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CANADA  
DOMINION BUREAU OF STATISTICS  
MINING, METALLURGICAL AND CHEMICAL BRANCH

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# CHEMICAL AND ALLIED PRODUCTS IN CANADA

1922

Published by Authority of the Hon. Thos. A. Low, M.P.  
Minister of Trade and Commerce



OTTAWA  
F. A. ACLAND  
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY  
1924

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CHENICHT AND ALLIED PRODUCTS

THE CANNING

ASSOCIATION

## PREFACE

The manufacture of chemicals and allied products including such industries as the manufacture of coal tar and its products; acids, alkalies, salts and compressed gases; explosives, ammunition fireworks and matches; fertilizers; medicinal and pharmaceutical preparations paints, pigments and varnishes; soaps, washing compounds and toilet preparations; wood distillates and extracts and a number of other related industries such as the manufacture of baking powders, artificial abrasives, adhesives, flavouring extracts, insecticides, polishes and sweeping compounds is reviewed for 1922 in the present report which in form and subject matter is exactly comparable with the report on the same subject for 1921.

The preparation of the report has been carried out under the direction of Mr. S. J. Cook, B.A., A.I.C., F.C.I.C., Chief of the Mining, Metallurgical and Chemical Branch of the Bureau. The tabular matter was compiled by Miss Laura Pepper.

R. H. COATS,

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DOMINION BUREAU OF STATISTICS,  
Ottawa, March 22, 1924.



## TABLE OF CONTENTS

	PAGE
List of Publications.....	Inside front Cover
Preface.....	3
Table of Contents.....	5
Summary Statistics.....	6
General Review.....	7

### PART ONE—PRODUCTION STATISTICS

#### General Tables:—

Number of Plants, Values of Materials Used and Products Made by Industries and by Provinces, Imports and Exports, Tables 1 to 6.....	14
Employment Statistics by Industries and by Provinces, Tables 7 to 12.....	17
Fuel Consumption by Industries and by Provinces, Tables 13 to 16.....	19
Power Equipment by Industries and by Provinces, Tables 17 and 18.....	20
Financial Statistics—Capital employed, Summary of Expenditures, etc., by Industries and by Provinces, Tables 19 to 23.....	21
Materials Used and Products Made by Industries as follows:—	
Coal Tar and Its Products, Tables 24 and 25.....	23
Acids, Alkalies, Salts and Compressed Gases, Tables 26 and 27.....	24
Explosives, Ammunition, Fireworks and Matches, Tables 28 and 29.....	25
Fertilizers, Tables 30 to 32.....	27
Medicinal and Pharmaceutical Preparations, Tables 33 and 34.....	28
Paints, Pigments and Varnishes, Tables 35 and 36.....	29
Soaps, Washing Compounds and Toilet Preparations, Tables 37 and 38.....	30
Inks, Dyes and Colours, Tables 39 and 40.....	32
Wood Distillates and Extracts, Tables 41 and 42.....	32
Miscellaneous Chemical Industries, Tables 43 and 44.....	33

### PART TWO— DIRECTORY OF FIRMS IN THE INDUSTRIES CLASSIFIED UNDER “CHEMICALS AND ALLIED PRODUCTS”

Coal Tar and Its Products.....	35
Acids, Alkalies, Salts and Compressed Gases.....	35
Explosives, Ammunition, Fireworks and Matches.....	36
Fertilizers.....	36
Medicinal and Pharmaceutical Preparations.....	37
Paints, Pigments and Varnishes.....	38
Soaps, Washing Compounds and Toilet Preparations.....	39
Inks, Dyes and Colours.....	40
Wood Distillates and Extracts.....	41
Miscellaneous Chemical Industries, including Adhesives, Baking Powder, Boiler Compounds, Celluloid Products, Flavouring Extracts, Insecticides Polishes and Dressings, Sweeping Compounds, etc.....	41

# SUMMARY STATISTICS

Chemicals and Allied Products in Canada, for the Years 1920, 1921 and 1922.

Year	Number of Plants	Capital Employed \$	Number of Em- ployees	Salaries and Wages \$	Cost of Materials \$	Selling Value of Products \$	Value Added by Manufac- turing \$
<b>COAL AND TAR ITS PRODUCTS</b>							
1920.....	11	1,385,000	160	217,000	615,000	2,035,000	1,420,000
1921.....	9	1,503,000	114	154,000	456,000	1,183,000	727,000
1922.....	8	1,237,000	90	110,000	313,000	886,000	573,000
<b>ACIDS, ALKALIES, SALTS AND COMPRESSED GASES</b>							
1920.....	50	32,473,000	3,479	5,444,000	4,813,000	18,729,000	13,916,000
1921.....	50	34,164,000	1,814	3,005,000	5,337,000	13,869,000	8,532,000
1922.....	46	35,163,000	2,189	2,917,000	6,167,000	16,879,000	10,713,000
<b>EXPLOSIVES, AMMUNITION, FIREWORKS AND MATCHES</b>							
1920.....	21	14,690,000	2,631	2,858,000	5,772,000	12,703,000	6,931,000
1921.....	22	13,642,000	1,771	1,831,000	6,201,000	11,000,000	4,799,000
1922.....	20	12,345,000	2,123	2,031,000	8,894,000	13,789,000	4,895,000
<b>FERTILIZERS</b>							
1920.....	16	3,840,000	402	437,000	2,389,000	3,788,000	1,399,000
1921.....	15	3,209,000	274	370,000	1,696,000	2,678,000	982,000
1922.....	17	3,936,000	344	349,000	1,098,000	1,981,000	883,000
<b>MEDICINAL AND PHARMACEUTICAL PREPARATIONS</b>							
1920.....	100	12,191,000	2,838	2,965,000	7,030,000	15,728,000	8,898,000
1921.....	103	12,903,000	2,230	2,530,000	4,466,000	11,945,000	7,479,000
1922.....	109	13,995,000	2,302	2,753,000	4,145,000	11,533,000	7,387,000
<b>PAINTS, PIGMENTS AND VARNISHES</b>							
1920.....	48	20,321,000	2,568	3,431,000	15,932,000	27,042,000	11,110,000
1921.....	49	20,331,000	2,231	3,300,000	9,406,000	17,735,000	8,329,000
1922.....	53	21,074,000	2,451	3,421,000	11,355,000	20,231,000	8,876,000
<b>SOAP, WASHING COMPOUNDS, AND TOILET PREPARATIONS</b>							
1920.....	58	16,239,000	1,996	2,267,000	12,925,000	19,805,000	6,880,000
1921.....	63	16,115,000	1,871	2,160,000	8,483,000	15,308,000	6,825,000
1922.....	68	15,781,000	1,873	2,215,000	8,485,000	15,842,000	7,358,000
<b>INKS, DYES AND COLOURS</b>							
1920.....	25	1,932,000	412	613,000	1,644,000	3,289,000	1,645,000
1921.....	26	2,084,000	353	582,000	1,054,000	2,534,000	1,479,000
1922.....	26	2,147,000	416	669,000	1,070,000	2,756,000	1,686,000
<b>WOOD DISTILLATES AND EXTRACTS</b>							
1920.....	17	4,247,000	605	701,000	2,153,000	4,982,000	2,829,000
1921.....	12	2,695,000	276	327,000	987,000	2,202,000	1,215,000
1922.....	12	3,266,000	295	292,000	933,000	1,902,000	969,000
<b>MISCELLANEOUS CHEMICAL INDUSTRIES</b>							
1920.....	110	11,524,000	2,192	2,802,000	6,810,000	13,688,000	6,878,000
1921.....	120	12,061,000	1,735	2,021,000	4,827,000	10,138,000	5,311,000
1922.....	110	9,081,000	2,001	2,014,000	4,460,000	10,145,000	5,685,000
<b>ALL INDUSTRIES</b>							
1920.....	456	118,842,000	17,283	21,735,000	60,083,000	121,789,000	61,706,000
1921.....	469	118,765,000	12,669	16,280,000	42,913,000	88,592,000	45,679,000
1922.....	469	118,025,000	14,085	16,771,000	46,920,000	95,941,000	49,024,000

## DOMINION BUREAU OF STATISTICS, CANADA

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# CHEMICALS AND ALLIED PRODUCTS IN CANADA, 1922

**General Review.**—With a production of chemicals and allied products valued at \$95,944,185, importations of similar products to the extent of \$25,689,052 and exports of chemicals to other countries amounting to \$12,484,006, Canada's chemical trade in 1922 indicated a distinct advance over the record for the preceding year and showed that substantial progress was being made in every field of this increasingly important industry.

Chemical prices which in 1921 had declined about 17 per cent, mostly in the first quarter of the year, had become stabilized by the end of 1921, so that throughout 1922 there was little change in the quotations of most commodities. In this the situation in Canada did not reflect conditions in the United States where a considerable advance in chemical prices characterized the markets. Labour statistics showed that employment in a selected group of chemical industries in Canada increased in 1922 approximately 5 per cent. The value of the year's output of chemicals as reported by each of the ten groups for which the records are here given, was either maintained at about 1921 levels or increased so that on the whole these industries showed stability and conservative progress. Imports statistics reflected improved conditions in international trade, and the exports of Canadian chemicals and allied products showed a marked advance over the preceding year.

Production records in almost every industrial field during the past three years showed the effect of post-war influences. In 1919, as a result of the large scale production during the war years, the accumulation of stocks was considerably in excess of current requirements, with the result that production was much curtailed. Most of these stocks were disposed of in 1919 with the result that in the early part of 1920 an appreciable advance in prices occurred which reached a maximum about the middle of the year. This advance in prices was followed by increased production and in many industries, 1920 was a banner year. During the closing months, however, demands from consumers for lower prices became more insistent, and in 1921 a nation-wide reduction of inventories and deflation in prices occurred. At the close of that year, although prices were at a much lower level than at the beginning conditions throughout the industry were much improved and the prospects for conservative and consistent progress were much better than at any time since the close of the war. Substantial progress was made in 1922, and 1923 opened with conditions distinctly favourable for a marked advance in production reports.

In studying the production of chemicals and allied products in Canada it has been found convenient to arrange these industries in ten (10) groups, namely: coal tar and its products; acids, alkalies, salts and compressed gases; explosives, ammunition, fireworks and matches; fertilizers; medicinal and pharmaceutical preparations; pigments, paints and varnishes; soaps, perfumery, cosmetics and other toilet preparations; inks, dyes and colour compounds; wood distillates and extracts; miscellaneous chemical industries.

Of the 469 plants included in this group of industries, 246 were located in Ontario, 149 in Quebec, 25 in British Columbia, 23 in Manitoba, 10 in Nova Scotia, 9 in New Brunswick and 7 in Alberta, and the production figures for the several provinces varied from \$50,841,464 for Ontario down to \$489,863 in Alberta. The standing of the several provinces in respect to the value of products remained much as in the previous year although the total value of the output from all plants increased nearly nine million dollars over the total for the preceding year.

By industries, paints, pigments and varnishes led the list with a total production value of \$20,230,545, followed by acids, alkalies, salts and compressed gases, \$16,879,267; soaps, washing compounds and toilet preparations, \$15,841,905; explosives, ammunition, fireworks and matches, \$13,788,658; and the miscellaneous chemical industries' group, the products of which were valued at \$10,145,249. Products of the inks, dyes and colours industry, wood distillates and extracts industry and of the fertilizer industry also exceeded the million-dollar mark.

The value added by manufacturing determined as the difference between the value of products made and the cost of materials used reached a total of \$49,024,217, as compared with \$45,679,430 in the preceding year. Compared on this basis, the acids, alkalies, salts and compressed gases showed the greatest contribution to the industrial wealth, the value added in manufacturing amounting to \$10,712,798. Paints, pigments and varnishes showed \$8,875,642; medicinal and pharmaceutical preparations, \$7,387,238; soaps, washing compounds and toilet preparations, \$7,357,229; miscellaneous chemicals; explosives, ammunition, fireworks and matches; and inks, dyes and colours followed in order. In this respect the industries were unchanged from the order in which they stood in the previous year.

The total cost of materials used by all the industries during the year was \$46,919,968 and this sum included \$9,704,791 as representing the cost of intermediate products made in the reporting plants for further use in manufactures; the balance, \$37,215,177, was the cost of purchased raw materials. The consumption of intermediates which had been manufactured in the same plants was approximately four million dollars greater than in the previous year, while the cost of purchased goods was somewhat less than in 1921.

Including both salaried employees and wage-earners, 14,085 persons found employment in the industries classified under chemicals and allied products in 1922. This represented an increase of about 25 per cent over the preceding year. Salaries and wages on the other hand while greater in the aggregate by \$491,214 than in the preceding year showed an advance of only 3 per cent over the totals for 1921.

Most of the employees were engaged in Ontario and Quebec plants, these two provinces accounting for 12,623 employees in all.

The trend of employment as reflected by the records of the number of wage-earners on the rolls as at the fifteenth of each month showed a minimum of 9,308 wage-earners (excluding salaried employees) in January, from which minimum the number employed rose gradually to 10,381 in May, receded slightly during June, July and August, and then rose gradually again to a maximum of 10,837 in November. The year closed with 10,480 on the rolls in December and an average of 10,203 for the year.

The consumption of fuel was less than in 1921, the total charges for the year amounting to \$1,828,673, more than 1·5 million dollars of which was spent for bituminous coal. Only about half as much anthracite coal was burned in 1922 as in the previous year and the consumption of fuel oil and gas during the year was also reduced to about one-half of the quantity consumed in 1921.

The total capital employed in the chemicals and allied products group was only slightly less than in the preceding year and amounted in all to \$118,025,483, of which approximately one-half was invested in lands, buildings, machinery and tools, and the remainder was equally divided between the cost of materials, stocks in process, etc., and working capital. Ontario plants reported a total investment of \$63,428,197 and Quebec plants accounted for \$38,073,323. Manitoba and British Columbia were each credited with upwards of five million dollars investment; Nova Scotia, three million dollars, and New Brunswick slightly less than two million dollars. There was little change in the amount of capital invested in the several groups from the totals recorded for the preceding year.

The total selling value of all chemicals and allied products made in Canada in 1922 was approximately 95.94 million dollars; the total expenditures including wages and salaries, miscellaneous expenses, cost of fuel and raw materials amounted to 83·79 million dollars, leaving a gross profit of about 12·15 million dollars as earnings on the capital investment of \$118,025,483, or slightly more than 10·3 per cent as compared with approximately 8·4 per cent in 1921.

In certain well-defined fields, the production of chemicals in Canada has attained world-trade importance; in many other lines, production in competition with imported chemicals is being carried on successfully, and latterly, the manufacture of specific commodities for which there is a definite and continuous demand, has proved an attractive field for small concerns.

Several plants have been established, each of which specializes in the production of one or more of these necessities for the chemical trade. A study of the imports statistics shows that many such opportunities exist, and if a detailed examination of the imports invoices could be made, and the results compiled in a comprehensive way, the production in Canada of many chemicals presently only available by importation from foreign sources, would be undertaken, with every prospect of success attending the ventures.

The chemical industry, however, is one in which the would-be producer often finds himself faced with competition of a kind that is very difficult to overcome. Established concerns, who, for many years, have obtained their supplies of chemicals from a particular source, tend to be very conservative in their procedure, and, although the war, by cutting off the supply of some commodities, made it necessary for such firms to depart from their accustomed practice in many ways, the tendency to revert to former sources and methods, persists and in some lines, makes it almost impossible for a new industry to succeed.

**Coal Tar and Its Products.**—In the industrial group "Coal Tar and its Products" there have been included only those firms whose principal products were obtained by the distillation of tar or by the manufacture of commodities such as disinfectants made from coal tar and its products. Several other large plants manufacturing building papers, felts and roofing preparations as major products also made creosote oils, refined tar and pitch, but these firms' activities will be reviewed in the publication which includes "Composition Roofing."

While 9 plants were reported as operating in 1921 and only 8 are shown for 1922 the reduction is due to a transfer of one concern from this group to another industrial group owing primarily to the fact that this one concern now produces more patent roofing than straight coal-tar products. This in part explains the apparent decline in all the figures shown for the industry.

Supplementing the table of products there is a second compilation showing the production of tar-distillation products made in the composition roofing industry both in 1921 and 1922. The combined tables account for practically the total output of these products from Canadian plants.

**Acids, Alkalies, Salts, and Compressed Gases.**—The manufacture of industrial chemicals other than coal-tar products including such heavy chemicals as sulphuric, nitric and hydrochloric acids, caustic soda, salt cake and calcium carbide, and compressed gases such as oxygen, hydrogen, ammonia and acetylene dissolved in acetone has been reviewed as an industrial group, but owing to the fact that the manufacture of compressed gases differs appreciably from the manufacture of heavy chemicals, the group has been divided again into two sections; (a) acids, alkalies and salts; (b) compressed gases.

While there was a decline in the number of plants operated in this industry, the total capital employed increased approximately one million dollars over the amount recorded in 1921 and the value of the products made was greater by three million dollars than in the previous year. The cost of materials was slightly higher with the result that the value added by manufacturing amounted to 10·7 million dollars as compared with 8·5 million dollars in 1921. Employment was afforded to 2,189 persons, an increase of 375 from the previous year, but the salaries and wages showed a slight decline to a total of \$2,917,000.

(a) **ACIDS, ALKALIES AND SALTS.**—Twenty-one plants were included in this group in 1922 as compared with twenty-four plants in the preceding year, but the total capital investment increased nearly one million dollars to a total of \$30,811,922, while the salaries and wages paid to an average of 1,880 employees amounted to \$2,437,844.

In this industry more particularly than in most other industries covered by this report there are used as materials large quantities of products made in the same plants and in this respect the year 1922 showed an increase of more than one million dollars in the value of such intermediate products used. The total cost of materials, which amounted to 5·8 million dollars, included 2·6 million dollars' worth of purchased materials and 3·2 million dollars' worth of intermediate products made in the reporting plants. The production of sulphuric acid, nitric acid, calcium carbide, calcium cyanamide, and sodium and potassium compounds were the outstanding features in the production list. The quantity of hydrochloric acid produced in this industry was slightly less than in 1921. The total value of production showed an increase of more than three million dollars to a total of \$14,970,998.

(b) **COMPRESSED GASES.**—The production of compressed gases was maintained at approximately the same level as in 1921, the decline in the value of production being less than \$100,000

to a total of \$1,908,269. Oxygen, acetylene and carbon dioxide were the principal products; aqua and anhydrous ammonia, hydrogen and nitrogen were produced in less amounts. The total capital employed in the compressed gases industry was \$4,351,232 and employment was furnished to an average of 309 employees most of whom were classified as being on salary. The total salary and wage payments amounted to \$479,517. Of the 25 plants reporting under this industry, 10 were located in Ontario, 5 in Quebec, 4 in Manitoba, 3 in British Columbia, 2 in Nova Scotia, and 1 in Alberta. One plant in Ontario which was operated in 1921 was closed during the year.

The group includes all firms manufacturing oxygen, hydrogen, acetylene, carbon dioxide and ammonia. Some firms who did not manufacture their own acetylene purchased the gas and compressed it in cylinders in which form it was marketed. The manufacture of pure ammonia gas has also been recorded in this group, but the production of ammonia liquor from gas plants was excluded.

**Explosives, Ammunition, Fireworks and Matches.**—The industrial group included under the foregoing heading comprises four separate industries namely: (1) explosives, (2) ammunition, (3) fireworks, (4) matches. In the general tables these four industries have been grouped but the production of each has been shown separately for the past two years wherever possible.

Twenty plants were included under the classification Explosives, Ammunition, Fireworks and Matches. Of these, 9 were located in Quebec, which was the principal centre of the industry, the value of their products being \$9,803,697; there were 9 plants located in Ontario and 2 plants in British Columbia. The total capital employed in this industry amounted to \$12,345,000, a decline of 1·3 million dollars from the amount shown for the previous year. Employment, however showed an increase from an average of 1,771 in 1921 to 2,123 including 1,898 wage-earners and 225 salaried employees in 1922. The number of employees on the rolls on each month during the year was practically unchanged, although there was a slight peak in October when the number of wage-earners rose to 2,086. By industrial groups the average number of employees for the year was, explosives, 498; ammunition, 592; fireworks, 47; and matches, 986. Salaries and wages showed an increase of \$200,000 to a total of \$2,000,031. Materials used and products made both advanced in value, so that the value added by manufacturing remained only slightly above the total for the previous year and amounted in all to \$4,895,000.

(a) EXPLOSIVES.—One new plant for the manufacture of explosives was established in Quebec during the year, one factory in Ontario operating in 1921 was closed during 1922, and one manufacturer of explosives in British Columbia went out of business during 1922, so that at the close of the year there were 9 plants to report as compared with 10 plants in the preceding year. In spite of this reduction in the number of plants there was a slight increase in the amount of capital employed in the industry to a total of \$6,826,543, as compared with \$6,265,010 in 1921. The total value of products showed an increase of more than 1·5 million dollars to a total of \$7,963,225, including products made for sale valued at \$3,990,859 and intermediate products made for the use of the reporting firms valued at \$3,972,366. There was a decline in the value of products made for sale from 4·22 million dollars to 3·99 million dollars, but the value of the intermediates produced for further use rose from 2·17 million dollars to 3·97 million dollars. In the tables the data given show the value of intermediates made for further use and also the value of the intermediates actually used during the year.

(b) AMMUNITION.—The closure of the Dominion Government Arsenal at Lindsay and one other small concern in the ammunition industry in Ontario reduced the number of operating plants from 5 to 3 in 1922. Capital employed showed a decline of 1·3 million dollars to a total of \$3,202,561.

(c) FIREWORKS.—Four plants reported under this industry in 1922, as compared with 5 in the preceding year. The amount of capital employed amounted to \$147,417 and the products made included manufactured fireworks for sale in retail stores and also the production of exhibition displays. Some railway fusees were also manufactured. The industry is comparatively small.

(d) MATCHES.—Two new plants were put in operation in this industry in 1922, making a total of 4 concerns operating, 2 in Ontario and 2 in Quebec. For 1921 the data in the tables covering the fireworks industry and match manufacturing were combined as under the Statistics Act data regarding the operation of fewer than 3 firms in any industry may not be published. For 1922, however, separate statistics are given for both these industries. The total production of the match industry in Canada in 1922 amounted to \$2,923,998.

**Fertilizers.**—The fertilizer industry as herein reviewed includes only those plants engaged in the manufacture of fertilizers as a principal product. Mention has been made, however, of commodities such as cyanamide, ammonium sulphate, ground bone, etc., and other fertilizers and fertilizer materials produced in other industries.

The production of fertilizers by the firms classified under this industry was again less than in the previous year and amounted in all to \$1,981,000. This reduction was the more noticeable because 2 additional plants reported and more men were employed than in the preceding year, although the amount paid in salaries and wages was slightly below the report for 1921. The trend of employment showed a gradual increase in the earlier months of the year, reaching a peak in April from which time it gradually declined to a minimum in July. The recovery in August was maintained throughout the remainder of the year.

In the production tables there have been included not only the production of the fertilizer industry itself, but also the quantities and values of similar materials made in other industries. The production of cyanamide showed considerable improvement over the previous year and the production of animal tankage by the slaughtering and meat-packing industry, while less in quantity, was somewhat higher in value. The manufacture of complete fertilizers by slaughtering and meat-packing establishments, however, dropped to less than half of the quantity produced in 1921, and the production of ammonium sulphate by the by-product coke and illuminating gas industries also declined more than 21 per cent from the production in the preceding year. In spite of the decline in production thus recorded, Canada's foreign trade of commodities classified as fertilizers showed little change from the totals for the preceding year. The imports include such commodities as ammonium sulphate, cyanamide, kainit, crude muriate of potash, crude sulphate of potash, nitrate of soda, superphosphate of lime and compounded or manufactured fertilizers. The total importations of these commodities was valued in excess of 2 million dollars, or approximately one-half million dollars less in 1921. Exports of ammonium sulphate, cyanamide and manufactured fertilizers reached a valuation of \$3,226,837, as compared with \$2,259,883 in the preceding year.

**Medicinal and Pharmaceutical Preparations.**—The addition of 6 plants to this industry during 1922 raised the capital employed a full million dollars to a total of \$13,995,000. The number of employees was only slightly greater at 2,302, but salaries and wages advanced appreciably to a total of \$2,753,000. Both costs of raw materials and values of finished products were lower than in the previous year, and the total value added by manufacturing, representing the difference between the selling value of products and the cost of raw materials used, was slightly less than in the previous year and amounted to \$7,387,000. The total selling value of products made was \$11,533,000. Imported medicinal and pharmaceutical preparations mostly from the United States and the United Kingdom were slightly less than in the previous year but still amounted in total value to \$2,366,788, while exports of similar commodities were valued at less than half-a-million dollars.

The industry is largely centered in Ontario where 63 plants produced commodities valued at \$7,631,281. There were 36 plants in Quebec, producing 2.5 million dollars' worth of medicinal preparations, and 7 plants in Manitoba contributed slightly more than a million dollars' worth of products. Nova Scotia, New Brunswick and British Columbia were each represented by one plant.

**Paints, Pigments and Varnishes.**—Increased consumption in Canada of paints, pigments and varnishes marked 1922 as a year of progress in this field. Imports of paints and varnishes were nearly a million dollars higher in 1922 than in 1921 and amounted in all to \$3,439,841.

The manufacture of paints, pigments and varnishes continued to be Canada's leading chemical industry in point of production values and the output of the plants in this group in 1922 had a selling value of \$20,231,000, at which figure a gain of more than 2.5 million dollars over the previous year's returns was indicated. While the value of the output did not reach the high total established in 1920, the advance over the previous year and the fact that the value added by manufacturing also increased, marked the progress of the industry.

Exports declined slightly from the totals for the previous year, thus bearing out the statement made above that the consumption of paints and varnishes in Canada was considerably greater in 1922 than in the preceding year.

Fifty-three plants in which \$21,074,000 capital was invested, including the cost of plant and equipment, the value of stocks on hand, and the cash and other working capital, provided employment upwards of 2,400 hands in the manufacture of paints and varnishes in Canada during the year. Salaries and wages amounted to \$3,421,000 and more than 11·3 million dollars was spent for the raw materials used.

The industry is principally represented by plants in Ontario and Quebec. While Ontario plants numbered 26, and those in Quebec only 13, the production values showed that the products from the Ontario plants were worth \$7,640,938, while the output of the factories in Quebec was considerably higher at \$9,567,605. There were 3 plants in Manitoba, 9 in British Columbia, 1 in Nova Scotia and 1 in New Brunswick.

A variety of plants were included among the manufacturers of paints, pigments and varnishes in Canada in 1922. There were plants which corroded their own lead and manufactured white lead pigments; there were others which bought all their pigments and produced ready-mixed paints for domestic and commercial use. Some plants made both paints and varnishes, while others restricted their output either to paints or to varnishes. More than twice as much pig lead was corroded during 1922 as in 1921 and the consumption of basic carbonate white lead showed a corresponding increase. Most of the items in the table of materials used indicated increased consumption, though a few commodities were used in less amounts than in the preceding year. A feature of the tables in this report is that they show the production of intermediate products made by different firms for their own use and the amount of such intermediates consumed is also indicated. Of materials used during the year, 9·79 million dollars was reported as spent for purchased materials, while intermediate products made by the reporting firms and used by them during the year amounted in value to 1·56 million dollars. The production of intermediate products for further use was valued at 1·6 million dollars while the products made for sale reached a total of 18·6 million dollars, and the combined sales value of all products as indicated above was 20·23 million dollars.

**Soaps, Washing Compounds and Toilet Preparations.**—The manufacture of soaps, washing compounds and toilet preparations contributed products valued at \$15,842,000 and at this figure the group ranked third among the chemical industries of Canada.

Imports of soaps, perfumery, cosmetics and toilet preparations amounted to \$2,042,787, more than 1·4 million dollars of which was spent for products manufactured in the United States. Mention of these importations is made only to indicate the possibility for expansion in this growing industry. Five additional plants reported production in 1922, but the total capital employed fell off about \$400,000 from the totals for the previous year. The number employed remained practically unchanged at an average of 1,873, but salaries and wages paid showed a slight increase to a total of 2·21 million dollars. The cost of materials remained at about the same level as in 1921; the value of the products made was slightly higher so that the value added by manufacturing showed an increase to a total of \$7,358,000. Thirty-six plants in Ontario produced more than 10 million dollars' worth of these products, while 21 plants in Quebec contributed more than 3 million dollars' worth of soaps, washing compounds and toilet preparations. There were 5 plants in Manitoba, 3 in Alberta, 2 in British Columbia and 1 in New Brunswick, making a total of 68 plants in all.

The present report covers several distinct industries which have sufficient in common to permit of their being reviewed together. The manufacture of soaps; the related industry, the manufacture of washing compounds; and the manufacture of perfumes, cosmetics and toilet preparations are included.

(a) **THE SOAP INDUSTRY.**—Thirty-two plants reported production in this industry in 1922, including 16 in Ontario, 8 in Quebec, 3 in Manitoba, 2 in Alberta, 2 in British Columbia and 1 in New Brunswick, and the total capital employed amounted to \$13,881,099.

The average number of employees was 1,448 including 1,023 wage-earners and 425 salaried employees. Salaries and wages reached a total of \$1,752,416 while miscellaneous expenditures including such items as advertising, insurance, taxes and repairs amounted to more than 2·6 million dollars.

(b) **WASHING COMPOUNDS.**—There was a further advance in the amount of capital employed in the washing compounds industry in 1922 over the preceding year to a total of \$274,660, as compared with \$256,000 in 1921. The products made in the 13 plants reporting included washing

compounds, ammonia powder and javelle water reached a total value of \$354,328. Of the plants reporting, 8 were in Ontario, 4 in Quebec and 1 in Alberta.

Eighty-five persons were employed, including 60 wage-earners and 25 salaried employees; salaries amounted to \$75,966 and wages \$47,711, making a total of \$123,677.

The ease of manufacture and the ready market for these useful preparations probably accounted for the increased prosperity reflected in the recorded statistics.

(c) **PERFUMERY, COSMETICS AND OTHER TOILET PREPARATIONS.**—While considerable quantities of perfumes, cosmetics and toilet preparations are made as minor products of several other industries, the manufacture of these commodities as principal products has been carried on in Canada for a number of years and the present section has been prepared as a review of the activities in this growing industry.

Three additional plants were included in this group in 1922, making a total of 23 concerns, 12 of which were located in Ontario, 9 in Quebec and 2 in Manitoba. The capital employed amounted to \$1,625,485; employees numbered 341, including 249 wage-earners and 92 salaried employees; salaries and wages amounted in all to \$339,223. Expenditures for miscellaneous items such as advertising, insurance, taxes, repairs, etc., amounted to \$893,053.

**Inks, Dyes and Colours.**—The value of inks, dyes and colours produced in 1922 showed an advance over the preceding year to a total of \$2,756,006, including printing inks, valued at \$1,356,262, as a principal item. Dyes and the dye soaps were made in greater quantity and such items as mortar colours, shingle stains, hat colours, washing blue, butter colour, caramel, mucilage and paste also showed improvement.

The value of writing inks made by this industry fell off appreciably while the production of writing inks by firms classified in other industries remained at about the same level as in the previous year.

Twenty-six plants reported in this group, of which number, 13 located in Ontario produced in all more than two million dollars' worth of products. There were 7 plants in Quebec, 3 in British Columbia, while New Brunswick, Manitoba and Alberta were each represented by 1 plant.

The amount of capital employed was more than in 1921 and amounted to \$2,146,953.

**Wood Distillates and Extracts.**—The output of wood distillation products was again appreciably less than in the preceding year and reached a new low level of \$1,892,911, as compared with \$2,201,388 in 1921.

The production of charcoal while greater in quantity was considerably less in total value. Acetone, wood creosote, 28 per cent acetic acid and formaldehyde on the other hand were all produced in greater volume and reached higher total values than in the previous year. The production of sodium acetate, amounting to 49,975 pounds, was less than half the quantity produced in the previous year.

While the production of grey acetate of lime showed an appreciable increase in quantity both in the amounts produced for the use of reporting firms and in the quantities actually used, the data given do not reflect the true situation in regard to this commodity since a number of plants did not recover the lime acetate from solution, but allowed it to run to waste owing to the prevailing low price of the finished product. It is estimated that from ten to eleven million pounds of acetate of lime produced was not recovered from solution in 1921, while in 1922 approximately six million pounds was lost in the same way. The recovery in the price of this commodity towards the close of the year made the situation rather more hopeful.

As in previous reports the intermediate products made for use in further processes of manufacture have been listed in addition to the products made for sale.

The extraction of hemlock bark, the manufacture of crude potash by wood-burning, and the distillation of turpentine from wood are all industries somewhat allied to the distillation of wood for the production of acetate of lime and acetone, and for this reason these industries have always been reviewed together.

In 1922 neither hemlock bark extract nor crude potash was produced in Canada, but there was a small output of wood turpentine by the Brown Corporation at LaTuque.

**Miscellaneous Chemical Industries.**—A number of firms operating in Canada produce chemicals or allied products which do not naturally fall in any of the groups previously con-

sidered; a miscellaneous group has accordingly been made and the industries therein have been divided into nine classes, namely; adhesives, artificial abrasives, boiler compounds, flavouring extracts and jelly powders; polishes and dressings; sweeping compounds; baking powders; insecticides; and chemical products not elsewhere specified.

The principal products of the 110 firms thus grouped together have been shown by industries in the production tables; the only comment necessary is to point out that the data given in these tables do not represent the total production in Canada of the commodities mentioned, but only the output of the industries producing these commodities as their principal products. For example, large quantities of lime-sulphur solution and other insecticides are made in industries whose principal products places them in other categories. The manufacture of adhesives, flavouring extracts, etc., is carried on in other industries. The tables themselves present an example since under the "flavouring extract" industry there is shown a small production of baking powders.

### GENERAL TABLES, TABLES 1 TO 6

**Table 1.—Number of Plants and Value of Products in the Manufacture of Chemicals and Allied Products, by Industries and Provinces, 1922**

Industry	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada	
<b>COAL TAR AND ITS PRODUCTS—</b>									
Number of Plants.....	1		3	4				8	
Value of Products.....	\$		288,783	249,707				886,358	
<b>ACIDS, ALKALIES, SALTS AND COM-PRESSED GASES—</b>									
Number of Plants.....	2		13	21	4	1	5	46	
Value of Products.....	\$		3,355,087	12,674,600	265,816		397,229	16,879,267	
<b>EXPLOSIVES, AMMUNITION, FIRE-WORKS, MATCHES—</b>									
Number of Plants.....			9	9			2	20	
Value of Products.....	\$		9,803,697	1,374,396				13,788,658	
<b>FERTILIZERS—</b>									
Number of Plants.....	3	2	2	8			2	17	
Value of Products.....	\$	462,222		748,071				1,981,418	
<b>MEDICINAL AND PHARMACEUTICAL PREPARATIONS—</b>									
Number of Plants.....	1	1	36	63	7		1	109	
Value of Products.....	\$		2,573,076	7,631,281	1,168,173			11,532,536	
<b>PAINTS, PIGMENTS AND VARNISHES—</b>									
Number of Plants.....	1		13	26	3	1	9	53	
Value of Products.....	\$		9,567,605	7,640,938	1,505,383		977,160	20,230,545	
<b>SOAPS, WASHING COMPOUNDS AND TOILET PREPARATIONS—</b>									
Number of Plants.....			21	36	5	3	2	68	
Value of Products.....	\$		3,050,324	10,159,289	924,954	430,157		15,811,905	
<b>INKS, DYES AND COLOURS—</b>									
Number of Plants.....	1		7	13	1	1	3	26	
Value of Products.....	\$		645,448	2,020,728			32,037	2,756,006	
<b>WOOD DISTILLATES AND EXTRACTS—</b>									
Number of Plants.....			6	6				12	
Value of Products.....	\$		980,457	921,786				1,902,243	
<b>MISCELLANEOUS CHEMICAL INDUS-TRIES—</b>									
Number of Plants.....	2	4	38	60	3	1	1	110	
Value of Products.....	\$	85,808	2,563,427	7,420,668	40,370			10,115,249	
<b>TOTAL—</b>									
Number of Plants.....	10	9	149	246	23	7	25	469	
Value of Products.....	\$	1,626,265	1,536,598	32,916,142	50,841,464	3,956,564	489,863	4,577,389	95,914,185
<b>1921 TOTAL—</b>									
Number of Plants.....	11	10	139	256	22	6	25	469	
Value of Products.....	\$	2,181,326	1,729,687	28,212,615	48,592,587	3,643,815	458,824	3,713,608	88,592,512

**Table 2.—Materials Used, Products Made and Value Added by Manufacturing in the Manufacture of Chemicals and Allied Products, in Canada, by Industries, 1921**

Industry	Cost of Materials		Value of Products		Value Added by Manufacturing
	Purchased	Made by Reporting Firms	Made for Use	Made for Sale	
Coal Tar and its Products.....	\$ 427,174	29,300	\$ (1,183,130)	\$ 728,656	
Acids, Alkalies, Salts and Compressed Gases.....	3,154,535	2,182,033	(13,869,166)	8,532,598	
Explosives, Ammunition, Fireworks and Matches.....	4,029,611	2,171,589	2,171,589	8,828,255	4,798,644
Fertilizers.....	1,696,205			2,677,735	981,530
Medicinal and Pharmaceutical Preparations.....	4,466,001			11,045,435	7,479,434
Paints, Pigments and Varnishes.....	8,868,042	537,444	563,100	17,172,190	8,329,804
Soups, Washing Compounds and Toilet Preparations.....	8,482,704			15,307,821	8,825,117
Inks, Dyes and Colours.....	1,054,195			2,533,480	1,479,285
Wood Distillates and Extracts.....	597,417	389,607	449,331	1,752,983	1,215,290
Miscellaneous Chemical Industries.....	4,827,225			10,138,297	5,311,072
<b>Total.....</b>	<b>37,603,109</b>	<b>5,309,973</b>		<b>88,592,512</b>	<b>45,679,340</b>

**Table 3.—Materials Used, Products Made and Value Added by Manufacturing in the Manufacture of Chemicals and Allied Products in Canada, by Industries, 1922**

Industry	Cost of Materials		Value of Products		Value Added by Manufacturing
	Purchased	Made by Firms Reporting	Made for Use	Made for Sale	
Coal tar and its products.....	\$ 307,038	6,303	\$ (886,358)	\$ 573,017	
Acids, Alkalies, Salts and Compressed Gases.....	2,951,843	3,214,626	(16,879,267)	10,712,708	
Explosives, Ammunition, Fireworks and Matches.....	4,402,759	4,490,981	4,490,981	9,297,677	4,894,918
Fertilizers.....	1,098,230			1,981,418	883,188
Medicinal and Pharmaceutical Preparations.....	4,145,298			11,532,536	7,387,238
Paints, Pigments and Varnishes.....	9,790,603	1,564,300	1,607,240	18,623,395	8,875,042
Soups, Washing Compounds and Toilet Preparations.....	8,484,676			15,841,905	7,357,229
Inks, Dyes and Colours.....	1,070,287			2,756,006	1,685,719
Wood Distillates and Extracts.....	504,086	428,581	453,364	(448,879	960,576
Miscellaneous Chemical Industries.....	4,460,357			10,145,249	5,684,892
<b>Total.....</b>	<b>37,215,177</b>	<b>9,704,791</b>		<b>85,944,185</b>	<b>49,024,217</b>

**Table 4.—Materials Used, Products Made and Value Added by Manufacturing in the Manufacture of Chemicals and Allied Products, in Canada, by Provinces, 1921**

Province	Cost of Materials		Selling Value of Products including Products Made for Use and for Sale	Value Added by Manu- facturing
	Purchased	Made by Firms Reporting		
Nova Scotia.....	\$ 785,241	956	\$ 2,181,326	\$ 1,395,129
New Brunswick.....	957,162		1,729,687	772,525
Quebec.....	12,519,196	1,604,439	28,242,645	14,119,010
Ontario.....	19,831,688	3,139,519	48,592,587	25,621,380
Manitoba.....	1,695,539	28,927	3,643,815	1,910,349
Alberta.....	224,976		458,824	233,848
British Columbia.....	1,589,307	536,132	3,743,628	1,618,189
<b>Canada.....</b>	<b>37,603,109</b>	<b>5,309,973</b>	<b>88,592,512</b>	<b>45,679,340</b>

**Table 5.—Materials Used, Products Made and Value Added by Manufacturing in the Manufacture of Chemicals and Allied Products in Canada, by Provinces, 1922**

Province	Cost of Materials		Selling Value of Products including Products Made for Use and for Sale	Value Added by Manu- facturing
	Purchased	Made by Firms Reporting		
Nova Scotia.....	\$ 495,796	1,641	\$ 1,626,265	\$ 1,128,828
New Brunswick.....	1,023,349		1,536,598	513,249
Quebec.....	13,667,046	4,368,255	32,916,142	14,879,941
Ontario.....	18,302,670	3,954,393	50,841,404	28,584,401
Manitoba.....	1,833,429	146,097	3,958,564	1,977,038
Alberta.....	249,228		489,863	240,635
British Columbia.....	1,642,759	1,234,405	4,577,289	1,700,125
<b>Canada.....</b>	<b>37,215,177</b>	<b>9,704,791</b>	<b>85,944,185</b>	<b>49,024,217</b>





Table 11.—Yearly Average Number of Wage-earners Employed in the Manufacture of Chemicals and Allied Products in Canada by Provinces and by Industries, 1922

Province	Coal Tar and Its Products	Acids, Alkalies, Salts and Compressed Gases	Explosives, Ammunition, Fireworks and Matches	Fertilizers	Medicinal and Pharmaceutical Preparations
Nova Scotia.....	25	9	.....	120	11
New Brunswick.....	.....	.....	.....	41	8
Quebec.....	20	480	1,480	10	386
Ontario.....	21	1,100	286	63	970
Manitoba.....	.....	17	.....	.....	114
Alberta.....	.....	5	.....	.....	.....
British Columbia.....	.....	38	132	16	3
<b>Canada.....</b>	<b>66</b>	<b>1,649</b>	<b>1,898</b>	<b>250</b>	<b>1,492</b>

Province	Paints, Pigments and Varnishes	Soaps, Washing Compounds and Toilet Preparations	Inks, Dyes and Colours	Wood Distillates and Extracts	Miscellaneous Chemical Industries	All Industries
Nova Scotia.....	56	.....	.....	.....	10	231
New Brunswick.....	45	1	106	4	4	29
Quebec.....	920	318	74	389	53	4,181
Ontario.....	455	827	188	151	953	5,014
Manitoba.....	104	62	9	.....	4	310
Alberta.....	1	37	1	.....	1	45
British Columbia.....	84	45	4	.....	1	323
<b>Canada.....</b>	<b>1,620</b>	<b>1,332</b>	<b>277</b>	<b>257</b>	<b>1,362</b>	<b>10,203</b>

Table 12.—Number of Wage-earners Employed in the Manufacture of Chemicals and Allied Products in Canada by Months and by Industries, 1922

Month	Coal Tar and Its Products	Acids, Alkalies, Salts and Compressed Gases	Explosives, Ammunition, Fireworks and Matches	Fertilizers	Medicinal and Pharmaceutical Preparations
January.....	65	1,202	1,744	234	1,378
February.....	54	1,259	1,839	247	1,468
March.....	47	1,385	1,855	315	1,519
April.....	56	1,448	1,908	412	1,492
May.....	99	1,575	1,881	346	1,515
June.....	61	1,609	1,897	209	1,473
July.....	60	1,740	1,811	155	1,490
August.....	58	1,817	1,810	200	1,513
September.....	52	1,803	1,976	217	1,572
October.....	61	1,960	2,088	207	1,582
November.....	101	2,069	1,997	213	1,527
December.....	73	1,924	1,950	240	1,373
<b>Average.....</b>	<b>66</b>	<b>1,649</b>	<b>1,898</b>	<b>250</b>	<b>1,492</b>

Month	Paints, Pigments and Varnishes	Soaps, Washing Compounds and Toilet Preparations	Inks, Dyes and Colours	Wood Distillates and Extracts	Miscellaneous Chemical Industries	All Industries
January.....	1,487	1,302	267	359	1,270	9,308
February.....	1,567	1,260	267	330	1,382	9,673
March.....	1,623	1,277	276	309	1,417	10,023
April.....	1,702	1,290	282	217	1,358	10,165
May.....	1,758	1,335	285	164	1,423	10,381
June.....	1,738	1,358	280	157	1,491	10,273
July.....	1,698	1,316	278	152	1,269	9,569
August.....	1,617	1,343	281	172	1,271	10,082
September.....	1,537	1,358	287	236	1,392	10,430
October.....	1,570	1,393	276	306	1,345	10,786
November.....	1,571	1,391	278	337	1,353	10,837
December.....	1,576	1,354	276	347	1,358	10,480
<b>Average.....</b>	<b>1,620</b>	<b>1,332</b>	<b>277</b>	<b>257</b>	<b>1,362</b>	<b>10,203</b>









**Table 21.—Summary of Financial Statistics Relative to the Manufacture of Chemicals and Allied Products in Canada, by Industries, 1922**

Industry	Capital Employed	Expenditures					Selling Value of Products
		Wages and Salaries	Miscel. laneous Expenses	Fuel	Cost of Materials	Total	
Coal Tar and Its Products . . . . .	\$ 1,237,077	\$ 110,026	\$ 124,147	\$ 40,873	\$ 313,341	\$ 588,387	\$ 886,358
Acids, Alkalies, Salts and Compressed Gases . . . . .	35,163,154	2,917,361	3,893,029	547,573	6,166,469	13,524,432	16,879,267
Explosives, Ammunition, Fireworks and Matches . . . . .	12,345,296	2,030,877	1,402,134	195,046	8,893,740	12,521,797	13,788,658
Fertilizers . . . . .	3,935,467	348,879	564,299	42,353	1,095,230	2,053,761	1,981,418
Medicinal and Pharmaceutical Preparations . . . . .	13,995,461	2,752,680	3,029,869	66,456	4,145,298	9,904,303	11,532,536
Paints, Pigments and Varnishes . . . . .	21,073,708	3,421,217	2,953,474	244,507	11,354,903	17,974,101	20,230,545
Soups, Washing Compounds and Toilet Preparations . . . . .	15,781,244	2,215,316	3,587,493	331,401	8,484,676	14,618,886	15,841,905
Inks, Dyes and Colours . . . . .	2,146,953	668,719	653,054	15,200	1,070,287	2,408,160	2,756,006
Wood Distillates and Extracts . . . . .	3,263,882	292,229	106,495	196,258	932,667	1,527,649	1,902,243
Miscellaneous Chemical Industries . . . . .	9,081,243	2,013,409	1,957,634	149,006	4,460,357	8,580,496	10,145,249
<b>Total</b>	<b>118,025,483</b>	<b>16,770,803</b>	<b>18,272,528</b>	<b>1,828,673</b>	<b>46,919,968</b>	<b>83,791,972</b>	<b>95,944,185</b>

**Table 22.—Summary of Financial Statistics Relative to the Manufacture of Chemicals and Allied Products in Canada, by Provinces, 1921**

Province	Capital Employed	Expenditures					Selling Value of Products
		Wages and Salaries	Miscel. laneous Expenses	Fuel	Cost of Materials	Total	
Nova Scotia . . . . .	\$ 3,390,645	\$ 343,397	\$ 423,225	\$ 62,216	\$ 780,197	\$ 1,615,035	\$ 2,181,326
New Brunswick . . . . .	942,193	165,208	176,116	22,104	957,162	1,320,590	1,729,687
Quebec . . . . .	38,423,607	5,330,411	4,823,146	639,004	14,123,635	24,925,196	28,242,645
Ontario . . . . .	64,360,728	9,072,316	10,738,253	1,189,028	22,071,207	43,070,804	48,592,587
Manitoba . . . . .	5,330,840	595,060	635,146	43,039	1,724,466	2,998,611	3,643,815
Alberta . . . . .	655,510	84,298	64,061	4,822	224,976	378,757	458,824
British Columbia . . . . .	5,601,966	6,8,999	621,048	70,676	2,125,439	3,496,762	3,743,628
<b>Canada</b>	<b>118,765,480</b>	<b>16,279,589</b>	<b>17,482,195</b>	<b>2,830,889</b>	<b>42,913,682</b>	<b>78,765,755</b>	<b>88,592,512</b>

**Table 23.—Summary of Financial Statistics Relative to the Manufacture of Chemicals and Allied Products in Canada, by Provinces, 1922**

Province	Capital Employed	Expenditures					Selling Value of Products
		Wages and Salaries	Miscel. laneous Expenses	Fuel	Cost of Materials	Total	
Nova Scotia . . . . .	\$ 3,128,224	\$ 301,649	\$ 378,904	\$ 51,177	\$ 497,437	\$ 1,229,167	\$ 1,626,265
New Brunswick . . . . .	1,850,410	153,457	216,185	24,866	1,023,349	1,417,857	1,530,598
Quebec . . . . .	38,073,323	5,955,271	4,588,437	555,613	18,036,201	29,135,522	32,916,142
Ontario . . . . .	63,428,197	9,008,281	12,002,074	1,107,162	22,257,063	44,375,180	50,841,464
Manitoba . . . . .	5,272,488	572,880	536,657	46,985	1,979,526	3,136,018	3,056,564
Alberta . . . . .	584,765	87,803	88,575	8,262	249,228	433,868	489,863
British Columbia . . . . .	5,688,076	691,492	461,096	34,608	2,877,104	4,064,360	4,577,289
<b>Canada</b>	<b>118,025,483</b>	<b>16,770,803</b>	<b>18,272,528</b>	<b>1,828,673</b>	<b>46,919,968</b>	<b>83,791,972</b>	<b>95,944,185</b>

### MATERIALS USED AND PRODUCTS MADE—TABLES 24 to 44.

**Table 24.—Materials Used in the Coal Tar and its Products Industry in Canada, 1921 and 1922**

	Unit of Measure	1921		1922	
		Quantity	Cost	Quantity	Cost
COAL TAR DISTILLATION— Purchased Materials—					
Coal tar, crude . . . . .	Gal.	9,616,287	\$ 339,579	7,336,485	\$ 260,394
Other materials . . . . .		—	51,619	—	2,449
Intermediates . . . . .		—	391,198	—	262,843
Total . . . . .		—	29,300	—	6,303
DISINFECTANTS— Total . . . . .		—	420,498	—	269,146
Total . . . . .		—	35,976	—	44,195
Total . . . . .		—	456,474	—	313,341



Table 27.—Products of the Acids, Alkalies, Salts and Compressed Gases Industry in Canada, 1921 and 1922

	Unit of Measure	1921		1922	
		Quantity	Value	Quantity	Value
<b>ACIDS, ALKALIES AND SALTS—</b>					
Acids:			\$		\$
Hydrochloric—20°Bé.....	lb.	5,116,499	93,836	5,006,429	82,668
Nitric—100%.....	"	716,458	89,227	944,631	106,248
Sulphuric—60°Bé.....	ton	47,195	990,101	61,324	1,193,820
Calcium carbide.....		70,794	4,728,465	69,023	5,323,453
Calcium cyanamide.....	"	25,291	1,486,733	35,044	1,847,064
Sodium sulphate—					
Glauber's salt.....	"	1,239	42,719	1,906	54,997
Salt cake.....	"	1,919	47,516	2,075	47,292
Other sodium and potassium compounds <sup>1</sup> .....		—	1,842,481	—	4,373,887
All other products <sup>2</sup> .....		—	2,546,170	—	1,941,569
		—	11,867,268	—	14,970,998
Total.....		—		—	
<b>COMPRESSED GASES—</b>					
Oxygen.....	cu. ft.	53,612,271	833,991	52,448,907	775,073
Acetylene.....	"	15,663,702	405,514	17,631,590	420,073
Carbon dioxide.....	lb.	3,567,431	385,950	3,263,908	306,740
Other products <sup>3</sup> .....		—	376,443	—	352,383
		—	2,001,898	—	1,908,269
Total.....		—	13,869,166	—	16,879,267

<sup>1</sup> Includes bisulphites, bisulphite, chlorates, citrates, cyanides, hydroxides and iodides.<sup>2</sup> Includes acetic acid made by Grasselli Chemical Co., Ltd., acetic glacial made by Canadian Electro Products Co., Ltd., calcium hypochlorite (bleach) made by Canadian Salt Co., phosphor made by Electric Reduction Co., Ltd., soda ash made by Brunner, Mond & Co., Ltd., and various other products and by-products.<sup>3</sup> Includes aqua and anhydrous ammonia, hydrogen and nitrogen each made by one firm.

Table 28.—Materials Used in the Explosives, Ammunition, Fireworks and Matches Industry, in Canada, 1921 and 1922

	Unit of Measure	1921		1922	
		Quantity	Cost at Works	Quantity	Cost at Works
<b>EXPLOSIVES INDUSTRY—</b>					
Ammonium nitrate.....	lb.	2,213,154	178,292	2,206,652	141,201
Calcium carbonate (chalk).....	"	211,317	3,356	179,277	1,913
Glycerine.....	"	2,798,292	525,511	2,530,698	400,567
Graphite.....	"	2,485	187	2,649	230
Mixed acids and oleum.....	"	9,217,957	197,006	12,717,333	261,247
Nitric acid.....	"	418,982	35,544	2,164,397	148,850
Petrolatum.....	"	12,964	678	8,721	407
Other petroleum products chiefly paraffin wax.....	"	482,492	28,745	485,957	17,922
Nitro or pyro cotton.....	"	84,830	49,083	74,928	42,166
Sodium carbonate.....	"	—	3,501	238,680	5,315
Sodium chloride.....	"	335,375	4,740	406,634	4,040
Sodium nitrate.....	"	17,384,633	601,056	17,319,469	456,142
Trinitrotoluene.....	"	168,700	32,101	239,295	43,488
Sugar and its derivatives.....	"	25,542	2,200	38,174	20,083
Flour.....	"	623,755	16,365	751,584	14,297
Wood pulp.....	"	919,445	34,214	821,014	20,703
All other miscellaneous materials.....	"	—	409,950	—	525,339
		—	2,122,529	—	2,104,000
Total.....		—	2,171,589	—	3,972,366
Intermediate Products used as materials.....		—	4,294,118	—	6,076,366
Total.....		—	777,160	—	1,329,824
<b>AMMUNITION INDUSTRY—</b>					
Purchased materials used.....		—	—	—	811,209
Intermediate products used.....		—	—	—	518,615
Total.....		—	777,160	—	1,329,824
<b>FIREWORKS INDUSTRY—</b>					
Total.....		—	2	—	65,535
<b>MATCH INDUSTRY—</b>					
Lumber and splints.....	lb.	—	—	—	655,886
Wax.....	"	—	—	1,007,946	34,060
Glue.....	"	—	—	164,159	42,838
Chemicals.....	"	—	—	2,286,690	224,957
Containers.....		—	—	—	376,879
All other materials.....		—	—	—	84,415
		—	1,129,922 <sup>2</sup>	—	1,419,015
Total.....		—	6,201,260	—	8,893,740

<sup>1</sup> Includes potash, zinc oxide, siccus sulphide of phosphorus, sulphur, whiting, chlorate of potash, resin, etc.<sup>2</sup> As there were only two firms engaged in the manufacture of matches the materials used in the fireworks and match industry have been combined.

**Table 29.—Products of the Explosives, Ammunition, Fireworks and Match Industry  
in Canada, 1921 and 1922**

	Unit of Measure	1921		1922	
		Quantity	Selling Value	Quantity	Selling Value
<b>EXPLOSIVES INDUSTRY—</b>			\$		\$
<i>Products Made For Sale—</i>					
Class 1—					
Gunpowder.....	lb.	97,000	41,581	148,357	49,357
Class 2—					
Nitrate mixtures.....	"	863,000	103,134	1,969,325	188,66
Class 3—Nitro compounds—					
Division 1—					
Dynamites.....	"	6,864,000	1,183,910	8,250,577	1,276,400
Gelatine dynamites.....	"	11,391,000	2,225,581	15,890,215	1,745,896
Monobols.....	"	1,448,000	270,738	2,010,848	347,746
Propellants.....	"	87,000	131,358	10,040	15,060
Division 2.....	"	108,000	17,963	—	—
Class 4—Chlorate mixture—					
Division 2.....	"	130,000	26,096	115,700	21,639
Total powder and blasting explosives in bulk.....		20,988,000	4,000,367	—	3,642,762
Other products and by-products.....		—	220,496	—	348,097
<b>Total products made for sale.....</b>		—	<b>4,229,863</b>	—	<b>3,990,850</b>
<i>Intermediate Products Made For Use—</i>					
Nitric acids.....	lb.	4,043,543	338,688	5,357,162	547,517
Mixed acids.....	"	—	—	3,236,067	149,138
Recovered acids.....	"	15,084,520	290,231	5,441,828	69,426
Ammonium nitrate.....	"	—	—	2,452,393	255,638
Nitroglycerine.....	"	5,935,189	1,291,726	5,685,264	1,406,161
All other intermediate products.....	"	—	250,044	—	1,454,486
<b>Total intermediates made for use.....</b>	"	—	<b>2,171,589</b>	—	<b>3,972,366</b>
<b>Total.....</b>		—	<b>6,401,452</b>	—	<b>7,963,225</b>
<b>AMMUNITION INDUSTRY—</b>					
<i>Class 6 Ammunition—</i>					
Division—					
Safety cartridges.....	No.	66,674,382	1,338,616	—	—
Safety fuse.....		—	—	—	—
Railway signals.....		—	—	—	—
Percussion caps.....		—	—	—	—
Division 2 and 3—					
Detonators, electric detonators and primers.....	No.	9,913,637	560,052	—	—
All other products.....		—	386,705	—	—
Total products made for sale.....		—	2,285,373	—	2,180,727
Intermediate products made for use.....		—	—	—	518,615
<b>Total.....</b>		—	<b>2,285,373</b>	—	<b>2,708,342</b>
<b>FIREWORKS INDUSTRY—</b>					
<i>Class 7 Fireworks—</i>					
Division 2—					
Manufactured fireworks for retail stores and exhibition displays together with railway signal fuses .....		—	—	—	177,162
All other products.....		—	—	—	15,931
Total.....		—	—	—	193,093
<b>MATCH INDUSTRY—</b>					
<i>Total.....</i>		—	2,313,019	—	2,023,998
<b>Total.....</b>		—	<b>10,993,844</b>	—	<b>13,270,043</b>

<sup>1</sup> Includes mercury fulminate, sodium sulphate, nitre cake, fertilizers, superphosphate of lime, and various other products.

<sup>2</sup> As only two firms were engaged in the manufacture of matches during 1921, the production of matches and fireworks was combined. The selling value shown is exclusive of excise tax paid on match sales.

















**PART TWO.— DIRECTORY OF FIRMS ENGAGED IN THE MANUFACTURE OF CHEMICALS AND ALLIED PRODUCTS.**

**Coal Tar and its Products.**

Name	Head Office Address	Location of Plant
<b>COAL TAR DISTILLATION—</b>		
<i>Nova Scotia—</i> The Dominion Tar & Chemical Company, Limited.	354 Salisbury House, London Wall, E.C. 2, London, England	Sydney.
<i>Quebec—</i>		
The Dominion Tar & Chemical Company, Limited.	354 Salisbury House, London Wall, E.C. 2, London, England	Allard St., Ville la Salle
<i>Ontario—</i> The Dominion Tar & Chemical Company, Limited.	354 Salisbury House, London Wall, E.C. 2, London, England	Sault Ste. Marie.
<b>DISINFECTANTS—</b>		
<i>Quebec—</i> Robert W. Rowe, Limited..... West Disinfecting Company.....	249 Grand Trunk St., Montreal..... 301 Casgrain St., Montreal.....	Montreal. Montreal.
<i>Ontario—</i> Canadian Germicide Co., Ltd. The Norman C. Huyner Co.	1 Howard Park Ave., Toronto..... Rochester, N.Y., U.S.A.	Toronto. Rear 183 Huron St., Toronto. Toronto.
Polusterine Products Co. of Canada Limited	168 Ontario Street, Toronto.....	

**Acids, Alkalies Salts and Compressed Gases**

<b>ACIDS, ALKALIES AND SALTS—</b>		
<i>Quebec—</i> Canada Carbide Company Limited.....	611 Power Bldg., Montreal.....	Transmission Ave., Shawinigan Falls.
Canadian Electro Products Co., Ltd.....	611 Power Bldg., Montreal.....	Transmission Ave., Shawinigan Falls.
John Cowan Chemical Co., Ltd..... Electric Reduction Co., Ltd..... Laporte Irwin, Limited..... Les Usines Chimiques du Canada Ltée..... National Drug & Chemical Co. of Canada, Ltd..... The Nichols Chemical Co., Ltd.....	9 Dalhousie St., Montreal..... Oldbury, England..... 20 St. Paul St., West, Montreal..... 37 rue Grothé and 51 rue Dubé, Montreal..... 36 St. Gabriel St., Montreal..... 222 St. James St., Montreal.....	Montreal. Montreal. Montreal. Montreal. Capelton.
<i>Ontario—</i> American Cyanamid Company..... Brunner, Mond Canada, Ltd..... The Canadian Hanson & Van Winkle Co., Limited..... The Canadian Salt Co., Ltd..... Chemical Products Limited..... The Grasselli Chemical Co., Limited..... The Lyman Bros., Co., Ltd..... William Moss..... The Nichols Chemical Co., Ltd..... Union Carbide Co. of Canada..... Yocom Faust Limited.....	511 Fifth Ave., New York, N.Y..... Canadian Bank of Commerce Bldg, Toronto..... 15-25 Morrow Ave., Toronto..... 719 Sandwich St., W., Windsor..... Trenton..... Burlington St., Hamilton..... 71 Front St., E., Toronto..... Foot of Carlaw Ave., Toronto..... 222 St. James St., Montreal, Que..... 46 King St. W., Toronto..... 123 St. George St., London.....	Niagara Falls. Amherstburg. Toronto. Riverfront St., Sand- wich. Trenton. Hamilton. 179 Front St. E., Toronto Toronto. Sulphide. Welland. London.
<i>British Columbia—</i> The Consolidated Mining and Smelting Co. of Canada Ltd..... The Nichols Chemical Co., Ltd.....	Drummond Bldg., Montreal, Que..... 222 St. James St., Montreal, Que.....	Trail. Barnet.
<b>COMPRESSED GASES—</b>		
<i>Nova Scotia—</i> Canadian Carbonate Limited..... L'Air Liquide Society.....	1 Hadley St., Montreal, Que..... 16 Boler St., West Toronto, Ont.....	Stairs St., Dartmouth. Cor. Kane & Agricola Sts., Halifax.
<i>Quebec—</i> Canadian Carbonate Limited..... Dominion Oxygen Co., Limited..... L'Air Liquide Society..... National Electro Products, Ltd..... Prest-O-Lite Co. of Canada, Ltd.....	1 Hadley St., Montreal,..... 46 King St. West, Toronto, Ont..... 16 Boler St., West Toronto, Ont..... 85 Church St., Toronto, Ont..... 46 King Street West, Toronto, Ont.....	Montreal. 225 Bourgeois St., Mon- treal. Viau and Rouen Sts., Montreal. 149 Moreau St., Mon- treal. Transmission Ave., Sha- winigan Falls.
<i>Ontario—</i> Canadian Ammonia Co., Ltd..... Canadian Carbonate Ltd..... Canadian Carbonate Ltd..... Commercial Acetylene Co. of Canada, Ltd..... Dominion Oxygen Company, Ltd..... L'Air Liquide Society.....	65-87 Heward Ave., Toronto..... 1 Hadley St., Montreal, Que..... 1 Hadley St., Montreal, Que..... 72 Queen St. West, Toronto..... 46 King St. West, Toronto..... 16 Boler St., West Toronto.....	Toronto. Simcoe St., Hamilton. 6 Wabash Ave., Toronto 9 Noble St., Toronto. Hillerest Park, Toronto. York St., London.

**Acids, Alkalies, Salts and Compressed Gases—concluded**

Name	Head Office Address	Location of Plant
<i>Ontario—concluded—</i>		
L'Air Liquide Society.....	16 Boler St., West Toronto.....	West Toronto.
National Electro Products Ltd.....	85 Church St., Toronto.....	295 Dufferin St., Toronto.
The Peoples Gas Supply Co., Ltd.....	2 Mill St., Ottawa.....	Ottawa.
Prest-O-Lite Co., of Canada Ltd.....	46 King St. West, Toronto.....	Merriton.
<i>Manitoba—</i>		
Auto Lite Gas Co., Ltd.....	456 Lipton St., Winnipeg.....	Winnipeg.
Canadian Carbonate Ltd.....	1 Hadley St., Montreal, Que.....	Archibald St., St. Boniface.
L'Air Liquide Society.....	16 Boler St., West Toronto, Ont.....	1297 Pine St., Winnipeg.
Prest-O-Lite Company of Canada Limited.....	46 King St. West, Toronto, Ont.....	Tache Ave., St. Boniface.
<i>Alberta—</i>		
L'Air Liquide Society, Ltd.....	16 Boler St., West Toronto, Ont.....	202 First Ave. E., Calgary.
<i>British Columbia—</i>		
Canadian Carbonate Ltd.....	1 Hadley St., Montreal, Que.....	Cor. 11th Ave. and Yew St., Vancouver.
Compressed Gas Co., Ltd.....	1530 Hastings St., East Vancouver.....	Vancouver.
L'Air Liquide Society.....	16 Boler St., West Toronto.....	Cor. Fifth Ave. and Yukon St., Vancouver.

**Explosives, Ammunition, Fireworks and Matches**

<b>EXPLOSIVES—</b>		
<i>Quebec—</i>		
Canadian Explosives Ltd.....	120 St. James St., Montreal.....	McMasterville.
Canadian Explosives Ltd.....	120 St. James St., Montreal.....	Windsor Mills.
Northern Explosives Ltd.....	Parish of Rigaud.....	Rigaud.
<i>Ontario—</i>		
Canadian Explosives Ltd.....	120 St. James St., Montreal, Que.....	Nobel.
J. J. Henev.....	Ottawa.....	Prescott.
National Explosives Co., Ltd.....	714 Sparks St., Ottawa.....	Camp Mohawk.
Thompson Powder Co., Ltd.....	Deseronto.....	Deseronto.
<i>British Columbia—</i>		
Canadian Explosives Ltd.....	120 St. James St., Montreal, Que.....	James Island.
Giant Powder Co. of Canada Limited.....	Bank of Nova Scotia Bldg., Vancouver.....	Nanose Bay.
<b>AMMUNITION—</b>		
<i>Quebec—</i>		
Canadian Safety Fuse Co., Ltd.....	120 St. James St., Montreal.....	Brownsville.
Dominion Cartridge Co., Ltd.....	120 St. James St., Montreal.....	Brownsville.
Dominion Arsenal.....	8 Carleton St., Quebec.....	Quebec.
<b>FIREWORKS—</b>		
<i>Quebec—</i>		
Central Railway Signal Co.....	230 Bayston St., Boston, Mass.....	Iberville.
<i>Ontario—</i>		
T. W. Hand Firework Co., Ltd.....	611 King St., W., Hamilton.....	Hamilton.
Toronto Fireworks Co., Ltd.....	Spectator Bldg. 28 James St. South, Hamilton.....	Islington.
Dominion Russo.....	Cornwall.....	Cornwall.
<b>MATCHES—</b>		
<i>Quebec—</i>		
The E. B. Eddy, Co., Ltd.....	Hull.....	Hull.
The Match Co., Ltd.....	137 McGill St., Montreal.....	Berthierville.
<i>Ontario—</i>		
The Canadian Match Co., Ltd.....	Water St., Pembroke.....	Pembroke.
The Dominion Match Co., Ltd.....	Main St., Deseronto.....	Deseronto.

**Fertilizers**

<b>NOVA SCOTIA—</b>		
Colonial Fertilizer Co.....	40 North Market St., Boston, Mass., U.S.A.....	Windsor.
The Cross Fertilizer Co., Ltd.....	Prince St., Sydney.....	Sydney.
Nova Scotia Fertilizer Co., Ltd.....	Halifax.....	Fairview.
<b>NEW BRUNSWICK—</b>		
The Dominion Fertilizer Co., Limited.....	61 Broadway, New York, N.Y., U.S.A.....	Prince William St., St. Stephen.
St. John Fertilizer Co.....	500 Chesley St., St. John.....	St. John.
<b>QUEBEC—</b>		
Capleton Chemical and Fertilizer Co.....	Buckingham.....	Masson.
Tanguay Limitée.....	48 St. Paul St., Quebec.....	118-120 St. Andrew St., Quebec.

## Fertilizers—concluded

Name	Head Office Address	Location of Plant
<i>Ontario</i> —		
Canadian Fertilizer Co., Ltd.	Market Bldg., Chatham	End of King St. E., Chatham.
The Farmers' Fertilizer Co., Limited	Josephine St., Wingham	Wingham.
W. A. Freeman Co., Ltd.	Cor. Hunter St. & Ferguson Avenue, Hamilton	Terra Cotta Ave., Hamilton.
Ontario Fertilizers Ltd.	Harris Road, West Toronto	Harris Road, West Toronto.
Pt. Stanley Supply Co., Ltd.	Port Stanley	Port Stanley.
Scottish Fertilizers Ltd.	Welland Jet., Township of Humberstone, Welland	Welland.
William Stone Sons, Ltd.	Woodstock	Ingersoll.
Cyrus Witts	R.R. No. 1, Norwich	Norwich.
<i>British Columbia</i> —		
Globe Fertilizer Company	Campbell Rd., South Vancouver	South Vancouver.
The Triangle Chemical Co., Ltd.	P.O. Box 1011, New Westminster, Foot 16th St.	New Westminster.

## Medicinal and Pharmaceutical Preparations

<i>Nova Scotia</i> —		
Minard's Liniment Co., Ltd.	7 Jenkins St., Yarmouth	Yarmouth.
<i>New Brunswick</i> —		
The Brantley Drug Co., Ltd.	13 Mill St., St. John	St. John.
<i>Quebec</i> —		
American Druggists Syndicate, Limited	24 Craig St. W., Montreal	Montreal.
Gustave Andrien (Franco-Belgium Patent Medicine Co.)	330 Parl Lafontaine, Montreal	Montreal.
Ernest Audet & Co.	21 rue Iberville, Montreal	Montreal.
The Centaur Company	442 St. James St., Montreal	Montreal.
Alphonse Chrétien	Ste. Eulalie	Ste. Eulalie
Cie du Produits Chimiques, Dr. Varrain, Enreg	39 Notre Dame St. E., Montreal	Montreal.
Cie Pharmaceutique Rameau, Ltée	310 St. Catherine E., Montreal	Montreal.
Davis & Lawrence Co.	Bronx Boue & 238th St. New York, N.Y., U.S.A.	356 St. Antoine St., Monreal.
The Denver Chemical Mfg. Co.	20 Grand St., New York City, N.Y., U.S.A.	107 La Gauchetiére St. W., Montreal.
R. J. Devins Ltée	2123 St. James St., Montreal	Montreal.
Wilfred Duclos	Bienville	Bienville.
Frasier, Thornton & Co., Ltd.	Cookshire	Cookshire.
Charles E. Frosst & Co.	301 La Gauchetiére St. W., Montreal	Montreal.
J. A. E. Gauvin	850 Ste. Catherine St. E., Monreal	241 Maisonneuve St., Montreal.
Frank W. Horner, Limited	48 St. Urbain St., Montreal	Montreal.
G. C. Hanford Mfg. Co., Ltd.	133 Youville Sq., Montreal	Montreal.
The Hervay Chemical Co. of Canada, Limited	St. Basile	St. Basile.
Ideal Medicine Co.	Victoriaville	Victoriaville.
Imperial Pharmaceutical Products Company	23 St. Alexander St., Montreal	Montreal.
The Kork Products Co.	90, 5ème rue, Quebec	Quebec.
La Cie Clinique Vinal Ltée	921n St. Denis St., Montreal	Montreal.
La Cie de Vins Franco-Canadiens	517 Mont Royal East, Montreal	Montreal.
La Cie Techno-Chimique Massé	238a St. Joseph St., Lachine	Lachine.
Laboratoire Nadeau Ltée	17 St. Paul St. East, Montreal	Montreal.
Dr. J. O. Lambert, Limitée	396 St. Antoine St., Montreal	Montreal.
Compagnie J. J. Mathieu	44 Albert St., Sherbrooke	Sherbrooke.
Dr. Ed. Morin & Cie Ltée	113 Côte de la Montagne, Quebec	Quebec.
Menley & James Limited of Canada	45 St. Alexander St., Montreal	Montreal.
National Licorice Company	106 John St., Brooklyn, N.Y., U.S.A.	Rouen St. & Desjardins Ave., Montreal.
Non-Such Family Medicine Co.	185 Notre Dame St., Victoriaville	Victoriaville.
N. C. Polson & Co., Limited	311 Notre Dame St. W., Montreal	Montreal.
Ant. Racicot	1814 Papineau St., Montreal	Montreal.
D. Watson and Company	11 Place Youville, Montreal	Montreal.
A. J. White & Co., Ltd.	35 St. Alexander St., Montreal	Montreal.
The Wingate Chemical Co., Ltd.	468 St. Paul St. W., Montreal	129 Youville Sq., Montreal.
John Wyeth & Bro., Inc.	Cor. Washington Ave. & Eleventh St., Philadelphia, Pa., U.S.A.	46 Prince St., Montreal.
<i>Ontario</i> —		
The Allen & Hanburys Co., Ltd.	64-66 Gerrard St. E., Toronto	65 King St. E., Lindeay.
The Arner Co., Ltd.	303 Michigan Ave., Buffalo, N.Y., U.S.A.	Fort Erie.
Bauer & Black, Limited	96 Spadina Ave., Toronto	Toronto.
The Bayer Company, Ltd.	801 Dominion Bk. Bldg., Toronto	907 Elliott St., Windsor.
The Bennett & Messcar Co., Limited	Mille Roches	Mille Roches.
G. C. Briggs & Sons	122 King St. W., Hamilton	Hamilton.
The Canada Pharmacal Co., Ltd.	447 Talbot St., London	London.
Canadian Gunagathion Ltd.	750B Yonge St., Toronto	Toronto.
J. H. Cummings (Carter Cummings and Company)	107 Duke St., Toronto	Toronto.
Carter Drug Company	1560 Dundas St. W., Toronto	Toronto.
Chamberlain Medicine Co., Ltd.	Sixth Ave., Des Moines, Iowa, U.S.A.	41 Dovercourt Road, Toronto.
Coleman & Co., Canada, Ltd.	67 Portland Street, Toronto	Toronto.
L. Crossman	430 Booth St., Ottawa	Ottawa.

## Medicinal and Pharmaceutical Preparations—Concluded.

Name	Head Office Address	Location of Plant
<i>Ontario—Continued</i>		
D. D. D. Company.....	3845 Ravenswood Ave., Chicago, Ill., U.S.A....	27 Lyall Ave., Toronto.
C. W. Diffin.....	Ashville, N.Y.....	Courtright St., Bridgeburg.
Douglas and Company.....	Napanee.....	Napanee.
The T. Eaton Drug Co., Ltd.....	100 Yonge St., Toronto.....	Toronto.
Edmanson, Bates & Co., Ltd.....	244 Adelaide St. W., Toronto.....	Toronto.
Emerson Drug Co., Ltd.....	Bromo-Seltzer Tower Bldg., Baltimore, Md.....	U.S.A.
Fleming Bros., Limited.....	424 Wellington St. W., Toronto.....	1266 Queen St. W., Toronto.
Foster Dack Co., Ltd.....	337 King St. W., Toronto.....	Toronto.
C. E. Fulford Limited.....	310 Dupont St., Toronto.....	Toronto.
Gallagher Remedy Co., Ltd.....	332 Water St., Peterborough.....	Peterborough.
D. J. C. Gamble & Son.....	63 Sheridan Ave., Toronto.....	Toronto.
H. M. Gaslin Co.....	420 Yonge St., Toronto.....	Toronto.
Howard Bros. Chemical Co.....	Courtright St., Bridgeburg.	Bridgeburg.
Hygiene Kola Limited.....	20 Dundas St. W., Toronto.....	Toronto.
International Druggists' & Chemists' Laboratories, Inc.....	280 Pearl St., New York, N.Y., U.S.A.....	Green-Swift Bldg., Carling St., London.
E. G. Jefferis.....	442 Quebec Ave., Toronto.....	Toronto.
The F. E. Karn Co., Ltd.....	415 Spadina Rd., Tp. of York.....	Toronto.
Lambert Pharmacal Co.....	2101 Locust St., St. Louis, Mo., U.S.A.....	273 Adelaide St. W., Toronto.
Lee Chemical Mfg. Co.....	17 High Park Blvd., Toronto.....	Toronto.
A. H. Lewis Medicine Co.....	319 S. Fourth St., St. Louis, Mo., U.S.A.....	67 Crawford Ave., Windsor.
Dr. Mahans' Compass Oil Co.....	18 Garfield Ave., London.....	London.
The Mentholatum Co.....	Wichita, Kansas, U.S.A.....	Lewis St., Bridgeburg.
The Merrill Co., Ltd.....	931 Church St., Toronto.....	Toronto.
The T. Milburn Co., Ltd.....	643 King St. W., Toronto.....	Toronto.
R. L. Mulvey.....	211 Ossington Ave., Toronto.....	Toronto.
Nutional Drug & Chemical Co., of Canada, Ltd.....	34 St. Gabriel Street, Montreal Que.....	1 Phoebe St., Toronto.
Geo. M. Noll.....	424 Wellington St. W., Toronto.....	Toronto.
Northrop & Lyman Co., Ltd.....	462-6 Wellington St. W., Toronto.....	Orillia.
The Orrilia Chemical Co.....	91 Newash St., Orillia.....	Walker and Sandwich Sts., Walkerville.
Parke Davis & Company.....	2951 Atwater St., Detroit, Mich., U.S.A.....	Walkerville.
The Penshur Co., Ltd.....	Walker Power Bldg., Walkerville.....	76 Stafford St., Toronto.
Pepsin Syrup Co., Ltd.....	Stafford & Defoe Sts., Toronto.....	University Ave., Cobourg.
Lydia E. Pinkham Medicine Company.....	271 Western Ave., Lynn, Mass., U.S.A.....	Toronto.
The H. Powell Chemical Co.....	260 Victoria St., Toronto.....	Windsor.
The Geo. H. Rundle & Son Co., Limited.....	Cor. Pitt and Dougal Ave., Windsor.....	Richmond Hill.
John H. Sanderson.....	Richmond Hill.....	London.
W. E. Saunders & Co., Ltd.....	188 King St., London.....	64-66 Princess St., Toronto.
Scott & Bowne, Inc.....	60 Orange St., Bloomfield, N.J., U.S.A.....	Toronto.
The E. B. Shuttleworth Chemical Co., Ltd.....	898 St. Chir Avenue West, Toronto.....	Windsor.
Frederick Stearns & Co., of Canada, Ltd.....	345 Sandwich St. W., Windsor.....	81 Peter St., Toronto.
Sutcliffe & Bingham of Canada, Ltd.....	Manchester, England.....	Toronto.
Synthetic Drug Co., Ltd.....	243 College St., Toronto.....	Walkerville.
Tanlac Co., Ltd.....	48 Kildare Rd., Walkerville.....	Toronto.
The Toronto Pharmacal Co., Limited.....	20 Brockton Avenue, Toronto.....	Windsor.
United Drug Co., Ltd.....	78 Broadway A ve., Toronto.....	Orillia.
Vanderhoof & Co., Ltd.....	Louis & Wyndotte St., Windsor.....	Perth.
Henry K. Wampole & Co., Ltd.....	Perth.....	Toronto.
Waterbury Chemical Co., of Canada, Limited.....	58 Spadina Ave., Toronto.....	Toronto.
Ernest P. West.....	41 Duchess St., Toronto.....	Toronto.
World's Dispensary Medical Association.....	665 Main St., Buffalo, N.Y., U.S.A.....	Courtwright St., Bridgeburg.
<i>Manitoba—</i>		
Canadian Sundries Ltd.....	212 Balmoral St., Winnipeg.....	Winnipeg.
J. C. Dean.....	514 Portage Ave., Winnipeg.....	Winnipeg.
Drugs Limited.....	Lydia & McDermott Aves., Winnipeg.....	Winnipeg.
The T. Eaton Co., Ltd.....	199 Yonge St., Toronto, Ont.....	Winnipeg.
Dr. Peter Fahrney & Sons Co.....	2501-17 Washington Blvd., Chicago, Ill., U.S.A.....	256 Stanley St., Winnipeg.
The W. T. Ruwleigh Co., Ltd.....	London, Ont.....	587-589 Henry Ave., Winnipeg.
The J.R. Watkins Company.....	Winona, Minnesota, U.S.A.....	E. Higgins and Anna-bella Sts., Winnipeg.
<i>British Columbia—</i>		
B.C. Pharmacal Co., Ltd.....	329 Railway St., Vancouver.....	Vancouver.

## Paints, Pigments and Varnishes

<i>Nova Scotia—</i>		
Brandram-Henderson Ltd.....	2984 St. Urbain St., Montreal, Que.....	230-240 Kempt Rd., Halifax.
<i>Quebec—</i>		
Brandram-Henderson Ltd.....	2984 St. Urbain St., Montreal.....	Montreal.
The Carter White Lead Co. of Canada, Ltd.....	91 Delorionier Avenue, Montreal.....	Montreal.
The Dougall Varnish Co., Ltd.....	305 Manufacturers St., Montreal.....	Montreal.
The Holland Co., Ltd.....	3000 Park Ave., Montreal.....	Montreal.

Paints, Pigments and Varnishes—*Concluded.*

Name	Head Office Address	Location of Plant
<i>Quebec—Continued</i>		
Jas. W. Jamieson Varnish Co., Ltd.	Charlemagne and Boyce Sts., Montreal	Montreal.
R. C. Jamieson & Co., Ltd.	264 St. Patrick St., Montreal	Montreal.
The Martin-Senour Co., Ltd.	2051 Greenshield Ave., Montreal	Montreal.
McArthur Irwin Ltd.	20 St. Paul St. W., Montreal	Montreal.
Mount Royal Color & Varnish Co., Ltd.	195 Dorchester St. E., Montreal	305 Casgrain St., Montreal.
National Varnish Co., of Canada, Ltd.	369 Crnig St. W., Montreal	Montreal.
A. Ramsay & Son Company	12 Inspector St., Montreal	Montreal.
Sherwin-Williams Co., of Canada, Ltd.	897 Centre St., Montreal	Montreal.
The Steel Co. of Canada, Ltd.	Hamilton, Ont.	None Dame St., Montreal.
<i>Ontario—</i>		
Berry Brothers, Incorporated	Walker Rd., Walkerville	Walkerville.
Brandram-Henderson Limited	2984 St. Urbain St., Montreal, Que.	377 Carlaw Ave., Toronto.
Geo. Cooke Co., Ltd.	174 King St. E., Toronto	Toronto.
Cosmos Chemical Company	Park Hope	Park Hope.
Dominion Paint Works, Ltd.	102 Ottawa St., Walkerville	Walkerville.
Flint Varnish & Color Works of Canada, Ltd.	120 St. James St., Montreal	Cor. Perth and Kingley Aves., Toronto.
The Glidden Co., Limited	370-382 Wallace Ave., Toronto	Toronto.
H. S. & T. Crystal Co., Ltd.	169 Yonge St., Toronto	South St., New Toronto
Imperial Varnish & Color Co., Limited	6 Morse St., Toronto	Toronto.
Industrial Varnish Works, Ltd.	Biggar Avenue, Hamilton	Toronto.
International Varnish Co., Ltd.	Gerrard St. and Carlaw Ave., Toronto	Toronto.
James Langmuir & Co., Ltd.	Onikville	Toronto.
Lowe Brothers Limited	263 Ave. Soranen, Toronto	Toronto.
Benjamin Moore & Co., Ltd.	6 Lloyd St., West Toronto	Toronto.
J. H. Morin	51 Colborne St., Toronto	Toronto.
A. Muirhead Co., Ltd.	217 King St. E., Toronto	Toronto.
The Northern Varnish Co., Ltd.	1st Ave. W., Owen Sound	Owen Sound.
Ottawa Paint Works, Ltd.	687 Wellington St., Ottawa	Ottawa.
Penfound Varnish Co.	Cariboo Ave., Toronto	Toronto.
Prati & Lambert Inc.	Bridgeburg	Bridgeburg.
F. A. Ramsay	Tilson Ave., Tilsonburg	Tilsonburg.
Reynolds & Co.	261 Macdonell Ave., Toronto	Toronto.
Sanderson Pearcey & Co., Ltd.	272 Van Horne St., Toronto	Toronto.
Searle & Co., Limited	35 Greenwich St., Brantford	Brantford.
Standard Paint & Varnish Co., Limited	Cor. Wyandotte St. and C.P. Railway, Windsor	Windsor.
Watts Chemical Co.	80 Don Esplanade, Toronto	Toronto.
<i>Manitoba—</i>		
International Laboratories Limited	Rue des Meurons, St. Boniface	St. Boniface.
The Sherwin-Williams Co. of Canada Limited	897 Centre St., Montreal, Que.	110 Sutherland Ave. Winnipeg.
G. F. Stephens & Co., Ltd.	172 Market St. East Winnipeg	172 Market St. E. Winnipeg.
<i>Alberta—</i>		
Rocky Mountain Paint Co., Ltd.	921-9th Ave. East, Calgary	Calgary.
<i>British Columbia—</i>		
Ayres Varnish & Paint Co., Ltd.	Raymur Ave. and Parker St.	Vancouver.
British America Paint Co., Ltd.	Laurel Pt. Victoria	Victoria.
Crown Paint Co., Ltd.	24 Cordova St. E., Vancouver	Vancouver.
Henry Darling and Son	28 Powell St., Vancouver	Vancouver.
The Impermea Products Co., Ltd.	803 Dominion Bk. Bldg., Vancouver	1445 Venables St., Vancouver.
The Martin Senour Co., Ltd.	1505 Powell St., Vancouver	Vancouver.
Pacific White Lead Co., Ltd.	Granville Island, Vancouver	Vancouver.
The Stanclund Co., Ltd.	840 Fort St., Victoria	Bay and Shakespeare Sts., Victoria.
Williams & Harte, Ltd.	1302 Wharf St., Victoria	Victoria.

## Soaps, Washing Compounds and Toilet Preparations

SOAPS		
<i>New Brunswick—</i>		
The St. Croix Soap Mfg., Co.	Water St., St. Stephen	St. Stephen.
<i>Quebec—</i>		
Albert Soaps Limited	168 McCord St., Montreal	Montreal.
J. Barsalou Cie, Ltée	172 Delormier Ave., Montreal	Montreal.
Dime V. Boileau	611 rue Bélangier, Montreal	Montreal.
Darling & Bruylé Ltd	159 Richardson St., Montreal	Montreal.
Marx & Rawolle of Canada, Ltd	510 St. Ambroise St., Montreal	Montreal.
J. T. Robertson Co. of Canada, Limited	501 Bennett Ave., Maisonneuve	Maisonneuve.
Sewards Limited	Cor. 8th Ave. and Maple St., Ville St-Pierre	Ville St-Pierre.
Snap Company Limited	91 Reading St., Montreal	Montreal.
<i>Ontario—</i>		
The Cudahy Packing Co.	64 Macaulay Ave., West Toronto	West Toronto.
Diamond Cleanser Ltd.	363 Royce Ave., Toronto	Toronto.
J. & R. Elliott	Water St., S. Galt	Galt.
Hamilton Soaps Ltd.	101 Bay St., N., Hamilton	Hamilton.
The Andrew Jergens Co., Ltd.	Herriott St., Perth	Perth.
Lever Bros. Limited	Eastern Ave., Toronto	Toronto.

## Soaps, Washing Compounds and Toilet Preparations—Concluded

Name	Head Office Address	Location of Plant
Liquid Soap & Sanitary Products, Ltd.	114 Jarvis St., Toronto.	Toronto.
The London Soap Co., Ltd.	197 South St., London.	London.
D. Morton & Sons, Ltd.	77 Emerald St., Hamilton.	Hamilton.
The Palmolive Company of Canada, Ltd.	64 Natalie St., Toronto.	Toronto.
The Proctor & Gamble Mfg. Company	6th and Main Sts., Cincinnati, Ohio, U.S.A.	Burlington St. E., Hamilton.
Pugsley-Dingman & Co., Ltd.	Cor. Eastern and Davies Aves., Toronto.	Cawthra Ave., Toronto.
Sapon Soaps of Canada Ltd.	164 Strachan St. E., Hamilton.	Hamilton.
Ontario Soap & Oil Co.	45 Dickens Ave., Toronto.	Toronto.
Vegetable Oil Soap Company	Box 103, Marmora.	Marmora.
E. J. C. Walker	Waterloo St., Guelph.	Guelph.
<i>Manitoba</i>		
Beaver Soap Co., Ltd.	1377 Winnipeg Ave., Winnipeg.	Winnipeg.
North Star Mfg. Co.	450 Notre-Dame Ave., Winnipeg.	Winnipeg.
Royal Crown Soaps Ltd.	King and Henry Sts., Winnipeg.	Winnipeg.
<i>Alberta</i>		
E. Hobley	North Edmonton.	North Edmonton.
The Royal Crown Soaps Ltd.	Winnipeg, Man.	Calgary.
<i>British Columbia</i>		
W. J. Pendray & Sons, Ltd.	Belleville & Montreal Sts., Victoria.	Victoria.
Royal Crown Soaps Ltd.	Winnipeg, Man.	308 Georgia St. E., Vancouver.
<b>WASHING COMPOUNDS</b>		
<i>Quebec</i>		
Excello Products Co.	162-164 St. Roch St., Three Rivers.	Three Rivers.
Fyon and Fyon	292 Garnier St., Montreal.	Montreal.
Jos. Paquin	915 Berri St., Montreal.	Montreal.
J. J. Robillard & Cie.	204 Fabre St., Montreal.	Montreal.
<i>Ontario</i>		
The Alpha Chemical Co., Ltd.	Kitchener.	Kitchener.
The Eze Mfg. Co., Ltd.	182 Adelaid St. W., Toronto.	Toronto.
Macke Laundry Specialty Co.	Almonte.	Almonte.
McLennan Chemical Co., Ltd.	Currie Ave. and Elliott Sts., Windsor.	Windsor.
Ponticular Products Co.	28 Niagara St., St. Catharines.	St. Catharines.
Charles N. Savage	269 King St. E., Toronto, Ont.	Toronto.
Albert W. Webb	99 Sandwich St., Walkerville.	Walkerville.
F. A. Williamson Mfg. Co., Ltd.	465-7 Wellington St., Ottawa.	Ottawa.
<i>Alberta</i>		
The Wash Out Co.	10249-95th St., Edmonton.	Edmonton.
<b>TOILET PREPARATIONS</b>		
<i>Quebec</i>		
Albert Bellefontaine	322 St. Denis St., Montreal.	Montreal.
California Perfume Co. of Canada, Ltd.	31 Park Place, New York, N.Y., U.S.A.	36 St. Alexander St., Montreal.
Chesebrough Mfg. Co., Cons'd.	17 State St., New York, N.Y., U.S.A.	1880 Chabot St., Montreal.
Colgate & Co., Ltd.	72 St. Ambroise St., Montreal.	Montreal.
Forhams Limited	200 Sixth Ave., New York, N.Y., U.S.A.	489 St. Paul St. W., Montreal.
G. A. Lewis Co., Ltd.	92 Prince St., Montreal.	Montreal.
J. A. Marceau Limitee	2 Rodney St., Montreal.	Montreal.
The Mennen Company Ltd.	325 Craig St., Montreal.	Montreal.
Palmers Limited	100 Latour St., Montreal.	Montreal.
<i>Ontario</i>		
The Calsodent Co., Limited	33 Front St. E., Toronto.	Toronto.
The Canadian Booster Co., Ltd.	515 Wyandotte St. E., Windsor.	Windsor.
The Her piedie Company	63 W. Milwaukee Ave., Detroit, Mich., U.S.A.	30 Goyea St., Windsor.
Frederick F. Ingram Co.	1565 W. Lafayette Blvd., Detroit Mich., H.S.A.	801-3 Sandwich St. W., Windsor.
R. W. McLarty, Limited	432 Wellington St. W., Toronto.	Toronto.
Misner Mfg. Company	Box 385, Goderich.	Goderich.
L. Partin, Limited	12 Mutual St., Toronto.	Toronto.
Pepsodent Company	1104 S. Wabash Ave., Chicago, Ill., U.S.A.	191 George St., Toronto.
The Pompeian Co.	2400 Payne Ave., Cleveland, Ohio, U.S.A.	15 Wyandotte E. Walkerville.
Seely Mfg. Co., Ltd.	15 Church St., Windsor.	Windsor.
Sovereign Perfumeries Ltd.	146-148 Brock Ave., Toronto.	Toronto.
E. G. West and Company	80 George St., Toronto.	Toronto.
<i>Manitoba</i>		
The Pulford Drug Co., Ltd.	52 Albert St., Winnipeg.	Winnipeg.
Charlie T. Wilson	180 Balmoral St., Winnipeg.	Winnipeg.

## Inks, Dyes and Colours

DYES AND COLOURS		
<i>Quebec</i>		
Dominion Caramel Co.	21 Walnut Ave. St. Henri, Montreal.	Montreal.
Johnson-Richardson Ltd.	74 St. Antoine St., Montreal.	Montreal.
Tellier, Bydwell & Co.	24-26 St. Dizier St., Montreal.	Montreal.
The Wells & Richardson Co., Ltd.	200 Mountain St., Montreal.	Montreal.

## Inks, Dyes and Colours—Concluded

Name	Head Office Address	Location of Plant
<i>Ontario—</i> Canadian Dyes Ltd..... North American Dye Corp., Ltd.....	Trenton 519 S. 5th Ave. Mt. Vernon, New York, N.Y. U.S.A.	Trenton, 240 Richmond St. W., Toronto.
<b>PRINTING INKS—</b> <i>New Brunswick—</i> Ensley B. Johnson.....	64 Bridge St., St. John.....	St. John.
<i>Quebec—</i> Frontenac Ink Works..... J. S. Robertson.....	243 William St., Montreal..... 119 Laguerrière St. W., Montreal.....	Montreal. Montreal.
<i>Ontario—</i> The Ault & Viborg Co..... Charles Bush Limited..... Canada Printing Ink Co., Ltd..... The Dominion Printing Ink and Color Co., Ltd. Manton Bros..... Shackell Edwards Co., Can. Ltd..... Sinclair Valentine Hoops Ltd.....	19 Charlotte St., Toronto..... 103 Davenport Rd., Toronto..... 151 Duncan St., Toronto..... 128 Pears Ave., Toronto..... 105 Elizabeth St., Toronto..... 127 Peter St., Toronto..... 233 Richmond St., W., Toronto.....	Toronto. Toronto. Toronto. Toronto. Toronto. Toronto. Toronto.
<i>Alberta—</i> W. J. Little.....	2412-1a St. S.E. Calgary.....	Calgary.
<i>British Columbia—</i> The Columbia Printing Ink & Roller Co., Ltd.....	1063 Hamilton St., Vancouver.....	Vancouver.
<b>WRITING INKS—</b> <i>Quebec—</i> The Carter's Ink Co.....	239 First St. Cambridge Mass., U.S.A.....	Drolet St. & Mont. Royal Ave. Montreal
<i>Ontario—</i> Norman Macdonald..... Cutler Ink Co..... J. E. Poole & Co..... S. S. Stafford Ltd.....	5 Macdonell Ave., Toronto..... 61 Richmond St., W., Toronto..... 21 Prescott Ave., Toronto..... 9 Davenport Rd., Toronto.....	Toronto. Toronto. Toronto. Toronto.
<i>Manitoba—</i> Reliance Ink Co., Ltd.....	520, McGee St., Winnipeg.....	Winnipeg.
<i>British Columbia—</i> Peerless Products Ltd..... Frank Walmsley.....	1642 Pandora St., Vancouver..... 2741-11th Ave., W., Vancouver.....	Vancouver. Vancouver.

## Wood Distillates and Extracts

<b>WOOD DISTILLATION—</b> <i>Quebec—</i> Standard Chemical Co., Ltd..... Standard Chemical Co., Ltd..... Standard Chemical Co., Ltd.....	906 Drummond Bldg., Montreal..... 906 Drummond Bldg., Montreal..... 906 Drummond Bldg., Montreal.....	Cookshire. Fassett. 324 St. Ambroise St., Montreal.
Standard Chemical Co., Ltd..... Standard Chemical Co., Ltd.....	906 Drummond Bldg., Montreal..... 906 Drummond Bldg., Montreal.....	Lac Mercier. Weedon.
<i>Ontario—</i> Dominion Wood & Lumber Co., Ltd..... Hodgson Bros., Chemical Co..... Standard Chemical Co., Ltd..... Standard Chemical Co., Ltd..... Standard Chemical Co., Ltd.....	Kitchener, 89 St. Paul St., Lindsay..... 906 Drummond Bldg., Montreal, Que..... 906 Drummond Bldg., Montreal, Que..... 906 Drummond Bldg., Montreal, Que..... 906 Drummond Bldg., Montreal, Que.....	Trout Creek. Lindsay. Donald. Longford mills. Parry Sound. Thornbury.
<b>WOOD EXTRACTS—</b> <i>Quebec—</i> Brown Corporation.....	71 St. Peter St., Quebec.....	La Tuque.

## Miscellaneous Chemical Industries

<b>CELLULOID PRODUCTS—</b> <i>Quebec—</i> Arlington Co. of Canada, Ltd.....	120 St. James St., Montreal.....	108 Beaubien St., Mon- treal.
The Dominion Comb & Novelty Co..... The Granby Mfg. Co..... R. B. McComiskey & Co.....	Warwick..... Court St., Granby..... 47 Alexander St., Granby.....	Warwick. Granby. Granby.
<i>Ontario—</i> Carl W. Austin.....	266 King St. W., Toronto.....	54 Kenneth Ave., West Toronto.
The Broad Novelty Co.....	38 Clifford St., Toronto.....	254 Niagara St., Tor- onto.
Canadian Fabrikoid Ltd..... French Ivory Products Ltd..... H. B. Latimer..... Henry Elias Smith.....	120 St. James St., Montreal, Que..... 1475 Queen St. W., Toronto..... 7 Widmer St., Toronto..... 19 Main St., Smith's Falls.....	New Toronto. Toronto. Toronto. Smith's Falls.

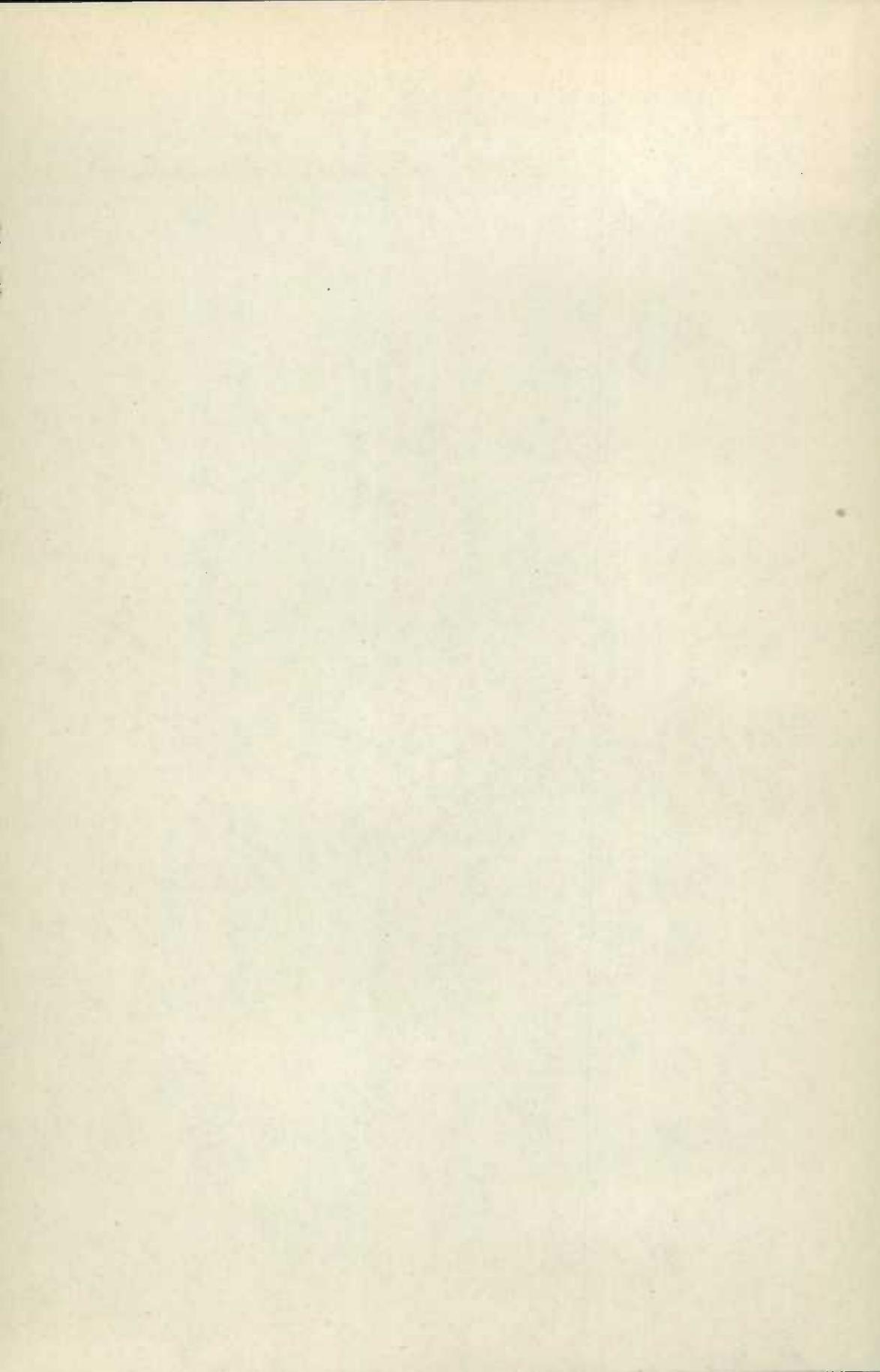
## Miscellaneous Chemical Industries—Con.

Name	Head Office Address	Location of Plant
<b>BOILER COMPOUNDS—</b>		
<i>Ontario—</i>		
The Bird-Archer Co.	33 Rector St., New York, N.Y., U.S.A.	2nd St., Cobourg.
Dearborn Chemical Co., Ltd.	2454-64 Dundas St. West, Toronto.	Toronto.
Perolin Co. of Canada, Ltd.	558 Dupont St., Toronto.	Toronto.
Shell Bar Boico Supply Ltd.	1-15 Saunders Ave., Toronto.	Toronto.
Woodward Chemical Co.	169 Main St. W., Hamilton.	Hamilton.
<b>FLAVOURING EXTRACTS—</b>		
<i>New Brunswick—</i>		
Wilson Chemical Co., Ltd.	53-57 Water St., St. John.	St. John.
<i>Quebec—</i>		
W. J. Bush & Co. (Canada), Limited.	394 St. Paul St. W., Montreal.	Montreal.
L. Chuput, Fils & Cie, Ltée.	2 rue DeBresoles, Montreal.	Montreal.
Henri Joans & Co.	173-177 St. Paul St., W. Montreal.	Montreal.
King Marceau Ltd.	183 St. Paul St. W., Montreal.	Montreal.
Rod Cap Products Ltd.	64 McGill St., Montreal.	Montreal.
Rose & Lafleurme Ltd.	500 St. Paul St., Montreal.	Montreal.
Stuart Brothers.	41-43 Youville Sq., Montreal.	Montreal.
Thomas Tremblay.	1868 Bordeaux St., Montreal.	Montreal.
<i>Ontario—</i>		
John R. Cressy Co.	523 King St. W., Toronto.	Toronto.
The Genesee Pure Food Co. of Canada, Ltd.	Le Roy, N.Y., U.S.A.	Niagara St., Bridgeburg.
The Harry Horne Co., Ltd.	1297 Queen St. W., Toronto.	Toronto.
Imperial Extract Co.	2-24 Matilda St., Toronto.	Toronto.
E. W. Jeffress Ltd.	Walker Power Bldg., Walkerville.	Walkerville.
Joe Lowe Co., Ltd.	67-34th St. Brooklyn, N.Y., U.S.A.	100 Sterling Rd., Toronto.
No-Ez Products Co., Ltd.	Welland.	Fort Erie.
Henry H. Ottens Mfg. Co.	129 S. Front St., Philadelphia, Pa., U.S.A.	3 Jarvis St., Toronto.
W. G. Patrick and Co., Limited.	51 Wellington Street West, Toronto.	Toronto.
<i>British Columbia—</i>		
F. C. Grantham, Co., Ltd.	700-16th Ave. West, Vancouver.	Vancouver.
<b>POLISHES AND DRESSINGS—</b>		
<i>Nova Scotia—</i>		
Blacking & Mercantile Co., Ltd.	Station St., Amherst.	Amherst.
<i>Quebec—</i>		
American Metal Polish Co.	89 Winslow Ave., West Somerville, Mass., U.S.A.	Second Ave., Ville St. Pierre.
Boston Blacking Co.	3rd and Potter Sts., East Cambridge, Mass., U.S.A.	152 McGill St., Montreal.
Boston Blacking Co.	3rd and Potter Sts., East Cambridge, Mass., U.S.A.	1760 St. Lawrence Blvd., Montreal.
Canadian Furniture Gloss Co.	3361 St. Hubert, Montreal.	Montreal.
La-Lo Manufacturing Co., Ltd.	365 Aqueduct St., Montreal.	Montreal.
The R-A-D-I-O Mfg. Co.	2384 Adam St., Montreal.	542 Aylwin Entrepot, Montreal.
Star Dressing Co.	Rear 2555 Hutchison St., Montreal.	Montreal.
Sultana Limited.	102 Amherst St., Montreal.	Montreal.
The Uni-Lak Co.	6 South Lyon St., Batavia, N.Y., U.S.A.	3 Hogan St., Montreal.
Vit Manufacturing Co., Ltd.	724-20 Notre Dame St. E., Montreal.	Montreal.
<i>Ontario—</i>		
E. E. Blincher.	75 Oak Ave., Hamilton.	Hamilton.
Buffalo Specialty Co.	375 Elliston St., Buffalo, N.Y., U.S.A.	Bridgewater.
Canadian Polishes Ltd.	McKay Bldg., King St. E., Hamilton.	58 Catherine St., Hamilton.
Channell Limited.	369 Sarazen Ave., Toronto.	Toronto.
The Commercial Oil Co., Ltd.	420 Jackson St. W., Hamilton.	Hamilton.
F. F. Dalley Co. of Canada, Ltd.	75 Hugheon St. N., Hamilton.	Hamilton.
Leonard Graziadei.	240 King St. E., Toronto.	Toronto.
Edward Hawes & Co., Ltd.	71 Duke St., Toronto.	Toronto.
The Hays Manufacturing Co.	35 Carlton Ave., Toronto.	Toronto.
Home Products Co.	151 Hyde Park Ave., Hamilton.	Hamilton.
S. C. Johnson & Son, Ltd.	Frank St., Brantford.	Brantford.
Lion Polish Co., Ltd.	5 Wellington St. E., Toronto.	525 King St. W., Toronto.
The Nonsuch Mfg. Co., Ltd.	74 Yonge St., Arcade, Toronto.	9 Busy St., Toronto.
The Permanent Ink Co., Ltd.	302 Cumberland Ave., Hamilton.	Hamilton.
Robt. Ralston & Co., Ltd.	33 Sanford Ave. S., Hamilton.	Hamilton.
Reflex Mfg. Co.	Box 639, Parry Sound.	Parry Sound.
Solient Mfg. Co.	160 Simcoe St. S., Oshawa.	Oshawa.
Thos. S. Wills.	184 Logan Ave., Toronto.	Toronto.
Windsor Polish Co.	73 Roseberry Place, St. Thomas.	St. Thomas.
<i>Alberta—</i>		
Rudder Manufacturing Co.	7543-112 Avenue, Edmonton.	Edmonton.
<b>SWEEPING COMPOUNDS—</b>		
<i>Quebec—</i>		
Conway Mfg. Co.	16 Jenkes Lane, Sherbrooke.	Sherbrooke.
<i>Ontario—</i>		
The Dustbane Manufacturing Co., Ltd.	Ottawa.	Ottawa.
Socean Limited.	444 King St. W., Toronto.	Toronto.
<i>Manitoba—</i>		
Dustbane Western Ltd.	80 Lombard St., Winnipeg.	325 Elgin Ave., Winnipeg.

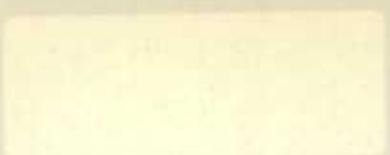
## Miscellaneous Chemical Industries—Con.

Name	Head Office Address	Location of Plant
<b>ADHESIVES—</b>		
<i>Nova Scotia—</i>		
The Robinson Glue Co., Ltd.	St. Nicholas Building, Montreal, Que.	Canso.
<i>New Brunswick—</i>		
Russia Cement Co.	Gloucester, Mass., U.S.A.	Gilberts Lane, St. John.
<i>Quebec—</i>		
Auld Mucilage Co., Reg.	48 St. Alexander St., Montreal.	Montreal.
Boston Blacking Co.	3rd and Potter Sts. East, Cambridge, Mass., U.S.A.	Cote St. Paul, Montreal.
The Dominion Flour Paste Co.	613 Maisonneuve St., Montreal.	Montreal.
T. M. Fox & Sons, Limited.	Cote St. Paul, Montreal.	Canal Bank, Montreal.
F. Canac Marquis.	Guyart St., Quebec.	Quebec.
Russia Cement Co.	Gloucester, Mass., U.S.A.	555 Rue IX Ave., Montreal.
Vol-Peek Mfg. Co.	30 St. Francois Xavier St.	866 Craig St. E., Montreal.
F. E. Woodward & Sons	17th Avenue, Lachine.	Lachine.
<i>Ontario—</i>		
Canada Glue Company, Ltd.	Brantford.	Brantford.
The Cannon Canadian Co., Ltd.	361 Sorrento Ave., Toronto.	Toronto.
Dextrine Co.	Front Street, Thorold.	Thorold.
W. Harris & Co., Ltd.	Keating St. and Don River, Toronto.	Toronto.
Estate of Albert Edward Machon.	47 St. James Ave., Toronto.	Toronto.
Vera Chemical Co. of Canada, Ltd.	Freeman.	Burlington.
A. C. Wintermeyer.	Wiltnot and Strange Sts., Kitchener.	Kitchener.
<b>BAKING POWDER—</b>		
<i>Quebec—</i>		
Cook's Friend Baking Powder Co., Ltd.	641 St. Paul St. W., Montreal.	Montreal.
Royal Baking Powder Co.	135 William St., New York, N.Y., U.S.A.	4 St. Lawrence Blvd., Montreal.
Standard Spica Mills.	43 Champflour St., Three Rivers.	Three Rivers.
<i>Ontario—</i>		
Coleman Baking Powder Co., Ltd.	131-133 Perth St., Brockville.	Brockville.
Egg-O Baking Powder Co., Ltd.	198 Gage Avenue South, Hamilton.	Hamilton.
E. W. Gillett Co., Ltd.	Fraser Ave., Toronto.	Toronto.
<b>INSECTICIDES—</b>		
<i>New Brunswick—</i>		
Empire Chemical Co., Ltd.	8 Bentley St., St. John.	St. John.
Hill N. Grinamer.	St. Stephen.	St. Stephen.
<i>Quebec—</i>		
Auto Roach Killer Co.	1359 St. Hubert St., Montreal.	Montreal.
The Kennedy Mfg. Co.	588 Henry Julien Ave., Montreal.	Montreal.
Wilfrid Parisien.	594 rue Ontario E., Montreal.	Montreal.
The Sherwin-Williams Co. of Canada, Ltd.	897 Centre St., Montreal.	19 Hunter St., Montreal.
<i>Ontario—</i>		
Canada Rex Spray Co., Ltd.	Ontario St., Brighton.	Brighton.
Common Sense Mfg. Co.	393 Queen St. W., Toronto.	Toronto.
Niagara Brand Spray Co., Ltd.	Burlington.	Burlington.
Ismene B. Dobie.	30 Victor St., London.	London.
The Williams Chemical Co., Ltd.	Russell.	Russell.
<i>Manitoba—</i>		
Charles Riess & Co.	386 Colony St., Winnipeg.	Winnipeg.
<b>MISCELLANEOUS CHEMICAL PRODUCTS—</b>		
<i>Quebec—</i>		
Montreal Water & Power Co.	11 Place D'Armes Sq., Montreal.	20 Charlevoix St., Mont'l.
<i>Ontario—</i>		
Anti-Borax Compound Co.	918 McDougall St., Windsor.	Windsor.
Cataract Refining Co., Ltd.	1 Shelburne St., Toronto.	Toronto.
Chr. Hansen's Canadian Laboratory.	Little Falls, New York, N.Y., U.S.A.	Toronto.
Quaker City Chemical Co., of Canada, Ltd.	Hamilton.	Hamilton.
<i>Manitoba—</i>		
Abraham Shapiro.	331 Austin Street, Winnipeg.	Winnipeg.









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