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Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.)  
Chief - Mining, Metallurgical and Chemical Branch: W. H. Losee, B.Sc.  
Statistician - Metal and Chemical Products: H. McLeod, B.Sc.

ANNUAL INDUSTRY REPORT

CHEMICALS AND ALLIED PRODUCTS GROUP

THE FERTILIZER MANUFACTURING INDUSTRY, 1937.

Production by plants in Canada engaged principally in the manufacture of fertilizers was valued at \$10,266,953 in 1937, an improvement of 45 per cent over the total of \$7,075,831 reported for 1936. In addition, there was a production of 255,549 tons of fertilizer materials valued at \$5,745,806 in 1937 and 198,848 tons at \$4,299,732 in 1936, by establishments which were classified to other industrial groups.

During 1937 only 20 plants in Canada produced fertilizers as their major products and of these 7 were in Ontario, 4 in British Columbia, 3 in Quebec, 3 in New Brunswick, 2 in Nova Scotia and 1 in Prince Edward Island. Capital employed increased to \$16,689,720 from \$14,800,141 in 1936; the number of workers rose to 1,023 from 930, and salaries and wages advanced to \$1,447,625 from \$1,196,286.

The total production of mixed fertilizers from all industries amounted to 243,802 tons worth \$6,130,523 at the factories in 1937, this total including 223,715 tons at \$5,593,964 made by plants in the fertilizer manufacturing industry and 20,086 tons at \$536,559 made in the meat-packing plants and glue factories. In 1936 the corresponding total was 175,703 tons at \$4,222,587 and in 1935 the output amounted to 145,844 tons at \$3,442,017.

Superphosphate was manufactured in 1937 by Canadian Industries Limited at Beloeil, P.Q., Hamilton, Ont., and New Westminster, B.C., and by the Consolidated Mining and Smelting Company of Canada, Limited, at Trail, B.C.; the output figures are not published separately since there were only two producers.

Ammonium sulphate was made by the Consolidated Mining and Smelting Company of Canada, Limited, at Trail, B.C., and also by the following coke manufacturers - Algoma Steel Corporation Limited at Sault Ste. Marie, Ont.; Dominion Steel and Coal Corporation, Ltd., at Sydney, N.S.; Hamilton By-Product Coke Ovens, Limited, at Hamilton, Ont.; Montreal Coke & Manufacturing Company at Montreal, P.Q., and The Steel Company of Canada, Limited, at Hamilton, Ont.. Production during the calendar year 1937 amounted to 87,621 tons; imports totalled 3,230 tons, and exports amounted to 56,486 tons. Ammonium phosphate was made only by the Consolidated Mining and Smelting Company of Canada, Limited, at Trail, B.C..

205-24

A special survey of the fertilizer trade in Canada during the fertilizer year ended June 30, 1938, has been completed by the Dominion Bureau of Statistics and the results have been published in a special report. Summary figures on the sales of fertilizers have been reprinted in Tables 14 and 15 of this bulletin. A total of 330,730 tons of mixtures and materials was sold in Canada during the year ended June 30, 1938, compared with 298,276 tons during the preceding twelve-month period.

Table 1 - PRINCIPAL STATISTICS OF THE FERTILIZER MANUFACTURING INDUSTRY, 1929-1937.

| Year                          | No. of plants | Capital employed | Average number of employees | Salaries and wages | Cost of fuel and electricity at works | Cost of materials at works | Gross selling value of products at works |
|-------------------------------|---------------|------------------|-----------------------------|--------------------|---------------------------------------|----------------------------|--|
|                               |               | \$               |                             | \$                 | \$                                    | \$                         | \$                                       |
| 1929 .....                    | 12            | 2,991,783        | 251                         | 265,650            | 17,386                                | 1,450,253                  | 2,258,780                                |
| 1930 .....                    | 14            | 4,139,498        | 261                         | 262,928            | 18,889                                | 1,647,478                  | 2,504,573                                |
| 1931 .....                    | 18            | 15,615,119       | 636                         | 848,256            | 44,972                                | 3,053,016                  | 4,251,840                                |
| 1932 .....                    | 19            | 17,083,478       | 748                         | 1,097,812          | 49,010                                | 2,616,333                  | 4,006,187                                |
| 1933 .....                    | 20            | 15,918,787       | 667                         | 776,647            | 322,849                               | 2,796,726                  | 4,286,051                                |
| 1934 .....                    | 20            | 15,452,733       | 776                         | 946,178            | 348,716                               | 3,647,660                  | 5,467,154                                |
| 1935 .....                    | 19            | 15,646,828       | 996                         | 1,239,337          | 344,131                               | 4,362,594                  | 6,075,616                                |
| 1936 .....                    | 20            | 14,800,141       | 930                         | 1,196,286          | 443,627                               | 4,996,084                  | 7,075,831                                |
| 1937 .....                    | 20            | 16,689,720       | 1,023                       | 1,447,625          | 506,965                               | 6,693,841                  | 10,266,953                               |
| % change 1937 from 1936 ..... | ..            | / 12.8           | / 10.0                      | / 21.0             | / 14.3                                | / 34.0                     | / 45.1                                   |

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1936 and 1937.

| Province                   | No. of plants | Capital employed | Average number of employees | Salaries and wages | Cost of fuel and electricity at works | Cost of materials at works | Gross selling value of products at works |
|----------------------------|---------------|------------------|-----------------------------|--------------------|---------------------------------------|----------------------------|--|
|                            |               | \$               |                             | \$                 | \$                                    | \$                         | \$                                       |
| <u>1936</u>                |               |                  |                             |                    |                                       |                            |  |
| New Brunswick...           | 3             | 608,630          | 66                          | 70,779             | 1,711                                 | 616,163                    | 828,608                                  |
| Quebec .....               | 4             | 868,246          | 99                          | 132,413            | 669                                   | 840,530                    | 1,152,148                                |
| Ontario .....              | 7             | 2,231,013        | 277                         | 267,251            | 5,129                                 | 1,396,538                  | 2,102,645                                |
| British Columbia           | 3             | 10,416,468       | 391                         | 630,028            | 431,241                               | 1,652,667                  | 2,329,795                                |
| Prince Edward Island ..... | 1)            | 675,784          | 97                          | 95,815             | 4,877                                 | 490,186                    | 662,635                                  |
| Nova Scotia .....          | 2)            |                  |                             |                    |                                       |                            |  |
| CANADA .....               | 20            | 14,800,141       | 930                         | 1,196,286          | 443,627                               | 4,996,084                  | 7,075,831                                |
| <u>1937</u>                |               |                  |                             |                    |                                       |                            |  |
| New Brunswick ..           | 3             | 890,240          | 90                          | 102,945            | 2,180                                 | 985,207                    | 1,239,424                                |
| Quebec .....               | 3             | 1,274,856        | 105                         | 157,545            | 685                                   | 925,043                    | 1,495,089                                |
| Ontario .....              | 7             | 3,183,745        | 326                         | 337,714            | 13,657                                | 2,241,446                  | 3,788,623                                |
| British Columbia           | 4             | 10,556,992       | 392                         | 728,651            | 485,156                               | 1,872,040                  | 2,816,451                                |
| Prince Edward Island ..... | 1)            | 783,887          | 110                         | 120,770            | 5,287                                 | 670,105                    | 927,386                                  |
| Nova Scotia .....          | 2)            |                  |                             |                    |                                       |                            |  |
| CANADA .....               | 20            | 16,689,720       | 1,023                       | 1,447,625          | 506,965                               | 6,693,841                  | 10,266,953                               |

Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1936 and 1937.

| Province            | Present value<br>of land, build-<br>ings, machinery<br>and equipment | Inventory value of<br>materials, supplies<br>and finished products<br>on hand, and stocks<br>in process | Operating capi-<br>tal (cash,<br>bills and<br>accounts re-<br>ceivable, etc.) | TOTAL               |
|---------------------|--|---|---|---------------------|
|                     |  |   |   | CAPITAL<br>EMPLOYED |
|                     | \$   | \$  | \$  | \$                  |
| <u>1936</u>         |  |   |   |                     |
| New Brunswick ..... | 233,312  | 135,267   | 240,051   | 608,630             |
| Quebec .....        | 377,867  | 310,587   | 179,792   | 868,246             |
| Ontario .....       | 895,587  | 731,917   | 603,509   | 2,231,013           |
| British Columbia .. | 9,622,918  | 677,278   | 116,272   | 10,416,468          |
| Other provinces ... | 138,501  | 125,772   | 411,511   | 675,784             |
| CANADA .....        | 11,268,185   | 1,980,821   | 1,551,135   | 14,800,141          |
| <u>1937</u>         |  |   |   |                     |
| New Brunswick ..... | 266,140  | 384,113   | 239,987   | 890,240             |
| Quebec .....        | 518,769  | 439,008   | 317,079   | 1,274,856           |
| Ontario .....       | 1,146,492  | 1,300,523   | 736,730   | 3,183,745           |
| British Columbia .. | 9,674,465  | 747,351   | 135,176   | 10,556,992          |
| Other provinces ... | 133,734  | 212,185   | 437,968   | 783,887             |
| CANADA .....        | 11,739,600   | 3,083,180   | 1,866,940   | 16,689,720          |

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1936 and 1937.

| Province            | Average number of employees |        |          |        |       | Salaries | Wages   | TOTAL                 |
|---------------------|-----------------------------|--------|----------|--------|-------|----------|---------|-----------------------|
|                     | On salaries                 |        | On wages |        | TOTAL |          |         | SALARIES<br>and WAGES |
|                     | Male                        | Female | Male     | Female |       |          |         |                       |
|                     |                             |        |          |        | \$    | \$       | \$      |                       |
| <u>1936</u>         |                             |        |          |        |       |          |         |                       |
| New Brunswick ..... | 11                          | 1      | 53       | 1      | 66    | 27,662   | 43,117  | 70,779                |
| Quebec .....        | 35                          | 14     | 50       | ...    | 99    | 81,909   | 50,504  | 132,413               |
| Ontario .....       | 80                          | 31     | 166      | ...    | 277   | 145,897  | 121,354 | 267,251               |
| British Columbia .. | 57                          | 7      | 327      | ...    | 391   | 128,935  | 501,093 | 630,028               |
| Other provinces ... | 22                          | 5      | 70       | ...    | 97    | 48,084   | 47,731  | 95,815                |
| CANADA .....        | 205                         | 58     | 666      | 1      | 930   | 432,487  | 763,799 | 1,196,286             |
| <u>1937</u>         |                             |        |          |        |       |          |         |                       |
| New Brunswick ..... | 15                          | 2      | 73       | ...    | 90    | 37,611   | 65,334  | 102,945               |
| Quebec .....        | 29                          | 14     | 62       | ...    | 105   | 92,326   | 65,219  | 157,545               |
| Ontario .....       | 81                          | 34     | 211      | ...    | 326   | 144,943  | 192,771 | 337,714               |
| British Columbia .. | 64                          | 10     | 317      | 1      | 392   | 160,206  | 568,445 | 728,651               |
| Other provinces ... | 24                          | 4      | 82       | ...    | 110   | 57,788   | 62,982  | 120,770               |
| CANADA .....        | 213                         | 64     | 745      | 1      | 1,023 | 492,874  | 954,751 | 1,447,625             |

Table 5 - WAGE-EARNERS, BY MONTHS, 1936 and 1937. (On the 15th of each month or nearest working day)

| Month           | 1936  |        |       | 1937  |        |       |
|-----------------|-------|--------|-------|-------|--------|-------|
|                 | Male  | Female | TOTAL | Male  | Female | TOTAL |
| January .....   | 525   | 1      | 526   | 535   | ...    | 535   |
| February .....  | 534   | 1      | 535   | 520   | 1      | 521   |
| March .....     | 601   | 1      | 602   | 666   | 1      | 667   |
| April .....     | 873   | 1      | 874   | 968   | 1      | 969   |
| May .....       | 1,076 | 1      | 1,077 | 1,329 | 1      | 1,330 |
| June .....      | 573   | 1      | 574   | 680   | 1      | 681   |
| July .....      | 566   | 1      | 567   | 618   | ...    | 618   |
| August .....    | 556   | 1      | 557   | 653   | ...    | 653   |
| September ..... | 752   | 1      | 753   | 726   | ...    | 726   |
| October .....   | 589   | 1      | 590   | 667   | ...    | 667   |
| November .....  | 702   | 1      | 703   | 706   | ...    | 706   |
| December .....  | 648   | 1      | 649   | 828   | 1      | 829   |
| AVERAGE .....   | 666   | 1      | 667   | 745   | 1      | 746   |

Table 6 - REGULAR HOURS WORKED PER WEEK BY WAGE-EARNERS, 1936 and 1937. (Overtime not included)

| Regular hours worked per week | Per cent of wage-earners |      | Regular hours worked per week | Per cent of wage-earners |      |
|-------------------------------|--------------------------|------|-------------------------------|--------------------------|------|
|                               | 1936                     | 1937 |                               | 1936                     | 1937 |
| 40 hours or less .....        | 33.9                     | 28.1 | 51 - 53 hours .....           | 2.6                      | 0.2  |
| 41 - 43 hours .....           | 0.1                      | ...  | 54 hours .....                | 14.9                     | 12.2 |
| 44 hours .....                | 0.6                      | 4.7  | 55 hours .....                | 7.0                      | 6.3  |
| 45 - 47 hours .....           | 5.0                      | ...  | 56 - 59 hours .....           | 6.8                      | ...  |
| 48 hours .....                | 8.5                      | 22.2 | 60 hours and over ....        | 15.7                     | 12.6 |
| 49 - 50 hours .....           | 4.9                      | 13.7 |                               |                          |      |

Table 7 - FUEL AND ELECTRICITY USED, 1936 and 1937.

| Kind                           | Unit of measure | 1936        |               | 1937        |               |
|--------------------------------|-----------------|-------------|---------------|-------------|---------------|
|                                |                 | Quantity    | Cost at works | Quantity    | Cost at works |
| Anthracite coal .....          | short ton       | 28          | \$ 395        | 28          | \$ 400        |
| Bituminous coal - Canadian ... | short ton       | 2,529       | 11,757        | 3,852       | 18,504        |
| Imported ...                   | short ton       | 139         | 434           | 1,062       | 6,885         |
| Coke .....                     | short ton       | 11          | 146           | 7           | 83            |
| Gasoline .....                 | Imp. gal.       | 4,514       | 1,064         | 3,063       | 704           |
| Kerosene or coal oil .....     | Imp. gal.       | 461         | 150           | 356         | 116           |
| Wood .....                     | cord            | 6           | 28            | ...         | ...           |
| Electricity purchased .....    | K. W. H.        | 272,228,818 | 429,653       | 300,646,986 | 480,273       |
| TOTAL .....                    | \$              | ...         | 443,627       | ...         | 506,965       |

Table 8 - POWER EQUIPMENT, 1936 and 1937.

| Kind  | 1 9 3 6         |                         | 1 9 3 7         |                         |
|---|-----------------|-------------------------|-----------------|-------------------------|
|   | Number of units | Total rated horse power | Number of units | Total rated horse power |
| Steam engines and steam turbines .....            | 2               | 40                      | 1               | 10                      |
| Gasoline, gas and oil engines .....               | 4               | 75                      | ...             | ...                     |
| Total Primary Equipment .....                     | 6               | 115                     | 1               | 10                      |
| Electric motors operated by purchased power ..... | 737             | 21,734                  | 836             | 23,273                  |
| TOTAL .....                                       | 743             | 21,849                  | 837             | 23,283                  |
| Stationary boilers .....                          | ...             | ...                     | 1               | 1                       |

Table 9 - MATERIALS USED IN THE FERTILIZER MANUFACTURING INDUSTRY, 1936 and 1937.

| Material                                    | 1 9 3 6    |             | 1 9 3 7    |             |
|---|------------|-------------|------------|-------------|
|   | Quantity   | Cost at     | Quantity   | Cost at     |
|   | Short tons | works<br>\$ | Short tons | works<br>\$ |
| Ammonium phosphate .....                    | 1,582      | 84,936      | 2,674      | 135,834     |
| Ammonium sulphate (sulphate of ammonia) ... | 14,931     | 369,946     | 22,284     | 578,436     |
| Basic slag .....                            | 2,075      | 3,762       | ...        | ...         |
| Bone char .....                             | 454        | 8,680       | 849        | 16,833      |
| Bone meal and bone flour .....              | 479        | 8,521       | 157        | 4,573       |
| Calcium cyanamide (cyanamid) .....          | 2,437      | 69,570      | 4,145      | 117,889     |
| Calcium nitrate and nitrochalk .....        | 173        | 4,952       | 733        | 20,588      |
| Dried blood .....                           | 176        | 7,704       | 408        | 20,790      |
| Fish meal or scrap .....                    | 515        | 16,749      | 419        | 14,523      |
| Lime or land plaster .....                  | 2,721      | 9,404       | 3,995      | 13,855      |
| Kainite and potash manure salts .....       | 833        | 9,569       | 75         | 2,500       |
| Phosphate rock .....                        | 60,924     | 438,948     | 101,704    | 726,572     |
| Potassium chloride (muriate of potash) .... | 17,251     | 442,249     | 28,899     | 795,733     |
| Potassium nitrate (nitrate of potash) ..... | 25         | 1,299       | 624        | 32,421      |
| Potassium sulphate (sulphate of potash) ... | 2,551      | 88,854      | 3,925      | 142,312     |
| Sodium nitrate (nitrate of soda) .....      | 3,896      | 91,609      | 8,314      | 221,648     |
| Sulphuric acid, 66° Be' .....               | 142,646    | 1,399,320   | 172,570    | 1,601,144   |
| Superphosphate, 16% .....                   | 96,676     | 1,079,304   | 22,190     | 209,511     |
| Superphosphate, 20% .....                   | 839        | 23,918      | 1,430      | 48,156      |
| Superphosphate, 45% .....                   | 1,660      | 36,907      | 1,374      | 36,517      |
| Tankage .....                               | ...        | ...         | 139        | 5,003       |
| Whale meat, bone and blood .....            | ...        | 408,603     | ...        | 116,065     |
| All other materials .....                   | ...        | 391,280     | ...        | 429,362     |
| Containers and shipping materials .....     | ...        | ...         | ...        | ...         |
| TOTAL .....                                 | ...        | 4,996,084   | ...        | 6,693,841   |

Table 10 - PRODUCTS OF THE FERTILIZER MANUFACTURING INDUSTRY, CALENDAR YEARS 1936 and 1937.

NOTE - Figures in this table are for the Fertilizer Manufacturing Industry, which includes only the concerns which were engaged chiefly in the manufacture of fertilizers (see Directory). Some fertilizers were made also in other industries (Table 11). For the total output of mixed fertilizers in Canada, see Table 12.

| Product  | 1 9 3 6       |           | 1 9 3 7       |            |
|--|---------------|-----------|---------------|------------|
|  | Selling value |           | Selling value |            |
|  | Quantity      | at works  | Quantity      | at works   |
|  | Short tons    | \$        | Short tons    | \$         |
| Mixed fertilizers .....  | 158,111       | 3,754,139 | 223,716       | 5,593,964  |
| Superphosphate, ammonium phosphate and ammonium sulphate (completely manufactured) ..... | 149,775       | 2,646,398 | 192,800       | 3,489,765  |
| Superphosphate, milled and screened only .....   | 33,922        | 486,649   | 45,550        | 861,509    |
| Ammonium sulphate, milled and screened only .....  |               |           | 1,925         | 65,243     |
| Muriate of potash, milled and screened only .....  | ...           | 188,645   | 3,372         | 120,730    |
| Nitrate of soda, milled and screened only .....  |               |           | 1,915         | 66,067     |
| All other products .....   | ...           | ...       | ...           | 69,675     |
| TOTAL .....  | ...           | 7,075,831 | ...           | 10,266,953 |

NOTE - Superphosphate is manufactured in Canada by two companies only, and ammonium phosphate and ammonium sulphate are manufactured by only one company in this industry, hence the production figures are not shown separately.

Table 11 - PRODUCTION OF FERTILIZERS AND FERTILIZER MATERIALS IN OTHER MANUFACTURING INDUSTRIES, CALENDAR YEARS 1936 and 1937.

| Industry                            | Product                     | 1 9 3 6       |           | 1 9 3 7       |           |
|-------------------------------------|-----------------------------|---------------|-----------|---------------|-----------|
|                                     |                             | Selling value |           | Selling value |           |
|                                     |                             | Quantity      | at works  | Quantity      | at works  |
|                                     |                             | Short tons    | \$        | Short tons    | \$        |
| Acids, alkalies and salts .....     | Calcium cyanamide           | 120,635       | 2,505,589 | 169,217       | 3,738,004 |
| Slaughtering and meat-packing ..... | Mixed fertilizers           | 16,253        | 451,678   | 19,666        | 523,359   |
|                                     | Animal tankage ..           | 17,375        | 641,222   | 17,201        | 665,624   |
| Coke and gas .....                  | Ammonium sulphate           | 26,828        | 582,816   | 29,788        | 683,556   |
| Adhesives .....                     | Mixed fertilizers           | 1,339         | 16,770    | 420           | 13,200    |
|                                     | Animal tankage ..           | 400           | 5,263     | 825           | 10,350    |
| Fisheries .....                     | Herring fertilizer          | 15,251        | 75,704    | 17,746        | 93,313    |
|                                     | Other fish fertilizer ..... | 767           | 20,690    | 686           | 18,400    |
| TOTAL .....                         |                             | 198,848       | 4,299,732 | 255,549       | 5,745,806 |

Table 12 - TOTAL PRODUCTION OF MIXED FERTILIZERS IN CANADA, FROM ALL INDUSTRIAL GROUPS, CALENDAR YEARS 1921 - 1937.

NOTE - Figures in this table represent the total Canadian production of mixed fertilizers, regardless of the industries in which produced.

| Calendar Year | Quantity<br>Tons | Selling value<br>at works<br>\$ | Calendar Year | Quantity<br>Tons | Selling value<br>at works<br>\$ |
|---------------|------------------|---------------------------------|---------------|------------------|---------------------------------|
| 1921 .....    | 46,900           | 2,399,855                       | 1930 .....    | 78,158           | 2,548,226                       |
| 1922 .....    | 40,843           | 1,818,136                       | 1931 .....    | 113,632          | 3,247,694                       |
| 1923 .....    | 37,587           | 1,366,343                       | 1932 .....    | 95,857           | 2,447,407                       |
| 1924 .....    | 38,126           | 1,539,003                       | 1933 .....    | 106,421          | 2,777,702                       |
| 1925 .....    | 47,076           | 1,663,129                       | 1934 .....    | 138,750          | 3,517,193                       |
| 1926 .....    | 56,888           | 2,043,093                       | 1935 .....    | 145,844          | 3,442,017                       |
| 1927 .....    | 72,112           | 2,552,421                       | 1936 .....    | 175,703          | 4,222,587                       |
| 1928 .....    | 76,180           | 3,017,648                       | 1937 .....    | 243,802          | 6,130,523                       |
| 1929 .....    | 75,164           | 3,098,567                       |               |                  |                                 |

Table 13 - IMPORTS INTO CANADA and EXPORTS OF FERTILIZERS AND FERTILIZER MATERIALS, Calendar Years 1936 and 1937.

|   | Unit of<br>measure | 1 9 3 6  |             | 1 9 3 7  |             |
|---|--------------------|----------|-------------|----------|-------------|
|   |                    | Quantity | Value<br>\$ | Quantity | Value<br>\$ |
| <u>IMPORTS -</u>  |                    |          |             |          |             |
| Tankage .....   | Ton                | 1,188    | 26,358      | 1,342    | 37,058      |
| Bone dust, charred bone, bone ash,<br>bone meal, and bone flour .....   | Ton                | 2,422    | 71,978      | 2,102    | 74,195      |
| Fish offal or refuse .....  | Ton                | 512      | 15,477      | 609      | 23,278      |
| Ammonium sulphate .....   | Ton                | 5,729    | 148,956     | 3,230    | 82,440      |
| Basic slag, crushed or ground .....                                     | Ton                | 12,743   | 96,975      | 11,962   | 84,683      |
| Kainite, and other German potash<br>salts .....                         | Ton                | 47       | 1,048       | 627      | 12,468      |
| Potash, muriate of, crude .....   | Ton                | 29,713   | 583,155     | 41,245   | 1,006,842   |
| Potash, sulphate of, crude .....  | Ton                | 3,636    | 104,238     | 5,501    | 155,390     |
| Soda, nitrate of .....  | Ton                | 30,604   | 749,714     | 28,132   | 728,365     |
| Superphosphate .....  | Ton                | 96,067   | 867,666     | 100,726  | 952,775     |
| Fertilizers, compounded or manu-<br>factured, not elsewhere specified . | Ton                | 6,529    | 163,128     | 12,002   | 342,398     |
| <u>EXPORTS -</u>  |                    |          |             |          |             |
| Tankage .....   | Ton                | 14,442   | 471,008     | 15,568   | 508,948     |
| Bone dust and meal .....  | Ton                | 30       | 1,249       | 1,336    | 31,040      |
| Fish offal or refuse .....  | Ton                | 684      | 17,889      | 662      | 17,870      |
| Ammonium sulphate .....   | Ton                | 85,835   | 1,805,818   | 56,486   | 1,212,258   |
| Cyanamide .....   | Ton                | 127,809  | 2,697,897   | 146,221  | 3,264,043   |
| Fertilizers, manufactured .....   | Ton                | 39,945   | 1,140,290   | 70,056   | 2,123,863   |

Table 14 - SALES(x) OF FERTILIZERS IN CANADA, EXCEPT FOR MANUFACTURING PURPOSES, DURING THE YEAR ENDED JUNE 30, 1938.

(Short tons)

| Fertilizers                        | P.E.I.        | N.S.          | N.B.          | Quebec        | On-<br>tario   | Man.,<br>Sask.,<br>and<br>Alberta | B.C.          | TOTAL<br>SOLD<br>IN<br>CANADA | EXPORTED<br>FROM<br>CANADA | GRAND<br>TOTAL |
|------------------------------------|---------------|---------------|---------------|---------------|----------------|-----------------------------------|---------------|-------------------------------|----------------------------|----------------|
| Nitrate of soda .....              | 341           | 2,381         | 1,823         | 387           | 567            | 27                                | 196           | 5,722                         | 284                        | 6,006          |
| Sulphate of ammonia .....          | 2,286         | 1,358         | 1,955         | 2,331         | 749            | 85                                | 661           | 9,425                         | 71,863                     | 81,288         |
| Cyanamide .....                    | 1             | 385           | 7             | 101           | 834            | ...                               | 73            | 1,401                         | 139,783                    | 141,184        |
| Nitrochalk .....                   | 9             | 3             | ...           | 2             | ...            | ...                               | ...           | 14                            | ...                        | 14             |
| Calcium nitrate .....              | ...           | ...           | ...           | ...           | ...            | ...                               | 13            | 13                            | 56                         | 69             |
| Superphosphate .....               | 7,941         | 1,823         | 8,669         | 15,992        | 21,583         | 293                               | 3,182         | 59,483                        | 8,804                      | 68,287         |
| Natural phosphate rock .....       | 20            | ...           | ...           | 67            | 102            | ...                               | 1             | 190                           | ...                        | 190            |
| Basic slag .....                   | 24            | 2,964         | 475           | 3,301         | 3              | ...                               | 65            | 6,832                         | 5                          | 6,837          |
| Bone meal or bone flour .....      | ...           | 108           | 39            | 54            | 279            | 37                                | 537           | 1,054                         | 6                          | 1,060          |
| Muriate of potash .....            | 2,301         | 362           | 2,882         | 1,610         | 1,193          | 1                                 | 382           | 8,731                         | 718                        | 9,449          |
| Sulphate of potash .....           | ...           | 1             | 171           | 275           | 110            | 1                                 | 110           | 668                           | 32                         | 700            |
| Tankage .....                      | ...           | 2             | 23            | ...           | 329            | 9                                 | 248           | 611                           | 531                        | 1,142          |
| Sheep manure .....                 | ...           | 26            | 14            | 126           | 465            | 17                                | 89            | 737                           | ...                        | 737            |
| Dried blood .....                  | ...           | ...           | ...           | 2             | 25             | 116                               | 102           | 245                           | 227                        | 472            |
| Whale products .....               | ...           | ...           | ...           | ...           | ...            | ...                               | 399           | 399                           | 252                        | 651            |
| Fish meal .....                    | ...           | ...           | ...           | ...           | 1              | ...                               | 760           | 761                           | 3,122                      | 3,883          |
| Ammonium phosphate .....           | ...           | 3             | ...           | 3             | 1,395          | 9,003                             | 301           | 10,705                        | 26,974                     | 37,679         |
| Other fertilizer materials .       | ...           | ...           | ...           | 627           | 1,177          | 102                               | 103           | 2,009                         | ...                        | 2,009          |
| <b>Total Fertilizer Materials.</b> | <b>12,923</b> | <b>9,416</b>  | <b>16,058</b> | <b>24,878</b> | <b>28,812</b>  | <b>9,691</b>                      | <b>7,222</b>  | <b>109,000</b>                | <b>252,657</b>             | <b>361,657</b> |
| <b>Total Mixed Fertilizers ...</b> | <b>8,692</b>  | <b>22,444</b> | <b>22,560</b> | <b>49,117</b> | <b>109,667</b> | <b>1,379</b>                      | <b>7,871</b>  | <b>221,730</b>                | <b>35,257</b>              | <b>256,987</b> |
| <b>GRAND TOTAL - 1938 ....</b>     | <b>21,615</b> | <b>31,860</b> | <b>38,618</b> | <b>73,995</b> | <b>138,479</b> | <b>11,070</b>                     | <b>15,093</b> | <b>330,730</b>                | <b>287,914</b>             | <b>618,644</b> |
| <b>GRAND TOTAL - 1937 ....</b>     | <b>22,051</b> | <b>34,582</b> | <b>35,832</b> | <b>58,763</b> | <b>124,100</b> | <b>9,280</b>                      | <b>13,668</b> | <b>298,276</b>                | <b>289,475</b>             | <b>587,751</b> |

(x) Preliminary figures - subject to revision.



Table 15 - TOTAL SALES IN CANADA OF FERTILIZER MATERIALS and MIXED FERTILIZERS FOR THE YEARS ENDED JUNE 30, 1937 and 1938. (Short tons)

| Province                              | Fertilizer Materials |         | Mixed Fertilizers |         |
|---------------------------------------|----------------------|---------|-------------------|---------|
|                                       | 1937                 | 1938    | 1937              | 1938    |
| Prince Edward Island .....            | 10,759               | 12,923  | 11,292            | 8,692   |
| Nova Scotia .....                     | 11,161               | 9,416   | 23,421            | 22,444  |
| New Brunswick .....                   | 16,133               | 16,058  | 19,699            | 22,560  |
| Quebec .....                          | 22,526               | 24,878  | 36,237            | 49,117  |
| Ontario .....                         | 31,330               | 28,812  | 92,770            | 109,667 |
| Manitoba, Saskatchewan and Alberta .. | 9,110                | 9,691   | 170               | 1,379   |
| British Columbia .....                | 5,974                | 7,222   | 7,694             | 7,871   |
| CANADA .....                          | 106,993              | 109,000 | 191,283           | 221,730 |
| Sold for Export .....                 | 263,141              | 252,657 | 26,334            | 35,257  |
| GRAND TOTAL .....                     | 370,134              | 361,657 | 217,617           | 256,987 |

DIRECTORY OF FIRMS INCLUDED IN THE FERTILIZER MANUFACTURING INDUSTRY, 1937.

NOTE - This Directory gives only the names of the firms which have been included in the Fertilizer Manufacturing Industry, and is not intended to be a complete list of the concerns which manufacture mixed fertilizers or fertilizer materials.

Names of Firms

Location of Plants

PRINCE EDWARD ISLAND -

Island Fertilizer Co. Ltd.

Charlottetown

NOVA SCOTIA -

Colonial Fertilizer Company  
Canadian Industries Limited

Nesbitt St., Windsor  
Pier 9, Halifax

NEW BRUNSWICK -

Canada Packers Limited  
International Fertilizers Limited  
Summers Fertilizer Co. Inc.

Bayside Drive, East Saint John  
East Saint John  
Prince William St., St. Stephen

QUEBEC -

Canadian Industries Limited  
International Fertilizers Limited  
  
Saguenay Fertilizers Co.

Beloeil  
National Harbours Board, Shed 29,  
Quebec  
Rivière du Moulin, Chicoutimi

ONTARIO -

Agricultural Chemicals Limited  
Canada Packers Limited  
Canadian Industries Limited  
Scottish Fertilizers Limited  
William Stone Sons, Limited, and  
National Fertilizers Limited  
Witts Fertilizer Works

Marsh St., Port Hope  
St. Clair Ave. W., Toronto  
King St. E., Chatham  
Welland  
  
Ingersoll  
Norwich

BRITISH COLUMBIA -

Canadian Industries Limited  
Consolidated Mining and Smelting Company  
of Canada, Limited  
Globe Fertilizer Co. Ltd.  
Buckerfields Ltd.

New Westminster  
  
Trail  
Foot Crompton Road, Vancouver  
New Westminster.





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