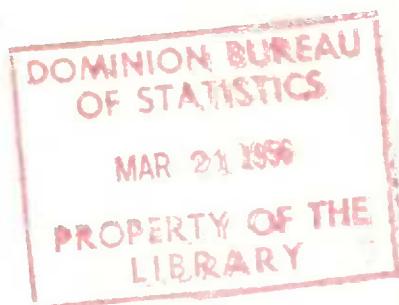


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THE ACIDS, ALKALIES AND SALTS INDUSTRY

1954



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NOTICE

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

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

- I — General Review of the Manufacturing Industries, \$1.50
- II — The Manufacturing Industries of Canada, (7 sections, as follows:)
 - Section A. Summary for Canada, 25¢
 - Section B. Atlantic Provinces, 25¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 25¢
 - Section F. British Columbia, 25¢
 - Section G. The Manufacturing Industries of Canada,
Regional Distribution, 75¢
- III — Foods and Beverages
- IV — Tobacco and Tobacco Products
- V — Rubber Products
- VI — Leather Products
- VII — Textile Mills
- VIII — Knitting Mills
- IX — Clothing
 - X — Wood and Paper Products
 - XI — Printing Trades
 - XII — Iron and Steel Products
 - XIII — Transportation Equipment
 - XIV — Non-ferrous Metal Products
 - XV — Electrical Apparatus and Supplies
 - XVI — Non-metallic Mineral Products
 - XVII — Products of Petroleum and Coal
 - XVIII — Chemicals and Allied Products
 - XIX — Miscellaneous Manufactures

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

- A — General Review, 25¢
- B — The Acids, Alkalies and Salts Industry, 25¢
- C — The Fertilizers Industry, 25¢
- D — The Fertilizer Trade in Canada, 25¢
- E — The Medicinal and Pharmaceutical Preparations Industry, 25¢
- F — The Paints, Varnishes and Lacquers Industry, 25¢
- G — The Primary Plastics Industry, 25¢
- H — The Soaps, Washing Compounds and Cleaning Preparations Industry, 25¢
- I — The Toilet Preparations Industry, 25¢
- J — The Vegetable Oils Industry, 25¢
- K — The Inks Industry, 25¢
- L — The Adhesives Industry, 25¢
- M — The Polishes and Dressings Industry, 25¢
- N — The Compressed Gases Industry, 25¢
- O — The Coal Tar Distillation Industry, 25¢
- P — The Miscellaneous Chemical Products Industry, 25¢

THE ACIDS, ALKALIES AND SALTS INDUSTRY

1954

Forty-three plants in Canada, classified under the Acids, Alkalies and Salts Industry, were engaged chiefly in the production of chemicals in 1954. Factory shipments reported by this group were valued at \$142,001,601, an increase of 11.6 per cent over the total for the previous year. Twenty-two of these plants were located in Ontario, 15 in Quebec, 2 in British Columbia, 2 in Alberta, 1 in Nova Scotia and 1 in the Northwest Territories. These concerns gave employment to 8,408 people who were paid \$33,425,864 in salaries and wages. Materials used in manufacturing processes cost \$49,400,551 and expenditures for fuel and electricity amounted to \$13,358,379.

Except for sulphuric acid, caustic soda and chlorine, separate figures for the production of chemicals in this group are not published as many of the individual items were made by only one or two concerns. However, a special compilation, which gives a fairly good summary of the total output of chemicals as gathered up from all industries, is shown in Table 4. A list of the more important chemicals made by the factories in this group is shown in the directory which appears at the back of this bulletin.

The output of sulphuric acid increased to 923,800 tons (100% acid) in 1954 from the 822,608 tons in 1953. Ten plants were operated by seven companies, as follows: The Consolidated Mining and Smelting Company of Canada, Limited, at Trail, British Columbia; Canadian Industries Limited, at Copper Cliff and Hamilton in Ontario; Nichols Chemical Company Limited, at Sulphide, Ontario, Valleyfield, Quebec, and Barnet, British Columbia; Dominion Steel and Coal Corporation Limited, at Sydney, Nova Scotia; Aluminum Company of Canada Ltd., at Arvida, Quebec; the North American Cyanamid, Limited (Welland Works), at Niagara Falls, Ontario, and Eldorada Mining and Refining Ltd., at Port Radium, Northwest Territories. The first two of these works, at Trail and Copper Cliff, operated entirely on sulphur-bearing smelter gases.

Production of chlorine, either as a gas or liquid, totalled 167,000 tons in 1954, while the output of caustic soda amounted to 199,000 tons. In 1954 there were 11 caustic soda-chlorine plants in Canada. The Canadian Industries (1954) Limited, had works at Windsor and Cornwall in Ontario, and at Shawinigan Falls, Quebec. Other producers included the Dow Chemical of Canada Limited, Sarnia, Ontario; the Standard Chemical Company Limited, Beauharnois, Quebec; the Aluminum Company of Canada Limited, Arvida, Quebec; Western Chemical Limited, Duvernay, Alberta; the Canadian International Paper Company, Temiskaming, Ontario; the Howard Smith Paper Mills Limited, Cornwall, Ontario; the KVP Company Limited, Espanola, Ontario; and the Marathon Paper Mills of Canada Limited, Marathon, Ontario. The last four concerns are paper mills which make these chemicals for their own use.

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

List of Firms in the Acids, Alkalies and Salts Industry, 1954 - Concluded

Name and location of plant	Principal chemicals made
Ontario - concluded:	
S. Nord Chemical Company Limited Petrolia	Benzene; toluene; xylene; aromatic naphthas.
North American Cyanamid Ltd. Niagara Falls	Calcium cyanamide; sodium cyanide; lime, unhydrated.
Nuodex Products of Canada, Ltd. Leaside	Lead naphthenate; cobalt naphthenate; manganese naphthenate; zinc naphthenate; copper naphthenate; calcium naphthenate; iron naphthenate; lead octoate; cobalt octoate; calcium octoate; cobalt tallate.
North American Cyanamid Ltd., (Welland works) Niagara Falls	Ammonia (anhydrous); dicyandiamide; guanidine nitrate; sulphuric acid; urea-formaldehyde adhesives; nitric acid; picrite; thiourea.
Watford Chemical Co. (Canada) Ltd. Toronto	Glyceryl monostearate.
Alberta:	
Canadian Chemical Company Limited Edmonton	Acetone; acetic acid; iso-butyl alcohol; propylene glycol; formaldehyde; methyl alcohol; pentaerythritol; n-propyl acetate; n-propyl alcohol.
Western Chemicals Limited Duvernay	Chlorine (liquid); sodium hydroxide (caustic soda).
British Columbia:	
Consolidated Mining and Smelting Co. of Canada, Ltd. Tadanac	Hydrofluosilicic acid; sulphuric acid.
The Nichols Chemical Co. Ltd. Burnet	Sulphuric acid; pyrites cinder.
Northwest Territories:	
Eldorado Mining & Refining Ltd. Port Radium	Sulphuric acid.

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