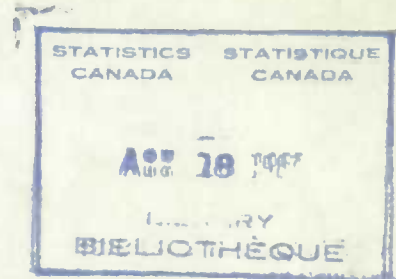


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# THE PRIMARY PLASTICS INDUSTRY 1954



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### NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I—General Review of the Manufacturing Industries, \$1.50
- II—The Manufacturing Industries of Canada, (7 sections, as follows:)
  - Section A. Summary for Canada, 25¢
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  - Section C. Quebec, 25¢
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- VII—Textile Mills
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- IX—Clothing
- X—Wood and Paper Products
- XI—Printing Trades
- XII—Iron and Steel Products
- XIII—Transportation Equipment
- XIV—Non-ferrous Metal Products
- XV—Electrical Apparatus and Supplies
- XVI—Non-metallic Mineral Products
- XVII—Products of Petroleum and Coal
- XVIII—Chemicals and Allied Products
- XIX—Miscellaneous Manufactures

The present report belongs in Part XVIII, Chemicals and Allied Products. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A—General Review, 25¢
- B—The Acids, Alkalies and Salts Industry, 25¢
- C—The Fertilizers Industry, 25¢
- D—The Fertilizer Trade in Canada, 25¢
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- M—The Polishes and Dressings Industry, 25¢
- N—The Compressed Gases Industry, 25¢
- O—The Coal Tar Distillation Industry, 25¢
- P—The Miscellaneous Chemical Products Industry, 25¢

# THE PRIMARY PLASTICS INDUSTRY

1954

The value of factory shipments in 1954, reported by firms in the Primary Plastics Industry in Canada, amounted to \$58,881,800, an increase of 13.2 per cent over the 1953 total of \$44,541,882.

This industry covers the operations of establishments engaged chiefly in the manufacture of synthetic resins in the forms of sheets, rods, tubes, granules or liquids for use in further manufacture. 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 the production of synthetic resins are not published as many of the individual items were made by only one or two firms. However, 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 the products made by the factories in this group is shown in the directory which appears at the back of this bulletin.

Note: Figures for value added by manufacture shown in Table 1 prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952, the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1952 and 1953, value added figures for these years were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954, information on the value of year-end inventory holdings at plant and plant warehouses was collected as part of the annual Census of Industry and information thus made available was taken into account in calculating the value added figure for 1954.

TABLE 1. Principal Statistics of the Primary Plastics Industry, 1947-1954

| Year                   | Establishments | Employees | Earnings   | 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> |
|------------------------|----------------|-----------|------------|---------------------------------------|---------------------------------|---|--|
|                        | No.            | No.       | \$         | \$                                    | \$                              | \$                                      | \$   |
| 1947 .....             | 10             | 1,060     | 2,351,244  | 203,221                               | 5,176,706                       | 6,402,598                               | 11,782,525                                   |
| 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                                   |
| 1950 .....             | 14             | 1,392     | 3,965,070  | 603,388                               | 14,000,584                      | 16,124,381                              | 30,728,353                                   |
| 1951 .....             | 16             | 1,648     | 5,402,853  | 707,334                               | 20,571,434                      | 18,091,655                              | 39,370,423                                   |
| 1952 .....             | 16             | 1,850     | 6,505,167  | 734,518                               | 18,774,923                      | 15,129,313                              | 34,638,754                                   |
| 1953                   |                |           |            |                                       |                                 |   |  |
| Quebec .....           | 7              | 1,509     | 5,573,552  | 590,629                               | 12,242,253                      | 13,454,040                              | 26,286,922                                   |
| Ontario .....          | 9              | 557       | 1,954,281  | 245,145                               | 10,888,512                      | 5,329,399                               | 16,463,056                                   |
| Alberta .....          | 1              | 94        | 388,585    | 68,680                                | 1,366,951                       | 356,273                                 | 1,791,904                                    |
| British Columbia ..... | 2              |           |            |                                       |                                 |   |  |
| Canada .....           | 19             | 2,160     | 7,916,418  | 904,454                               | 24,497,716                      | 19,139,712                              | 44,541,882                                   |
| 1954                   |                |           |            |                                       |                                 |   |  |
| Quebec .....           | 6              | 1,661     | 6,522,757  | 659,384                               | 11,414,028                      | 14,134,330                              | 25,987,797                                   |
| Ontario .....          | 12             | 692       | 2,566,338  | 405,801                               | 13,872,557                      | 7,927,550                               | 22,336,478                                   |
| Alberta .....          | 2              | 455       | 2,101,558  | 620,639                               | 5,686,977                       | 4,830,444                               | 10,557,525                                   |
| British Columbia ..... | 2              |           |            |                                       |                                 |   |  |
| Canada .....           | 22             | 2,808     | 11,190,653 | 1,685,824                             | 30,973,562                      | 26,892,324                              | 58,881,800                                   |

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

1. See footnote to text.

TABLE 2. Inventories<sup>1</sup>, 1954

| Province                           | Raw materials and supplies | Goods in process | Finished goods of own manufacture | Total      |
|------------------------------------|----------------------------|------------------|-----------------------------------|------------|
|                                    | \$                         | \$               | \$                                | \$         |
| Opening:                           |                            |                  |                                   |            |
| Quebec .....                       | 1,875,519                  | 528,000          | 1,374,676                         | 3,778,195  |
| Ontario .....                      | 1,759,592                  | 448,449          | 1,988,954                         | 4,196,995  |
| Alberta and British Columbia ..... | 858,412                    | 78,172           | 333,179                           | 1,269,763  |
| Canada .....                       | 4,493,523                  | 1,054,621        | 3,696,809                         | 9,244,953  |
| Closing:                           |                            |                  |                                   |            |
| Quebec .....                       | 1,818,549                  | 492,795          | 1,594,621                         | 3,905,965  |
| Ontario .....                      | 1,771,507                  | 397,301          | 1,858,384                         | 4,027,192  |
| Alberta and British Columbia ..... | 1,177,937                  | 33,240           | 913,714                           | 2,124,891  |
| Canada .....                       | 4,767,993                  | 923,336          | 4,366,719                         | 10,058,048 |

1. Book value of all manufacturing inventories held at plant and plant warehouses.

Note: Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses 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.

TABLE 3. Materials Used in the Primary Plastics Industry, 1953 and 1954

| Material  | 1953       |                   | 1954       |                   |
|---|------------|-------------------|------------|-------------------|
|   | Quantity   | Cost at works     | Quantity   | Cost at works     |
|   |            | \$                |            | \$                |
| Acetic anhydride..... lb.                                     | 75,634     | 10,261            | 56,746     | 7,660             |
| Acid, hydrochloric..... lb.                                   | 2          |                   | 67,114     | 1,644             |
| Acid, sulphuric, 100%..... lb.                                | 18,205,327 | 286,235           | 27,333,406 | 484,436           |
| Alcohol, ethyl..... Imp. gal.                                 | 31,681     | 25,479            | 24,963     | 18,579            |
| Alcohol, isopropyl..... lb.                                   | 433,297    | 24,550            | 1,275,335  | 33,776            |
| Alcohol, methyl..... Imp. gal.                                | 467,755    | 171,542           | 646,528    | 255,120           |
| Benzene..... lb.  | 2          |                   | 7,806,684  | 443,763           |
| Carbon bisulphide..... "                                      | 3,979,524  | 249,877           | 4,651,162  | 288,794           |
| Chlorine, liquid..... "                                       | 280,034    | 8,658             | 401,289    | 12,759            |
| Cresol..... "   | 735,296    | 112,936           | 348,684    | 51,144            |
| Dyes and pigments..... -                                      | -          | 417,755           | -          | 378,028           |
| Ethyl acetate..... lb.  | 548,193    | 68,957            | 822,829    | 107,927           |
| Ethylene glycol..... lb.                                      | 2,064,258  | 412,238           | 2,836,386  | 414,511           |
| Formaldehyde..... "   | 16,147,248 | 623,379           | 17,629,518 | 678,951           |
| Glycerine..... "  | 2,217,250  | 940,326           | 2,787,118  | 956,320           |
| Oils, vegetable:  |            |                   |            |                   |
| Castor oil..... lb.   | 2          |                   | 949,110    | 139,297           |
| Linseed..... Imp. gal.  | 6,867      | 8,757             | 90,922     | 112,564           |
| Soya bean..... "  | 2,931,019  | 421,771           | 3,491,781  | 524,924           |
| Other oils..... -   | -          | 31,125            | -          | 130,787           |
| Pentaerythritol..... lb.                                      | 607,858    | 196,136           | 975,078    | 318,317           |
| Phenol..... "   | 9,480,159  | 1,434,183         | 9,536,436  | 1,392,832         |
| Phthalic anhydride..... "                                     | 4,119,049  | 728,725           | 4,647,261  | 823,216           |
| Sodium hydroxide..... "                                       | 12,140,388 | 325,825           | 15,287,096 | 398,963           |
| Plasticizers (reported as such)..... "                        | 2,622,926  | 967,449           | 1,999,399  | 751,233           |
| Urea crystals..... "  | 1,059,548  | 66,408            | 1,528,663  | 94,881            |
| Wood pulp..... "  | 16,146,964 | 1,498,045         | 35,336,946 | 3,628,388         |
| Wood flour..... "   | 2,352,430  | 53,921            | 2,263,838  | 49,421            |
| Shipping containers and packaging materials..... -            | -          | 787,250           | -          | 1,129,844         |
| All other materials and process supplies <sup>1</sup> ..... - | -          | 14,625,928        | -          | 17,345,483        |
| <b>Total..... -</b>   | <b>-</b>   | <b>24,497,716</b> | <b>-</b>   | <b>30,973,562</b> |

1. Includes acetylene gas, casein, styrene monomer, polyvinyl chloride, etc.

2. Not available.

#### Total Production of Synthetic Resins in Canada

Separate figures for the production of synthetic resins are not published as many of the individual items are made by only one or two firms; nor is it possible to classify all producers of synthetic resins to the Primary Plastics group. Alkyd resins, for example, are made in the paints and varnishes industry, vinyl resins in the heavy chemical industry, and so on. The Bureau has made, therefore,

a special compilation which gives a fairly good summary of the total output value as gathered up from all industries, this being shown below. The values cover only the products made for sale as there is no adequate record of the intermediates made for the further use of the producers. The output in 1954 was around \$36,647,000 compared with \$26,251,000 in 1953.

TABLE 4. Total Production of Synthetic Resins<sup>1</sup> in Canada, 1948-1954

| Year      | Selling value at works |
|-----------|------------------------|
|           | \$                     |
| 1948..... | 11,998,000             |
| 1949..... | 14,371,000             |
| 1950..... | 19,068,000             |
| 1951..... | 23,097,000             |
| 1952..... | 19,100,000             |
| 1953..... | 26,251,000             |
| 1954..... | 36,647,000             |

1. Includes casein-type, vinyls, polystyrene, alkyds, phenol-formaldehyde, urea-formaldehyde, sodium carboxymethyl-cellulose, polyethylene, cellulose acetate, etc.

TABLE 5. Principal Statistics of the Primary Plastics Industry, Grouped According to Size of Establishments, 1953 and 1954

| Establishments reporting a value of factory shipments | Estab-lish-ments | Em-ployees   | Earnings          | Cost of fuel and electricity | Cost at plant of materials used | Selling value of factory shipments |
|---|------------------|--------------|-------------------|------------------------------|---------------------------------|------------------------------------|
|   | No.              | No.          | \$                | \$                           | \$                              | \$                                 |
| 1953  |                  |              |                   |                              |                                 |                                    |
| \$50,000 to \$99,999.....                             | 1                | 85           | 325,059           | 62,680                       | 285,472                         | 439,561                            |
| \$100,000 to \$199,999.....                           | 2                |              |                   |                              |                                 |                                    |
| \$200,000 to \$499,999.....                           | 4                | 191          | 580,604           | 114,172                      | 1,263,476                       | 1,743,175                          |
| \$500,000 to \$999,999.....                           | 1                |              |                   |                              |                                 |                                    |
| \$1,000,000 to \$4,999,999.....                       | 8                | 674          | 2,515,239         | 221,659                      | 9,732,369                       | 16,842,941                         |
| \$5,000,000 and over.....                             | 3                | 1,045        | 3,791,067         | 505,943                      | 13,216,399                      | 25,516,205                         |
| Head offices.....                                     | —                | 165          | 704,449           | —                            | —                               | —                                  |
| <b>Totals.....</b>                                    | <b>19</b>        | <b>2,160</b> | <b>7,916,418</b>  | <b>904,454</b>               | <b>24,497,716</b>               | <b>44,541,882</b>                  |
| 1954  |                  |              |                   |                              |                                 |                                    |
| Under \$10,000.....                                   | 1                | 73           | 208,702           | 36,691                       | 641,773                         | 1,064,167                          |
| \$50,000 to \$99,999.....                             | 1                |              |                   |                              |                                 |                                    |
| \$100,000 to \$199,999.....                           | 2                | 264          | 1,127,627         | 222,087                      | 1,186,557                       | 2,050,553                          |
| \$200,000 to \$499,999.....                           | 2                |              |                   |                              |                                 |                                    |
| \$500,000 to \$999,999.....                           | 3                | 854          | 3,454,742         | 421,693                      | 11,860,964                      | 18,692,841                         |
| \$1,000,000 to \$4,999,999.....                       | 9                | 1,362        | 5,284,220         | 1,005,353                    | 17,284,268                      | 37,074,239                         |
| \$5,000,000 and over.....                             | 4                | 255          | 1,115,362         | —                            | —                               | —                                  |
| Head offices.....                                     | —                | —            | —                 | —                            | —                               | —                                  |
| <b>Totals.....</b>                                    | <b>22</b>        | <b>2,808</b> | <b>11,190,653</b> | <b>1,685,824</b>             | <b>30,973,562</b>               | <b>58,881,800</b>                  |

TABLE 6. Employees and Their Earnings in the Primary Plastics Industry, 1953 and 1954

| Province                          | Number of employees    |            |                    |           | Total        | Earnings               |                    |                   |
|-----------------------------------|------------------------|------------|--------------------|-----------|--------------|------------------------|--------------------|-------------------|
|                                   | Supervisory and office |            | Production workers |           |              | Supervisory and office | Production workers | Total             |
|                                   | Male                   | Female     | Male               | Female    |              |                        |                    |                   |
| 1953                              |                        |            |                    |           |              |                        |                    |                   |
| Quebec.....                       | 419                    | 156        | 884                | 50        | 1,509        | 2,420,631              | 3,152,921          | 5,573,552         |
| Ontario.....                      | 122                    | 43         | 379                | 13        | 557          | 651,726                | 1,302,555          | 1,954,281         |
| Alberta and British Columbia..... | 30                     | 8          | 56                 | —         | 94           | 177,420                | 211,165            | 388,585           |
| <b>Canada.....</b>                | <b>571</b>             | <b>207</b> | <b>1,319</b>       | <b>63</b> | <b>2,160</b> | <b>3,249,777</b>       | <b>4,666,641</b>   | <b>7,916,418</b>  |
| 1954                              |                        |            |                    |           |              |                        |                    |                   |
| Quebec.....                       | 491                    | 195        | 921                | 54        | 1,661        | 3,200,787              | 3,321,970          | 6,522,757         |
| Ontario.....                      | 141                    | 57         | 469                | 25        | 692          | 813,987                | 1,752,351          | 2,566,338         |
| Alberta and British Columbia..... | 137                    | 45         | 266                | 7         | 455          | 824,192                | 1,277,366          | 2,101,558         |
| <b>Canada.....</b>                | <b>769</b>             | <b>297</b> | <b>1,656</b>       | <b>86</b> | <b>2,808</b> | <b>4,838,966</b>       | <b>6,351,687</b>   | <b>11,190,653</b> |

TABLE 7. Production Workers, by Months, 1953 and 1954

| Month          | 1953  |        |       | 1954  |        |       |
|----------------|-------|--------|-------|-------|--------|-------|
|                | Male  | Female | Total | Male  | Female | Total |
|                | No.   | No.    | No.   | No.   | No.    | No.   |
| January.....   | 1,136 | 58     | 1,194 | 1,608 | 66     | 1,674 |
| February.....  | 1,126 | 59     | 1,185 | 1,628 | 80     | 1,708 |
| March.....     | 1,160 | 59     | 1,219 | 1,584 | 76     | 1,660 |
| April.....     | 1,172 | 56     | 1,228 | 1,627 | 74     | 1,701 |
| May.....       | 1,225 | 60     | 1,285 | 1,670 | 79     | 1,749 |
| June.....      | 1,327 | 61     | 1,388 | 1,721 | 91     | 1,812 |
| July.....      | 1,338 | 63     | 1,401 | 1,712 | 98     | 1,810 |
| August.....    | 1,378 | 72     | 1,450 | 1,705 | 90     | 1,795 |
| September..... | 1,428 | 71     | 1,499 | 1,683 | 88     | 1,771 |
| October.....   | 1,487 | 70     | 1,557 | 1,666 | 90     | 1,756 |
| November.....  | 1,536 | 70     | 1,606 | 1,637 | 96     | 1,733 |
| December.....  | 1,542 | 65     | 1,607 | 1,644 | 97     | 1,741 |
| Average.....   | 1,319 | 63     | 1,382 | 1,656 | 86     | 1,742 |

TABLE 8. Capital and Repair Expenditures in the Primary Plastics Industry, 1950 - 1954

| Year                    | Capital expenditures |                         | Sub-total | Repair and maintenance expenditures |                         | Sub-total | Total capital and repair expenditures |
|-------------------------|----------------------|-------------------------|-----------|-------------------------------------|-------------------------|-----------|---------------------------------------|
|                         | Construction         | Machinery and equipment |           | Construction                        | Machinery and equipment |           |                                       |
|                         | \$'000               |                         |           |                                     |                         |           |                                       |
| 1950.....               | 1,404                | 3,606                   | 5,010     | 278                                 | 1,358                   | 1,636     | 6,646                                 |
| 1951.....               | 1,549                | 4,365                   | 5,914     | 460                                 | 1,349                   | 1,809     | 7,723                                 |
| 1952.....               | 4,128                | 7,869                   | 11,997    | 242                                 | 711                     | 953       | 12,950                                |
| 1953.....               | 1,273                | 13,267                  | 14,540    | 227                                 | 1,065                   | 1,292     | 15,832                                |
| 1954 <sup>1</sup> ..... | 351                  | 2,558                   | 2,909     | 208                                 | 1,133                   | 1,341     | 4,250                                 |

1. Preliminary.

TABLE 9. Imports into Canada of Plastics and Manufactures Thereof, 1953 and 1954

| Item  | Value     |           |
|---|-----------|-----------|
|   | 1953      | 1954      |
|   | \$        | \$        |
| Casings, synthetic, for meats and meat products.....  | 415,716   | 529,976   |
| Esters, or ethers, or combinations thereof, of cellulose, without admixture.....  | 1,221,520 | 1,359,360 |
| Esters, or ethers, or combinations thereof, of cellulose, compounded with other materials, for moulding, casting, extruding or pressing.....  | 930,303   | 472,294   |
| Foamed and expanded cellulose plastics in blocks, boards, granules or powder.....   | 9,149     | 39,097    |
| Compositions of esters or ethers of cellulose with other materials, n.o.p.....  | 15,091    | 35,330    |
| Cellulose plastic plates, sheets, strip, film, blocks, bars, rods, tubes or other primary shapes.....   | 1,211,077 | 1,148,279 |
| 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..... | 471,461   | 447,064   |
| Laminated moulded plastic products having cellulose plastics as the chief binding agents.....   | 196,725   | 181,559   |
| Cellulose nitrate sheets with turned edges, for the production of printers' engravings.....   | 76,319    | 107,980   |
| Manufactures of cellulose plastics, n.o.p.....  | 1,433,714 | 1,518,813 |
| Manufactures of regenerated cellulose, n.o.p.....   | 1,414,928 | 1,213,330 |

**TABLE 9. Imports into Canada of Plastics and Manufactures Thereof, 1953 and 1954 - Concluded**

| Item   | Value      |            |
|--|------------|------------|
|  | 1953       | 1954       |
|  | \$         | \$         |
| Synthetic resins without admixture .....   | 11,540,397 | 12,815,395 |
| Synthetic resins in solutions or solvents .....  | 4,404,546  | 3,608,833  |
| Synthetic resins compounded with other materials for moulding, casting or extruding, including uncured preforms or blanks for compression moulding .....   | 3,458,538  | 4,065,823  |
| Foamed and expanded synthetic resins in logs, blocks, boards, flakes, granules or powder .....   | 223,758    | 347,075    |
| Synthetic resin compositions, n.o.p. ....  | 513,773    | 1,158,871  |
| 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 .....  | 5,770,727  | 6,247,640  |
| Reinforced or supported synthetic resin 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 ..... | 899,505    | 1,121,769  |
| Laminated moulded plastic products having synthetic resins as the chief bonding agents .....   | 491,799    | 551,429    |
| Manufactures, n.o.p., of synthetic resins, or of protein plastics .....  | 8,829,805  | 9,329,697  |

**TABLE 10. Exports from Canada of Synthetic Resins and Synthetic Resin Products, 1953 and 1954**

| Item                                    | 1953       | 1954       |
|---|------------|------------|
| Synthetic resins, n.o.p. .... lb.       | 2,935,848  | 5,343,878  |
| ..... \$                                | 1,110,754  | 3,749,155  |
| Synthetic resins, manufactures of ..... | 736,084    | 804,754    |
| Polystyrene resin .....                 | 25,425,300 | 24,579,300 |
| ..... \$                                | 7,378,571  | 7,488,917  |

**TABLE 11. Exports of Synthetic Resins and Plastics from the United States to Canada, 1954**

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

| Item  | Quantity   | Value     |
|---|------------|-----------|
|   | Pounds     | \$        |
| Ester gums, except laminated .....                                      | 3,393,621  | 657,894   |
| Styrene polymer and copolymer resins, 60 per cent or more styrene ..... | 3,978,070  | 1,231,285 |
| Alkyd resins .....  | 9,407,339  | 2,310,355 |
| Vinyl and vinyl copolymer resins, uncompounded .....                    | 7,661,628  | 2,533,844 |
| Vinyl and vinyl copolymer resins, compounded .....                      | 1,184,161  | 489,655   |
| Vinyl and vinyl copolymer resins, semi-finished .....                   | 392,706    | 378,426   |
| Vinyl resin scrap in any form .....                                     | 179,883    | 42,990    |
| Tar acid resins, powder, flake, lump, etc. ....                         | 9,245,124  | 2,139,257 |
| Urea-formaldehyde, melamine-formaldehyde and other amine resins .....   | 6,510,084  | 2,078,939 |
| Resins, n.e.c., unfinished and semi-finished .....                      | 14,923,852 | 5,154,262 |
| Film and sheeting, synthetic resin .....                                | 6,227,933  | 4,904,126 |
| Phenol and cresol-formaldehyde laminated sheets, plates, etc. ....      | 720,511    | 798,729   |
| Laminated and moulded-laminated plastics, n.e.c. ....                   | 1,222,648  | 973,622   |
| Cellulose ethers and derivatives in all unfinished forms .....          | 137,455    | 116,303   |
| Cellulose nitrate scrap and film scrap .....                            | 17,231     | 5,418     |
| Cellulose nitrate sheets, rods, tubes and similar forms .....           | 155,407    | 238,793   |
| Cellulose acetate moulding and extrusion compositions .....             | 1,153,636  | 685,411   |
| Cellulose acetate plastics for other uses, in unfinished forms .....    | 2,418,503  | 1,934,350 |
| Cellulose acetate plastic scrap in any form .....                       | 43,026     | 8,317     |
| Regenerated cellulose, excluding rayon, in rolls and sheets .....       | 266,486    | 225,538   |
| Vulcanized fiber sheets, rolls and other shapes made therefrom .....    | 1,082,966  | 463,490   |



## List of Firms in the Primary Plastics Industry, 1954

| Name and location of plant   | Principal product made   |
|--|--|
| <b>Quebec:</b>   |  |
| Canadian Plastics Limited, 1850 St. Antoine St., Montreal                      | Synthetic resin (casein type)  |
| Canadian Resins & Chemicals Limited, Cedar Ave., Shawinigan Falls              | Synthetic resin (vinyl chloride type); vinyl film, sheeting and granular; dioctyl phthalate; 2 ethyl hexanol; vinyl chloride monomer |
| Dupont Company of Canada Limited, Shawinigan Falls                             | Cellulose film ("Cellophane"); cellulose sponges; polythene film and tubing  |
| Monsanto (Canada) Limited, 425 St. Patrick St., Ville La Salle                 | Synthetic resin (polystyrene and vinyl chloride types)   |
| Panelyte Division, St. Regis Paper Co. (Canada) Ltd., Montcalm Blvd., St. Jean | Synthetic resin (for own use) (phenol-formaldehyde type); laminated plastic sheets, rods and tubes; door panels                      |
| Reichhold Chemicals (Canada) Limited, Ste. Therese de Blainville               | Synthetic resin (phenol-formaldehyde and urea-formaldehyde types)  |
| <b>Ontario:</b>  |  |
| Bakelite Company, Division of Union Carbide Canada Limited, Belleville         | Synthetic resins (phenol-formaldehyde and urea-formaldehyde types); phenolic impregnated and laminated sheets; formaldehyde          |
| Canadian General Electric Co. Ltd., 940 Lansdowne Ave., Toronto                | Synthetic resin (alkyd type); insulating varnish   |
| Dow Chemical of Canada Limited, Sarnia   | Synthetic resin (polystyrene type); latex; styrene   |
| Goodrich, B.F., Chemical Co., 251 King St. W., Kitchener                       | Synthetic resin (compounded only) (vinyl chloride type); vinyl film and tape   |
| Kayson Rubber & Plastics Limited, 144 Water St. S., Galt                       | Synthetic resin (compounded only) (cellulose acetate, polystyrene and vinyl chloride types)  |
| North American Rubber & Plastics Co., Lakeview                                 | Synthetic resin (compounded only) (polyvinyl chloride type)  |
| Polyresins Limited, Beechwood Drive, Toronto                                   | Polyvinyl resinous emulsions   |
| Reichhold Chemicals (Canada) Limited, 1919 Wilson Ave., Weston                 | Synthetic resin (alkyd type)   |
| Standard Chemical Co. Ltd., Longford Mills                                     | Carboxymethylcellulose   |
| T C F of Canada Ltd., Cornwall   | Cellulose film   |
| Varcum Chemical Corp. (Canada) Ltd., St. David St., Lindsay                    | Synthetic resin (compounded only) (phenol-formaldehyde type)   |
| Woburn Chemicals Limited, 184 Laird Drive, Leaside                             | Synthetic resin (alkyd type); processed oils   |
| <b>Alberta:</b>  |  |
| Canadian Chemical Co. Ltd., Box 99, Edmonton                                   | Synthetic resin (cellulose acetate type)   |
| Canadian Industries (1954) Limited, P.O. Box 428, Edmonton                     | Synthetic resin (polyethylene type)  |
| <b>British Columbia:</b>   |  |
| American Marietta Company of Canada Limited, Keary St., New Westminster        | Synthetic resin (phenol-formaldehyde type)   |
| Reichhold Chemicals (Canada) Limited, Foot of Douglas St., Port Moody          | Synthetic resins (phenol-formaldehyde, urea-formaldehyde and protein types)  |





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