merchandise")

¥.4	1958		1959	
Item	Quantity	Value	Quantity	Value
	pounds	\$	pounds	\$
Ester gums, except laminated Styrene polymer and copolymer resins, 60 per cent or more styrene Alkyd resins Vinyl and vinyl copolymer resins, uncompounded Vinyl and vinyl copolymer resins, compounded Vinyl and vinyl copolymer resins, semi-finished	3,700,000 10,900,000 7,665,000 9,794,000 4,896,000 665,000	822,000 3,320,000 2,228,000 2,725,000 1,785,000 583,000	3,675,000 13,468,000 8,772,000 11,096,000 6,723,000 1,073,000	825,000 3,711,000 2,538,000 3,193,000 2,323,000 653,000
Tar acid resins, powder, flake, lump, etc. Urea-formaldehyde, melamine-formaldehyde and other amine resins Resins, n.e.c., unfinished and semi-finished Film and sheeting, synthetic resin Cellulose ethers and derivatives in all unfinished forms Regenerated cellulose, excluding rayon, in rolls and sheets	8,978,000 11,748,000 11,581,360 9,169,000 436,000 1,083,000	$\begin{array}{c} 2,686,000\\ 3,914,000\\ 3,156,000\\ 7,906,000\\ 345,000\\ 687,000 \end{array}$	9, 163, 000 14, 475, 000 11, 895, 000 10, 113, 000 308, 000 701, 000	2, 597,000 5,094,000 3,269,000 9,035,000 223,000 560,000
Vulcanized fiber sheets, rolls and other shapes made therefrom Polyethylene, unfinished and semi-finished Acrylic and methyl methacrylate unfinished and semi-finished Ion exchange resins Polyethylene film and sheeting except laminated Laminated shapes, synthetic except, molded and decorative	1, 167,000 21,442,000 6,400,000 1,928,000 1,097,000 1,275,000	597,000 4,839,000 2,310,000 747,000 690,000 1,141,000	1,511,000 17,131,000 4,912,000 2,238,000 951,000 2,004,000	764,000 4,856,000 1,402,000 680,000 669,000 1,444,000
Laminated shapes, synthetic molded, except decorative Laminates synthetic decorative Cellulose ester moulding and extrusion compositions Cellulose ester plastic Cellulose ester, plastics except mouldings extrusions and scrap. Plastics except synthetic resins semi-finished or unfinished	$\begin{array}{r} 623,000\\ 380,000\\ 1,964,000\\ 20,000\\ 2,691,000\\ 1,163,000\end{array}$	550,000357,0001,096,0004,0002,640,000893,000	948,000 799,000 2,730,000 1,000 3,031,000 1,140,000	768,000 715,000 1,534,000 3,384,000 873,000

### TABLE 13. Fuel and Electricity Used in the Primary Plastics Industry, 1959

Kind	Quantity	Cost at plant
		\$
. Establishments reporting commodity detail:1		
Bituminous coal: (a) From Canadian mines	18, 535 4, 331	215, 117 48, 737
Gasoline (including gasoline used in cars and trucks) Imp. gal.	168, 526	61, 758
Fuel oil including kerosene or coal oil	2, 776, 977	253,692
Gas: (a) Liquefied petroleum gases	66, 393 3, 102 3, 493, 908	14,771 3,922 540,203
Other fuel		28,312
Electricity purchased kwh.	204, 280, 720	853, 192
Steam purchased	••	1, 296, 787
L Estimate for establishments for which no data were collected: <sup>2</sup>		
Cost of fuel and electricity		13,604
. All establishments:		
Total cost of fuel and electricity		3, 330, 095

<sup>1</sup> Establishments generally reporting value of shipments of \$200,000 and over.
 <sup>2</sup> Establishments generally reporting value of shipments of less than \$200,000.

... Figures not available. ... Figures not appropriate or not applicable.

## List of Firms in the Primary Plastics Industry, 1959

<ul> <li>chlofde, phenol-formaldehyde, resorcinol and melamin types); plastic.zers; varnish; rubber chemical; oll add tives; sodium benzoate; Phenacetin; synthetic addiesive Plastic products</li> <li>Shawinigan Chemicals Limited, Canadian Resins Division, Shawinigan Chemicals Limited, Canadian Resins Division, Shawinigan Pails</li> <li>Shawinigan Chemicals Limited, Canadian Resins Division, Shawinigan Pails</li> <li>Shawinigan Pails<th>Name and location of plant</th><th colspan="3">Principal product made</th></li></ul>	Name and location of plant	Principal product made		
Canadian Plastics Limited, 1850 St., Antoine St., Montreal Garagew Chemicals Limited, 115 Station Rd., St. Remi de Xajevrille Cranamid of Canada Limited, 2055 Peel St., Montreal Du Pont of Canada Limited, 2055 Peel St., Montreal Sulle Cellulose film ("Cellophane") Monsanio (Canada) Limited, 23 St. Patrick St., Ville La Salle Cellulose film ("Cellophane") Synthetic resin (ploytsyrene, ures-formaldehyde, yre chloride, pheno-formaldehyde, resortinol and melami types); plasticizers; vanish; nuber chemicals; oil add tives; sodum beavoate; phenacetin; synthetic addesiv Plastic products Synthetic resin (phenol-formaldehyde, resortinol and melami types); plasticizers; vanish; nuber chemicals; oil add tives; sodum beavoate; phenacetin; synthetic addesiv Plastic products Synthetic resin (phenol-formaldehyde and urea-formaldehyde types); plasticizers Synthetic resin (phenol-formaldehyde inter-formaldehyde types); plasticizers Synthetic resin (unit chemical structures Synthetic resin (compounded only) (viny chemical structures Synthetic resin (compounded only) (viny chemical structures) Synthetic resin (compounded				
Carlew Chemicals Limited, 115 Station Rd., St. Remi de Nojevrulle       Synthetic Resin (compounded only) (vinyl type)         Cysnamid of Canada Limited, 2055 Peel St., Montreal.       Synthetic resin (for own use) (phenol-formaldehyde ype laminated platic sheets, rods and tubes, door panels         Du Pont of Canada Limited, 255 N. Patrick St., Ville La Saline       Synthetic resin (for own use) (phenol-formaldehyde, viny chloride, phenol-formaldehyde, resortinol and melamin turves; sodium benzoate; Phenacetin; synthetic athesite Plastic predicts         Northern Resins Limited 23 Champlain Berthierville Elamville       Plastic predicts         Synthetic resin (phenol-formaldehyde, viny chloride, phenol-formaldehyde, resortinol and melamin turves; sodium benzoate; Phenacetin; synthetic athesite turves; phinalic anhydride         Shawingan Pals       Synthetic resin (phenol-formaldehyde and urea-formaldehyde turves; phinalic anhydride         Synthetic resin (phenol-formaldehyde type); yinyl film, sheetin soft arganizat, diocyl phinalies; 2 shrpl heranol, vin compounded only); texule specialites         Synthetic resin (ura-formaldehyde type); yinyl film, sheetin soft arganizat, diocyl achates, phenol-formaldehyde type); phenolic in pregated and laminated sheets; formaldehyde weston:         Canadian General Electric Co. Ltd., 940 Lansdowne Ave, Toronto       Synthetic resin (phenol-formaldehyde type); tates synthetic resin (phystyree and polystyree type; lates synthetic resin (polystyree and polystyree); lates synthetic resin (polystyree and polystyree); tates synthetic resin (polystyree and polystyree); type)         Du Port Co. of Canada Limited, Sarnia sorthetic resin (compounded only) (expli	uebec:			
de Napierville       Synthetic Resin (compounded only) (rung) type)         Granadi of Canada Limited, 2055 Peel St., Montreal       Synthetic resin (for own use) (phenol-formaldehyde type) laninated plastic sheets, rods and tubes; door panels         Monsanto (Canada Limited, Shawingan Falls       Cellulose film ("Cellophane")         Monsanto (Canada Limited, 25 St. Patrick St., Ville La       Synthetic resin (polystyrene, ures-formaldehyde, ving chickes, rods and tubes; door panels         Northern Resins Limited 23 Champlain Berthierville       Synthetic resin (phenol-formaldehyde, resins; tubber chemicals; oil add tives; sodium benzoate; Phenacetin; synthetic addesive lypes); phthalic and granuit; dioctly phthalise; 2 ethyl hexanol; vin chicride monomer; di isoderol phthalate; 2 ethyl hexanol; vin chicride monomer; di isoderol phthalate; 2 ethyl hexanol; vin chicride monomer; di isoderol phthalate; dioctly latigat dioctly adzie; plasticizes; warnish         Trilon Chemical Limited, 260 Victoria St., Lachine       Synthetic resin (phenol-formaldehyde type); hexanol; vin chicride monomer; di isoderol phthalate; dioctly latigat         Maidor Enterprises Ltd., 7498-19th Are., Ville St. Michel       Synthetic resin (phenol-formaldehyde type); nenoide in prepated and laminated sheets; formaldehyde         Synthetic resin (chicride type)       Synthetic resin (chicride type)         Dav Chemical Ci Canada Limited, Sarnia       Synthetic resin (polyetytice and polyester)         Dav Fohmical Canada Limited, Sing St. W., Kitchener       Synthetic resin (compounde only) (vinyl chloride type)         Synthetic resin (compounded only) (vinyl c	Canadian Plastics Limited, 1850 St., Antoine St., Montreal	Synthetic resin (Casein type)		
Cynnamid of Canada Limited, 2055 Peel St., Montreal       Synthetic resin (for own use) (presol-formaldehyde type)         Du Pont of Canada Limited, Shawinigan Falls       Cellulose film ("Cellophane")         Monsanto (Canada) Limited, 425 St. Patrick St., Ville La       Synthetic resin (polystyree, urreaformaldehyde, vin ochionde (pres), plasticizers; varnish; rubber chemicals; oil add tives; sodum benzoate; Phenacetin, and ranular; diocty   phhalic anhydride         Shawinigan Falls       Synthetic resin (phenol-formaldehyde reperimental stress)         Shawinigan Falls       Synthetic resin (phenol-formaldehyde reperimental stress)         Shawinigan Falls       Synthetic resin (viny) chloride type); vinyl film, sheetin and granular; diocty   phhalica anhydride         Synthetic resin (user) (phenol-formaldehyde index)       Synthetic resin (viny) chloride type); vinyl film, sheetin and granular; diocty   phhalica chromoter di losdecy   phhalica chromoter di losdecy   phhalica chromoter ype compounded only); textile specialties         Waldor Enterprises Ltd., 7496-19th Ave., Ville St. Michel       Synthetic resin (paeni-formaldehyde type); phenolic in gregnated and laminated sheets; formaldehyde type); phenolic in gregnated and laminated sheets; formaldehyde type); phenolic in gregnated and laminated sheets; formaldehyde type); lister resin (polyethylene and polystyrene type)         Du Pont Co. of Canada Limited, Str. W., Kitchener       Synthetic resin (compounded only) (vinyl chloride type)         Du Pont Co. of Canada Limited, 1790 Eagle St. N., Freston       Synthetic resin (compounded only) (vinyl chloride type)         Synt	Carlew Chemicals Limited, 115 Station Rd., St. Remi			
Du Pont of Canada Limited, Shawinigan Falls       Iminated plastic sheets, rofs and tubes; door panels         Monsanto (Canada) Limited, 425 St. Patrick St., Ville La       Static sheets, rofs and tubes; door panels         Salle       Cellulose film ("Cellopiane")         Northern Resins Limited 23 Champlain Berthierville       Synthetic resin (polystyrene, ureac-formaldehyde, ying types); plasticizers; varnish; rubber chemicals; oli add twes; sodum henzoate; Phenacetin, synthetic adhesiv         Northern Resins Limited 2 Champlain Berthierville       Synthetic resin (polystyrene, ureac-formaldehyde, ying film, sheetin shawinigan Falls         Shawinigan Falls       Synthetic resin (phenol-formaldehyde and ureas-formaldehyde type); philmile anhydride         Shawinigan Falls       Synthetic resin (phenol-formaldehyde type); ingt film, sheetin additional called type and the sheets; doordy adipation dioty; its callet; plasticizers         Waldor Enterprises Ltd., 7496-19th Ave., Ville St. Michel       Synthetic resin (phenol-formaldehyde type); phenolic in pregnated and faminated sheets; formaldehyde         Synthetic resin (phenol-formaldehyde type); phenolic in pregnated and faminated sheets; formaldehyde       Synthetic resin (phyester type); wardish, phoesesed olis         Synthetic resin (phyester type); varish, processed olis       Synthetic resin (phyester type); varish, processed olis         Synthetic resin (compounded only) (vinyi chloride type)       Synthetic resin (phyester type); varish, phoesesed olis         Synthetic resin (compounded only) (enoxy type)       Synthetic resin (p				
Monsanio (Canada) Limited, 425 St. Patrick St., Ville La       Synthetic resin (polystyrene, urea-formaldehyde, vin         Salle       Synthetic resin (polystyrene, urea-formaldehyde, vin         Northern Resins Limited 23 Champlain Berthierville       Plastic products         Reichold Chemicals (Canada) Limited, Ste. Therese de       Synthetic resin (polystyrene, urea-formaldehyde and urea-formaldehyde         Bakwinigan Chemicals Limited, Canadian Resins Division,       Plastic products         Synthetic resin (viny) choirde type); ying film, sheekin       and gramuar; dioxyl pithalate; 2 eity) theraol; vin         Trilon Chemical Limited, 260 Victoria St., Lachine       Synthetic resin (compounded only); texile specialities         Waldor Enterprises Ltd., 7496-19th Are., Ville St. Michel       Synthetic resin (compounded only);         Bakelite Company, Division of Union Carbide Canada       Synthetic resin (playesiter type); phenolic in pregnated and laminated sheets; formaldehyde         Canadian General Electric Co. Ltd., 940 Lansdowne Are., Toronto       Synthetic resin (playesiter type); varish, processed oils         Dow Chemical of Canada Limited, Samia       Synthetic resin (playesiter type); varish, processed oils         Synthetic resin (compounded only) (viny) chloride type)       Synthetic resin (compounded only) (viny) chloride type)         Due Con of Canada Limited, 1790 Eagle St. N., Preston       Synthetic resin (polyester type); varish, processed oils         Synthetic resin (playethylene and viny) chloride type		laminated plastic sheets, rods and tubes; door panels		
Salle       Synthetic resin (polystyrene, urea-formaldehyde, mesorical and melamit types); plasticizers; variash; rubber chemicals; oli additives; sodium benzoate; Phenacetin, synthetic adhesiv, Plastic products         Service of the servi				
Northern Resins Limited 23 Champlain BerthiervillePlastic productsReichhold Chemicals (Canada) Limited, Ste, Therese de BlaurvilleSynthetic resin (phenol-formaldehyde and urea-formaldehyd types); phknalic annydrideShawinigan Chemicals Limited, Canadian Resins Division Shawinigan FallsSynthetic resin (vinyl chloride type); vinyl film, sheetir and granular; diotyl phthalate; diotyl and patients; through azelate; phasicizers Synthetic resin (urea-formaldehyde type) (silicone typ compounded only) (study azelate; phasicizers Synthetic resin (compounded only)matric:Bakelite Company, Division of Union Carbide Canada Limited, BellevilleChemical Oil and Resin Co, 82 Peter St., Toronto Dow Chemical of Canada Limited, Stania Sonthetic resin (alkyd type); ready mixed paints; thinner varnishDu Pont Co, of Canada Lidi, Whitby Goodrich, B.F. Chemical Co., 251 King St. w., Kitcherer Goodrich, B.F. Chemical Co., 251 King St. w., Kitcherer Goodrich, B.F. Chemical Lid., 1790 Eagle St. N., PrestonReichhold Chemicals Lid., 1790 Eagle St. N., WestonPrestonPerkins Gue Co. of Canada Limited, 428 Queen St. S., Kitcherer Nicher resin (collowed only) (epoxy type)Synthetic resin (compounded only) (epoxy type)Synthetic resin (alkyd, phystyrene and vinyl acetate types) Synthetic resin (urea-formaldehyde, type) (acetate types) Synthetic resin (alkyd, phystyrene and vinyl acetate types) Synthetic resin (al		<ul> <li>Synthetic resin (polystyrene, urea-formaldehyde, viny chloride, phenol-formaldehyde, resorcinol and melamin- types); plasticizers; varnish; rubber chemicals; oil addi</li> </ul>		
Reichhold Chemicals (Canada) Limited, Ste, Therese de Blauville Shawinigan Chemicals Limited, Canadian Resins Division, Shawinigan Chemicals Limited, Canadian Resins Division, Shawinigan Falls Trilon Chemical Limited, 260 Victoria St., Lachine Waldor Enterprises Ltd., 7498-19th Ave., Ville St. Michel Mario: Bakelite Company, Division of Union Carbide Canada Limited, Belleville Canadian General Electric Co., Ltd., 940 Lansdowne Ave., Toronto Chemical Oil and Resin Co. 82 Peter St., Toronto Dow Chemical Of Canada Limited, Samia Southetic resin (plaenoi-formaldehyde type); phenolic in pregnated and laminated sheets; formaldehyde Synthetic resin (plaenoi-formaldehyde type); phenolic in pregnated and laminated sheets; formaldehyde Synthetic resin (plaenoi-formaldehyde type); phenolic in pregnated and laminated sheets; formaldehyde Synthetic resin (plaenoi-formaldehyde type); phenolic in pregnated and laminated sheets; formaldehyde Synthetic resin (plaenoi-formaldehyde type); phenolic in pregnated and laminated sheets; formaldehyde Synthetic resin (plaenoi-formaldehyde type); phenolic in pregnated and laminated sheets; formaldehyde Synthetic resin (plaenoi-formaldehyde type); phenolic in pregnated and laminated sheets; formaldehyde Synthetic resin (plaenoi-formaldehyde type); phenolic in pregnated and laminated sheets; formaldehyde Synthetic resin (plaenoi-formaldehyde type); phenolic in pregnated and laminated sheets; formaldehyde Synthetic resin (plaenoi-formaldehyde type); phenolic in Synthetic resin (compounded only) (vinyl chloride type) Synthetic resin (compounded only) (vinyl chloride type) Synthetic resin (playstyrene and vinyl acetate types) Synthetic resin (playstyrene and vinyl acetate types) Synthetic resin (alkyd, playstyrene and vinyl acetate types). Synthetic resin (alkyd, acrylic and polyester types) agricu tural dusts & sprays, epoxidized fatty esters Synthetic resin (alkyd, acrylic and polyester types); in Synthetic resin (alkyd, acrylic and phenol-formaldehyde type); in Synthetic resin (alkyd, acry	Northern Resins Limited 23 Champlain Berthierville			
BlainvilleSynthetic resin (phenol-formaldehyde and urea-formaldehyde types); phtalic anhydrideShawinigan Chemicals Limited, Canadian Resins Division, Shawinigan FallsSynthetic resin (vinyl chloride type); vinyl film, sheetir and granular; dioctyl phinalate; 2 ethyl hexanol; vin chloride monomer; di isodeeyl philaite; dioctyl adjati dioctyl azelate; plasticizersTrilon Chemical Limited, 260 Victoria St., Lachne Waldor Enterprises Ltd., 7498-19th Ave., ville St. MichelSynthetic resin (urea-formaldehyde type); phenolic in pregnated and laminated sheets; formaldehyde type); bhenolic in pregnated and laminated sheets; formaldehyde type); phenolic in pregnated and laminated sheets; formaldehyde upp); polystyrene type); variish, processed olls Synthetic resin (onpounded only) (vinyl chloride type)Synthetic resin (compounded only) (vinyl chloride type) Synthetic resin (compounded only) (epsy type)Synthetic resin (compounded only) (epsy type)Kaydot Chemical Ltd., 1790 Eagle St. N., PrestonPeirkeins Limited, Beechwood Drive, Toronto S		• • • • • • • • • • • • • • • • • • • •		
Shawinigan FallsSynthetic resin (vinyl choride type); vinyl film, sheetiShawinigan FallsSynthetic resin (vinyl choride (ype); vinyl film, sheetiTrilon Chemical Limited, 260 Victoria St., LachineChoride monomer; di isodevyl phthalate; dioctyl adipatWaldor Enterprises Ltd., 7498-19th Ave., Ville St, MichelSynthetic resin (ura-formaldehyde type); stille specialtiesBakelite Company, Division of Union Carbide CanadaSynthetic resin (compounded only);Canadian General Electric Co. Ltd., 940 Lansdowne Ave., TorontoSynthetic resin (phenoi-formaldehyde type); phenolic in pregnated and laminated sheets; formaldehydeChemical Oll and Resin Co. 82 Peter St., TorontoSynthetic resin (polyester type); varnish, processed oils Synthetic resin (polyester type); varnish, processed oils Synthetic resin (polyestyrene foam)Du Pont Co. of Canada Lid, Whitby Goodrich, B.F. Chemical Co., 251 King St. w., Kitchener Hysol Canada Limited, 4 Beechwood Drive, Toronto Kayson Rubber & Plastics Limited, 1790 Eagle St. N., PrestonSynthetic resin (compounded only) (vinyl chloride type) Synthetic resin (compounded only) (cellulose acetate, poly synthetic resin (polyestyrene and vinyl chloride type)Radio Chemicals (Canada Limited, 629 Queen St. S., West millSynthetic resin (alkyd, polystyrene and vinyl acetate types) Synthetic resin (alkyd, polystyrene and vinyl acetate types)Polyresins Limited, Beechwood Drive, Toronto Meet MillSynthetic resin (alkyd, polystyrene and vinyl acetate types)Rohm & Haas Company of Canada Ltd., 2 Manse Rd., West MillSynthetic resin (alkyd, acrylic and polyester types) agricu tural dusts & sprays, epoldized fatty estersSynthetic resin (alkyd, acrylic and po		. Synthetic resin (phenol-formaldehyde and urea-formaldehyde		
and granular, dioctyl phthalate; 2 ethyl hexanol; vin chorde monomer, di isodecyl phthalate; dioctyl adipat dioctyl azelate; plasticizersTrilon Chemical Limited, 260 Victoria St., Lachine Waldor Enterprises Ltd., 7498-19th Ave., Ville St, MichelSynthetic resin (urea-formaldehyde type) (silicone typ compounded only); textule specialitiesBakelite Company, Division of Union Carbide Canada Limited, BellevilleSynthetic resin (compounded only)Canadian General Electric Co. Ltd., 940 Lansdowne Ave., TorontoSynthetic resin (alkyd type); ready mixed paints; thinner varnishChemical Oll and Resin Co. 82 Peter St., Toronto Dow Chemical of Canada Limited, Sarnia Dow Chemical Of Canada Limited, Sarnia Du Pont Co. of Canada Limited, Sarnia Du Pont Co. of Canada Limited, Sarnia Synthetic resin (polyethylene and polystyrene type); synthetic resin (compounded only) (vinyl chloride type) Synthetic resin (compounded only) (cepay type)Kayson Rubber & Plastics Limited, 1790 Eagle St. N., Preston Polyresins Limited, Beechwood Drive, Toronto Reichold Chemicals (Canada Limited, 629 Queen St. S., Kitcheres Reichold Chemicals (Canada Limited, 1919 Wilson Ave., West Hill Schenectady Varnish Canada Ltd., 209 Comstock Rd. ScarboroughSynthetic resin (alkyd, acrylic and polyester types) argiculating varnish Ceilulose filmT C F of Canada Ltd., CornwallComstock Rd. ScarboroughSynthetic restin (alkyd and phenol-formaldehyde types); ir suitaling varnish	Shawinigan Chemicals Limited, Canadian Resins Division,			
<ul> <li>waldor Enterprises Ltd., 7498-19th Ave., Ville St, Michel</li> <li>waldor Enterprises Ltd., 7498-19th Ave., Ville St, Michel</li> <li>synthetic resin (compounded only)</li> <li>mario:</li> <li>Bakelite Company, Division of Union Carbide Canada</li> <li>Limited, Belleville</li> <li>Canadian General Electric Co. Ltd., 940 Lansdowne Ave., Toronto</li> <li>Chemical Oil and Resin Co. 82 Peter St., Toronto</li> <li>Dow Chemical of Canada Limited, Samia</li> <li>Du Pont Co. of Canada Ltd., Whitby</li> <li>Goodrich, B.F. Chemical Co., 251 King St. W., Kitchener</li> <li>Hysol Canada Limited, 44 Beechwood Drive, Toronto</li> <li>Kaydot Chemical Limited, 1790 Eagle St. N., Preston</li> <li>Perkins Glue Co. of Canada Limited, 629 Queen St. S., Kitchener</li> <li>Polyresins Limited, Beechwood Drive, Toronto</li> <li>Rohm &amp; Haas Company of Canada Ltd., 2 Manse Rd., West Hill</li> <li>Schenectady Varnish Canada Ltd., 309 Comstock Rd., Scatborough</li> <li>T C F of Canada Ltd., Cornwall</li> <li>Compounded only): textile specialties</li> <li>Synthetic resin (alkyd type); ready mixed paints; thinnerrivanish</li> <li>Synthetic resin (compounded only) (vinyl chloride type)</li> <li>Synthetic resin (compounded only) (vinyl chloride type)</li> <li>Synthetic resin (compounded only) (vinyl chloride type)</li> <li>Synthetic resin (compounded only) (ellulose acetate, poly synthetic resin (loplystyrene and vinyl chloride type)</li> <li>Synthetic resin (alkyd, polystyrene and vinyl acetate types)</li> <li>Synthetic resin (alkyd, polystyrene and vinyl acetate types).</li> <li>Synthetic resin (alkyd, acrylic and polyester types) agricu tural dusts &amp; sprays, epoxidized fatty esters</li> <li>Synthetic resin (alkyd and phenol-formaldehyde type); ir sualting varnish</li> <li>Cellulose film</li> </ul>	Snawinigen Fails	and granular; dioctyl phthalate; 2 ethyl hexanol; viny chloride monomer; di isodecyl phthalate; dioctyl adipate		
matric:Bakelite Company, Division of Union Carbide Canada Limited, BellevilleCanadian General Electric Co. Ltd., 940 Lansdowne Ave., TorontoCanadian General Electric Co. Ltd., 940 Lansdowne Ave., TorontoChemical Oil and Resin Co. 82 Peter St., TorontoDu Pont Co. of Canada Limited, SamiaDu Pont Co. of Canada Lid., WhitbyGoodrich, B.F. Chemical Co., 251 King St. W., KitchenerGoodrich, B.F. Chemical Co., 251 King St. W., KitchenerMysol Canada Limited, 44 Beechwood Drive, TorontoKaydot Chemical Ltd., 1790 Eagle St. N., PrestonPerkins Glue Co. of Canada Limited, 629 Queen St. S., KitchenerPolyresins Limited, Beechwood Drive, TorontoReichhold Chemicals (Canada) Limited, 1919 Wilson Ave., Wester HillRohm & Haas Company of Canada Ltd., 2 Manse Rd., ScarboroughRohm & Haas Company of Canada Ltd., 309 Comstock Rd., ScarboroughSchenectady Varnish Canada Ltd., 200 Comstock Rd., ScarboroughChemical Ltd., CornwallCordinada Ltd., CornwallCordinada Ltd., CornwallCordinada Ltd., CornwallCordinada Ltd., CornwallCellulose film	Trilon Chemical Limited, 260 Victoria St., Lachine			
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<ul> <li>Perkins Glue Co. of Canada Limited, 629 Queen St. S., Kitchener</li> <li>Polyresins Limited, Beechwood Drive, Toronto</li> <li>Reichhold Chemicals (Canada) Limited, 1919 Wilson Ave., Weston</li> <li>Rohm &amp; Haas Company of Canada Ltd., 2 Manse Rd., West Hill</li> <li>Schenectady Varnish Canada Ltd., 309 Comstock Rd., Scarborough</li> <li>T C F of Canada Ltd., Cornwall</li> <li>Station Company Co</li></ul>		Synthetic resin (compounded only) (cellulose acetate, poly- ethylene, polystyrene and vinyl chloride types)		
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T C F of Canada Ltd., Cornwall Cellulose film		Synthetic resin (alkyd and phenol-formaldehyde types); in-		
	T C F of Canada Ltd., Comwall			
	Varcum Chemical Corp. (Canada) Ltd., St. David St.,			

## THE PRIMARY PLASTICS INDUSTRY

Name and location of plant	Principal product made
Alberta:	
Canadian Chemical Co. Ltd., Box 99, Edmonton	Synthetic resin (cellulose acetate type)
Canadian Industries Limited, HWY. 160; Edmonton	Synthetic resin (polyethylene type)
Canadian-Marietta Ltd., Edmonton	Synthetic resin (phenol-formaldehyde and urea-formaldehyde type)
Monsanto Canada Limited, Clover Bar	Synthetic resin adhesives
British Columbia:	
Canadian-Marietta Ltd., Kerry St., New Westminster	Synthetic resin (phenol-formaldehyde and urea-formaldehyde type)
Monsanto Canada Limited, West 75th Ave., Vancouver	Casein glues, wood preservatives, weed killers, synthetic resin glues
Reichhold Chemicals (Canada) Limited, Foot of Douglas St., Port Moody	Synthetic resins (phenol-formaldehyde, urea-formaldehyde and alkyd types); adhesives; blown linseed oil

## List of Firms in the Primary Plastics Industry, 1959 - Concluded





