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DEPARTMENT OF TRADE AND COMMERCE
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ANNUAL INDUSTRY REPORT

CHEMICALS AND ALLIED PRODUCTS GROUP

THE FERTILIZER MANUFACTURING INDUSTRY, 1939.

Production by plants in Canada engaged principally in the manufacture of fertilizers was valued at \$13,165,164 in 1939, an increase of 2.5 per cent over the total of \$12,841,300 reported for 1938. In addition, there was a production of 207,413 tons of ammonium sulphate, cyanamide, fish fertilizers, and mixed fertilizers, valued at \$4,351,364 in 1939 and 195,351 tons valued at \$4,308,024 in 1938 by establishments which were classified to other industrial groups.

During 1939 there were 27 plants in Canada producing fertilizers as their major products and of these 10 were in Ontario, 5 in British Columbia, 5 in Quebec, 3 in New Brunswick, 3 in Nova Scotia, and 1 in Prince Edward Island. Capital employed increased to \$17,561,474 from \$17,155,945 in 1938; the number of workers declined to 1,211 from 1,232, and salaries and wages advanced to \$1,819,612 from \$1,560,873.

The total production of mixed fertilizers from all industries amounted to 279,425 tons worth \$7,223,177 at the factories in 1939, this total including 275,608 tons at \$7,068,283 made by plants in the fertilizer manufacturing industry and 3,817 tons at \$154,894 made in the meat-packing plants and glue factories. In 1938 the corresponding total was 283,634 tons at \$7,426,494 and in 1937 the output amounted to 243,802 tons at \$6,130,523.

Superphosphate was manufactured in 1939 by Canadian Industries Limited at McMasterville, Que., 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, Que., and The Steel Company of Canada, Limited, at Hamilton, Ont. Production during the calendar year 1939 amounted to 129,865 tons; imports totalled 3,217 tons, and exports amounted to 109,260 tons. Ammonium phosphate was made only by the Consolidated Mining and Smelting Company of Canada, Limited, at Trail, B. C.

A special survey of the fertilizer trade in Canada during the fertilizer year ended June 30, 1940, 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 13 and 14 of this bulletin. A total of 346,721 tons of mixtures and materials was sold in Canada during the year ended June 30, 1940, compared with 334,003 tons during the preceding twelve-month period.

Table 1 - PRINCIPAL STATISTICS OF THE FERTILIZER MANUFACTURING INDUSTRY, 1929 - 1939.

| 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 |
| 1938 ... | 26 | 17,155,945 | 1,232 | 1,560,873 | 654,359 | 8,344,853 | 12,841,300 |
| 1939 ... | 27 | 17,561,474 | 1,211 | 1,819,612 | 706,003 | 8,140,498 | 13,165,164 |
| % change 1939 from 1938 ... | - | + 2.4 | - 1.7 | + 16.6 | + 7.9 | - 2.4 | + 2.5 |

NOTE - Profits or losses cannot be calculated from the above figures as data are not available for general expense items such as interest, rent, depreciation, taxes, insurance, advertising, etc.

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1938 and 1939.

| 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>1938</u> | | | | | | | |
| New Brunswick ... | 3 | 1,068,839 | 83 | 118,111 | 3,672 | 1,118,615 | 1,444,951 |
| Quebec..... | 5 | 2,335,325 | 174 | 213,567 | 4,330 | 1,636,164 | 2,346,396 |
| Ontario..... | 10 | 3,745,994 | 390 | 439,178 | 23,787 | 2,629,553 | 3,844,364 |
| British Columbia. | 4 | 9,141,710 | 471 | 679,834 | 616,489 | 2,046,124 | 3,886,296 |
| Prince Edward Island.... | 1) | 864,077 | 114 | 110,183 | 6,081 | 914,397 | 1,319,293 |
| Nova Scotia..... | 3) | | | | | | |
| CANADA | 26 | 17,155,945 | 1,232 | 1,560,873 | 654,359 | 8,344,853 | 12,841,300 |
| <u>1939</u> | | | | | | | |
| New Brunswick.... | 3 | 1,218,348 | 101 | 132,517 | 12,878 | 1,173,915 | 1,305,493 |
| Quebec..... | 5 | 2,453,025 | 179 | 270,642 | 3,913 | 1,498,291 | 2,120,375 |
| Ontario..... | 10 | 3,829,941 | 359 | 505,748 | 23,184 | 2,568,783 | 3,752,835 |
| British Columbia. | 5 | 9,115,176 | 446 | 780,155 | 660,057 | 2,027,144 | 4,219,038 |
| Prince Edward Island.... | 1) | 944,984 | 126 | 130,550 | 5,971 | 872,365 | 1,267,423 |
| Nova Scotia..... | 3) | | | | | | |
| CANADA..... | 27 | 17,561,474 | 1,211 | 1,819,612 | 706,003 | 8,140,498 | 13,165,164 |

Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1938 and 1939.

| Province | Inventory value of | | | TOTAL CAPITAL EM- PLOYED |
|--------------------|--|---|--|-----------------------------------|
| | Present value of land, buildings, machinery and equipment | materials, supplies and finished products on hand, and stocks in process | Operating capital (cash, bills and accounts receiv- able, etc.) | |
| | \$ | \$ | \$ | \$ |
| <u>1938</u> | | | | |
| New Brunswick ... | 338,522 | 295,378 | 434,939 | 1,068,839 |
| Quebec..... | 884,900 | 801,164 | 649,261 | 2,335,325 |
| Ontario..... | 1,287,222 | 1,358,307 | 1,100,465 | 3,745,994 |
| British Columbia.. | 8,402,155 | 181,397 | 558,158 | 9,141,710 |
| Other provinces.. | 182,948 | 262,305 | 418,824 | 864,077 |
| CANADA..... | 11,095,747 | 2,898,551 | 3,161,647 | 17,155,945 |
| <u>1939</u> | | | | |
| New Brunswick.... | 348,894 | 314,782 | 554,672 | 1,218,348 |
| Quebec..... | 905,398 | 914,563 | 633,064 | 2,453,025 |
| Ontario..... | 1,297,132 | 1,492,360 | 1,040,449 | 3,829,941 |
| British Columbia.. | 8,396,647 | 152,499 | 566,030 | 9,115,176 |
| Other provinces.. | 225,255 | 236,293 | 483,436 | 944,984 |
| CANADA..... | 11,173,326 | 3,110,497 | 3,277,651 | 17,561,474 |

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1938 and 1939.

| Province | Average number of employees | | | | | Salaries | Wages | TOTAL SALARIES and WAGES |
|--------------------|-----------------------------|--------|----------|--------|-------|----------|-----------|--------------------------------|
| | On salaries | | On Wages | | TOTAL | | | |
| | Male | Female | Male | Female | | | | |
| <u>1938</u> | | | | | | | | |
| New Brunswick.... | 14 | 2 | 67 | .. | 83 | 34,991 | 83,120 | 118,111 |
| Quebec..... | 36 | 8 | 130 | .. | 174 | 96,541 | 117,026 | 213,567 |
| Ontario..... | 127 | 47 | 216 | .. | 390 | 247,564 | 191,614 | 439,178 |
| British Columbia.. | 66 | 13 | 387 | 5 | 471 | 157,606 | 522,228 | 679,834 |
| Other provinces.. | 16 | 7 | 91 | .. | 114 | 45,065 | 65,118 | 110,183 |
| CANADA..... | 259 | 77 | 891 | 5 | 1,232 | 581,767 | 979,106 | 1,560,873 |
| <u>1939</u> | | | | | | | | |
| New Brunswick.... | 15 | 3 | 83 | - | 101 | 41,536 | 90,981 | 132,517 |
| Quebec..... | 56 | 15 | 108 | .. | 179 | 160,908 | 109,734 | 270,642 |
| Ontario..... | 112 | 44 | 203 | - | 359 | 283,792 | 221,956 | 505,748 |
| British Columbia.. | 64 | 10 | 368 | 4 | 446 | 180,848 | 599,307 | 780,155 |
| Other provinces.. | 28 | 7 | 91 | - | 126 | 65,348 | 65,202 | 130,550 |
| CANADA..... | 275 | 79 | 853 | 4 | 1,211 | 732,432 | 1,087,180 | 1,819,612 |

Table 5 - WAGE-EARNERS, BY MONTHS, 1938 and 1939. (On the last day of each month or nearest work day)

| Month | 1 9 3 8 | | | 1 9 3 9 | | |
|-----------------|---------|--------|-------|---------|--------|-------|
| | Male | Female | TOTAL | Male | Female | TOTAL |
| January | 852 | 5 | 857 | 771 | 4 | 775 |
| February | 866 | 5 | 871 | 726 | 4 | 730 |
| March | 923 | 5 | 928 | 856 | 4 | 860 |
| April | 1,422 | 5 | 1,427 | 1,173 | 4 | 1,177 |
| May | 1,321 | 6 | 1,327 | 1,419 | 4 | 1,423 |
| June | 710 | 5 | 715 | 680 | 4 | 684 |
| July | 651 | 5 | 656 | 685 | 4 | 689 |
| August | 702 | 5 | 707 | 768 | 4 | 772 |
| September | 712 | 6 | 718 | 742 | 4 | 746 |
| October | 812 | 5 | 817 | 811 | 4 | 815 |
| November | 850 | 6 | 856 | 819 | 4 | 823 |
| December | 860 | 4 | 864 | 775 | 4 | 779 |
| AVERAGE..... | 891 | 5 | 896 | 853 | 4 | 857 |

Table 6 - REGULAR HOURS WORKED PER WEEK BY WAGE-EARNERS, 1939. (In one week of normal employment; overtime not included).

| Regular hours worked per week | No. of wage-earners | Percent of wage-earners | Regular hours worked per week | No. of wage-earners | Percent of wage-earners |
|-------------------------------|---------------------|-------------------------|--|---------------------|-------------------------|
| 30 hours or less..... | 102 | 7.7 | 51 - 54 hours | 88 | 6.7 |
| 31 - 43 hours | 477 | 36.0 | 55 hours | 19 | 1.4 |
| 44 hours | 41 | 3.1 | 56 - 64 hours | 112 | 8.5 |
| 45 - 47 hours | 54 | 4.1 | 65 hours and over... | 256 | 19.3 |
| 48 hours..... | 138 | 10.4 | TOTAL..... | 1,324 | 100.0 |
| 49 - 50 hours..... | 37 | 2.8 | Total wages paid in selected week..... | | \$ 29,792 |

Table 7 - FUEL AND ELECTRICITY USED, 1938 and 1939.

| Kind | Unit of measure | 1 9 3 8 | | 1 9 3 9 | |
|-----------------------------|-----------------|-------------|---------------|-------------|---------------|
| | | Quantity | Cost at works | Quantity | Cost at works |
| Anthracite coal | short ton | 32 | 423 | 36 | 454 |
| Bituminous coal - Canadian. | short ton | 560 | 2,580 | 1,643 | 6,966 |
| Imported. | short ton | 1,196 | 7,464 | 1,082 | 6,972 |
| Coke | short ton | 5 | 62 | 6 | 60 |
| Gasoline | Imp. gal. | 34,249 | 7,194 | 36,771 | 7,788 |
| Fuel oil | Imp. gal. | 1,680 | 135 | 1,940 | 165 |
| Other fuel | xxx | ... | 148 | ... | 120 |
| Electricity purchased | K.W.H. | 412,549,998 | 636,353 | 429,832,755 | 683,478 |
| TOTAL | \$ | ... | 654,359 | ... | 706,003 |

Table 8 - POWER EQUIPMENT, 1938 and 1939.

| | Ordinarily in use | | In reserve or idle | |
|---|-------------------|-------------------------|--------------------|-------------------------|
| | Number of units | Total rated horse power | Number of units | Total rated horse power |
| 1938 | | | | |
| Steam engines and steam turbines.... | 1 | 10 | - | - |
| Total primary equipment..... | 1 | 10 | - | - |
| Electric motors operated by purchased power | 904 | 25,682 | 74 | 647 |
| TOTAL..... | 905 | 25,692 | 74 | 647 |
| 1939 | | | | |
| Diesel engines..... | 1 | 42 | - | - |
| Total primary equipment..... | 1 | 42 | - | - |
| Electric motors operated by purchased power..... | 896 | 24,637 | 101 | 1,631 |
| TOTAL..... | 897 | 24,679 | 101 | 1,631 |

Table 9 - MATERIALS USED IN THE FERTILIZER MANUFACTURING INDUSTRY, 1938 and 1939.

| Materials | 1938 | | 1939 | |
|---|------------|---------------|------------|---------------|
| | Quantity | Cost at works | Quantity | Cost at works |
| | Short tons | \$ | Short tons | \$ |
| Ammonium phosphate | 2,973 | 156,421 | 3,575 | 171,698 |
| Ammonium sulphate (sulphate of ammonia) | 27,769 | 764,394 | 21,828 | 597,694 |
| Basic slag..... | - | - | 5,467 | 148,806 |
| Bone char | 480 | 12,193 | 511 | 13,722 |
| Bone meal and bone flour..... | 212 | 5,538 | 191 | 5,385 |
| Calcium cyanamide (cyanamid) | 5,501 | 171,267 | 4,348 | 134,330 |
| Calcium nitrate and nitrochalk..... | 582 | 16,020 | 644 | 17,915 |
| Dried blood..... | 783 | 32,697 | 503 | 23,997 |
| Fish meal or scrap..... | 481 | 17,033 | 314 | 10,705 |
| Lime or land plaster..... | 4,246 | 21,119 | 7,110 | 24,077 |
| Kainite and potash manure salts..... | 75 | 2,500 | 128 | 2,569 |
| Phosphate rock..... | 102,125 | 765,816 | 96,319 | 711,508 |
| Potassium chloride (muriate of potash) | 37,174 | 1,068,820 | 40,320 | 1,158,559 |
| Potassium nitrate (nitrate of potash). | 637 | 33,426 | 53 | 2,049 |
| Potassium sulphate (sulphate of potash) | 5,866 | 220,512 | 4,452 | 166,322 |
| Sodium nitrate (nitrate of soda)..... | 10,754 | 290,452 | 9,532 | 269,291 |
| Sulphuric acid, 66° Bé | 161,829 | 1,579,949 | 157,926 | 1,657,510 |
| Superphosphate, 16%..... | 12,750 | 139,239 | 7,270 | 83,183 |
| Superphosphate, 20%..... | 166,656 | 2,027,186 | 166,924 | 1,914,685 |
| Superphosphate, 45%..... | 837 | 32,274 | 795 | 28,425 |
| Tankage..... | 2,355 | 71,036 | 1,549 | 45,347 |
| Whale meat, bone and blood..... | 254 | 7,961 | 90 | 3,500 |
| All other materials..... | ... | 379,834 | - | 347,943 |
| Containers and shipping materials..... | ... | 529,166 | - | 601,278 |
| TOTAL..... | ... | 8,344,853 | - | 8,140,498 |

Table 10 - PRODUCTS OF THE FERTILIZER MANUFACTURING INDUSTRY, CALENDAR YEARS 1938 AND 1939.

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; for the total output of mixed fertilizers in Canada, see Table 11.

| Products | 1938 | | 1939 | |
|--|------------|------------------------|------------|------------------------|
| | Quantity | Selling value at works | Quantity | Selling value at works |
| | Short tons | \$ | Short tons | \$ |
| Mixed fertilizers | 284,755 | 7,278,006 | 275,608 | 7,068,283 |
| Superphosphate, ammonium phosphate and ammonium sulphate (completely manufactured) (1) | 217,488 | 4,329,934 | 236,464 | 4,918,088 |
| Superphosphate, milled and screened only | 13,378 | 205,821 | 8,921 | 142,682 |
| 16% | 34,478 | 601,437 | 30,716 | 545,916 |
| 20% | | | | |
| Ammonium sulphate, milled and screened only | 2,856 | 90,285 | 3,450 | 112,027 |
| Muriate of potash, milled and screened only | 4,956 | 158,746 | 5,873 | 209,595 |
| Nitrate of soda, milled and screened only | 2,691 | 80,133 | 2,091 | 70,921 |
| All other products | ... | 96,938 | - | 97,652 |
| TOTAL | ... | 12,841,300 | - | 13,165,164 |

(1) 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 - TOTAL PRODUCTION OF MIXED FERTILIZERS IN CANADA, FROM ALL INDUSTRIAL GROUPS, CALENDAR YEARS 1921 - 1939.

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

| Calendar Year | Quantity | Selling Value at works | Calendar Year | Quantity | Selling Value at works |
|---------------|----------|------------------------|---------------|----------|------------------------|
| | Tons | \$ | | Tons | \$ |
| 1921 | 46,900 | 2,399,855 | 1931 | 113,632 | 3,247,694 |
| 1922 | 40,843 | 1,818,136 | 1932 | 95,857 | 2,447,407 |
| 1923 | 37,587 | 1,366,343 | 1933 | 106,421 | 2,777,702 |
| 1924 | 38,126 | 1,539,003 | 1934 | 138,750 | 3,517,193 |
| 1925 | 47,076 | 1,663,129 | 1935 | 145,844 | 3,442,017 |
| 1926 | 56,888 | 2,043,093 | 1936 | 175,703 | 4,222,587 |
| 1927 | 72,112 | 2,552,421 | 1937 | 243,802 | 6,130,523 |
| 1928 | 76,180 | 3,017,648 | 1938 | 288,634 | 7,426,494 |
| 1929 | 75,164 | 3,098,567 | 1939 | 279,425 | 7,223,177 |
| 1930 | 78,158 | 2,543,226 | | | |

Table 12 - IMPORTS INTO CANADA AND EXPORTS OF FERTILIZERS AND FERTILIZER MATERIALS, CALENDAR YEARS 1938 and 1939.

| | Unit of measure | 1 9 3 8 | | 1 9 3 9 | |
|--|-----------------|----------|-----------|----------|-----------|
| | | Quantity | Value \$ | Quantity | Value \$ |
| IMPORTS | | | | | |
| Tankage | Ton | 1,598 | 42,564 | 2,037 | 53,083 |
| Bone dust, charred bone, bone ash, bone meal, and bone flour | Ton | 2,411 | 77,280 | 2,376 | 85,992 |
| Fish offal or refuse..... | Ton | 955 | 59,289 | 509 | 40,189 |
| Ammonium sulphate..... | Ton | 5,910 | 156,540 | 3,217 | 94,854 |
| Basic slag, crushed or ground.. | Ton | 10,644 | 89,780 | 4,779 | 46,705 |
| Kainite, and other German potash salts..... | Ton | 120 | 3,850 | 5 | 187 |
| Potash, muriate of, crude..... | Ton | 48,389 | 1,108,897 | 45,391 | 1,135,151 |
| Potash, sulphate of, crude..... | Ton | 6,099 | 173,859 | 6,398 | 193,652 |
| Soda, nitrate of..... | Ton | 34,568 | 918,701 | 40,131 | 1,148,575 |
| Superphosphate..... | Ton | 114,357 | 1,092,859 | 104,126 | 979,052 |
| Fertilizers, compounded or manufactured, not elsewhere specified..... | Ton | 8,758 | 216,378 | 8,289 | 237,832 |
| Fertilizers, unmanufactured (from April, 1938)..... | Ton | 5,376 | 111,665 | 3,629 | 112,306 |
| EXPORTS | | | | | |
| Tankage | Ton | 14,013 | 353,009 | 11,971 | 401,413 |
| Bone dust and meal..... | Ton | 345 | 9,715 | 123 | 4,772 |
| Fish offal or refuse..... | Ton | 1,168 | 53,086 | 445 | 9,749 |
| Ammonium sulphate..... | Ton | 77,191 | 1,697,204 | 109,260 | 2,508,364 |
| Cyanamide..... | Ton | 138,477 | 3,143,238 | 166,107 | 3,714,975 |
| Phosphate (fertilizer) (from Jan. 1, 1939)..... | Ton) | | | 52,873 | 1,684,040 |
| Fertilizers, manufactures, n.o.p. (Included "Phosphate (fertilizer)" prior to Jan. 1, 1939)..... | Ton) | 65,910 | 2,225,744 | | |
| | | | | 35,633 | 1,271,769 |

Table 13 - TOTAL SALES IN CANADA OF FERTILIZER MATERIALS and MIXED FERTILIZERS FOR THE YEARS ENDED JUNE 30, 1939 and 1940. (Short tons)

| Province | Fertilizer Materials | | Mixed Fertilizers | |
|--|----------------------|---------------|-------------------|----------------|
| | 1939 | 1940 | 1939 | 1940 |
| Prince Edward Island | 12,725 | 10,415 | 8,124 | 13,358 |
| Nova Scotia..... | 12,147 | 7,094 | 22,706 | 22,474 |
| New Brunswick..... | 14,554 | 12,312 | 23,084 | 25,893 |
| Quebec..... | 21,126 | 11,921 | 55,648 | 70,004 |
| Ontario..... | 28,072 | 28,886 | 114,061 | 119,084 |
| Manitoba, Saskatchewan and Alberta.... | 7,287 | 10,320 | 1,106 | 1,579 |
| British Columbia..... | 5,166 | 4,690 | 8,161 | 8,691 |
| CANADA..... | 101,077 | 85,638 | 232,890 | 261,083 |

Table 14 - SALES OF FERTILIZERS IN CANADA, EXCEPT FOR MANUFACTURING PURPOSES, DURING THE YEAR ENDED JUNE 30, 1940.

(Short tons)

| Fertilizers | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba, Saskatch- ewan and Alberta | British Columbia | TOTAL SOLD IN CANADA |
|--|----------------------------|----------------|------------------|---------------|----------------|---|---------------------|-------------------------------|
| Nitrate of soda | 602 | 2,605 | 1,497 | 322 | 667 | 95 | 270 | 6,058 |
| Sulphate of ammonia..... | 1,514 | 574 | 1,616 | 611 | 1,272 | 142 | 847 | 6,576 |
| Cyanamide..... | 5 | 316 | 6 | 65 | 911 | ... | 91 | 1,394 |
| Nitrochalk..... | 6 | 6 | ... | 3 | ... | ... | ... | 15 |
| Calcium nitrate..... | ... | ... | ... | ... | ... | ... | ... | ... |
| Bone phosphate..... | ... | ... | ... | 18 | 1 | ... | ... | 19 |
| Superphosphate..... | 5,628 | 3,207 | 6,468 | 9,566 | 18,874 | 425 | 831 | 44,999 |
| Natural phosphate rock..... | ... | ... | ... | 45 | ... | ... | ... | 45 |
| Basic slag..... | ... | 151 | 45 | 445 | 13 | ... | 45 | 699 |
| Bone meal or bone flour..... | 3 | 77 | 8 | 51 | 550 | 53 | 371 | 1,113 |
| Muriate of potash..... | 2,657 | 110 | 2,325 | 331 | 2,032 | 2 | 351 | 7,808 |
| Sulphate of potash..... | ... | 1 | ... | 41 | 49 | ... | 94 | 185 |
| Tankage..... | ... | 2 | 16 | ... | 783 | 10 | 211 | 1,022 |
| Sheep manure..... | ... | 45 | ... | 150 | 390 | 15 | 74 | 674 |
| Dried blood..... | ... | ... | ... | ... | 167 | 23 | 173 | 363 |
| Whale products..... | ... | ... | ... | ... | 4 | ... | 362 | 366 |
| Fish meal..... | ... | ... | 5 | ... | 1 | ... | 383 | 389 |
| Ammonium phosphate..... | ... | ... | ... | 3 | 2,376 | 9,338 | 527 | 12,444 |
| Other fertilizer materials..... | ... | ... | 326 | 270 | 796 | 17 | 60 | 1,469 |
| Total Fertilizer Materials..... | 10,415 | 7,094 | 12,312 | 11,921 | 28,886 | 10,320 | 4,690 | 85,638 |
| Total Mixed Fertilizers..... | 13,358 | 22,474 | 25,893 | 70,004 | 119,084 | 1,579 | 8,691 | 261,083 |
| GRAND TOTAL - 1940..... | 23,773 | 29,568 | 38,205 | 81,925 | 147,970 | 11,899 | 13,381 | 346,721 |
| GRAND TOTAL - 1939 | 20,849 | 34,853 | 37,638 | 76,774 | 142,169 | 8,393 | 13,327 | 334,003 |

DIRECTORY OF FIRMS INCLUDED IN THE FERTILIZER MANUFACTURING INDUSTRY, 1939.

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 Company Limited, The

Charlottetown

NOVA SCOTIA -

Canadian Industries Limited
Colonial Fertilizer Company
Cornwallis Fertilizer Company

Pier 9, Halifax
Nesbit Street, Windsor
Port Williams

NEW BRUNSWICK -

Canada Packers Limited (Fertilizer Division)
International Fertilizers Limited
Summers Fertilizer Company, Inc.

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

QUEBEC -

Agricultural Chemicals Limited
Canada Packers Limited
Canadian Industries Limited
International Fertilizers Limited
Saguenay Fertilizers Company

Chambly
6000 St. Patrick Street, Montreal
McMasterville
National Harbour Board, Shed 29,
Quebec
Langevin Street, Chicoutimi

ONTARIO -

Agricultural Chemicals Limited
Canada Packers Limited
Canadian Industries Limited
Canadian Industries Limited
Grose Fertilizers & Chemicals Limited
Lincoln Supply Company
Port Dover Fertilizers
Scottish Fertilizers Limited
Stone, William, Sons, Limited, and
National Fertilizers Limited
Witts Fertilizer Works

Marsh Street, Port Hope
2,300 St. Clair Ave., W., Toronto
King Street East, Chatham
Burlington & Ottawa Sts., Hamilton
4004 Dundas Street West, Toronto
2 Race Street, St. Catharines
Port Dover
Welland
Ingersoll
Norwich

BRITISH COLUMBIA -

Buckerfield's, Limited
Canadian Industries Limited
Consolidated Mining and Smelting Company of
Canada, Limited
Globe Fertilizer Company Limited
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