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CANADA



THE FERTILIZERS INDUSTRY
1951



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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 4 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Construction; **Volume IV**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries 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, by Provinces
 - Section 1. Principal Statistics of Major Industrial Groups and Leading Industries, 50¢.
 - Section 2. Principal Statistics of Individual Industries, 75¢.
 - Section 3. Principal Statistics by Regional Distribution, 75¢.
- III—Foods and Beverages
- IV—Tobacco and Tobacco Products
- V—Rubber Products
- VI—Leather Products
- VII—Textiles
- VIII—Wood and Paper Products
- IX—Printing Trades
- X—Iron and Steel Products
- XI—Transportation Equipment
- XII—Non-ferrous Metal Products
- XIII—Electrical Apparatus and Supplies
- XIV—Non-metallic Mineral Products
- XV—Products of Petroleum and Coal
- XVI—Chemicals and Allied Products
- XVII—Miscellaneous Manufactures

The present report belongs in Part XVI, 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 Fertilizer Manufacturing 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 FERTILIZERS INDUSTRY

1951

Production by factories in Canada which were engaged principally in the manufacture of fertilizers was valued at \$74,488,720 in 1951 compared with \$68,996,819 in 1950. In addition, there was a production of 212,951 tons of cyanamid, ammonium sulphate, mixed fertilizers and fish fertilizers valued at \$9,769,496 in 1951, and 224,966 tons at \$9,757,735 in 1950, by establishments which were classified to other industrial groups. The quantity of fish used as fertilizer in 1951 amounted to 43,072 barrels valued at \$41,177.

Thirty-nine plants were occupied chiefly in the manufacture of fertilizers in 1951, there being 17 in Ontario, 7 in Quebec, 6 in British Columbia, 3 in New Brunswick, 3 in Nova Scotia, 2 in Prince Edward Island and 1 in Alberta. Workers in these establishments declined from 3,253 in 1950 to 3,218 in 1951 although total salaries and wages increased from \$9,422,571 to \$10,310,069.

Total production of mixed fertilizers in 1951 from all industries amounted to 696,600 tons worth \$29,193,000 and included 692,500 tons at \$28,921,000 made by plants in the fertilizer manufacturing industry and 4,100 tons at \$272,000 made in the meat packing, oils and fats and adhesives industries. In 1950 the corresponding total was 669,900 tons at \$26,519,000 and in 1949 it was 661,100 tons at \$24,794,000.

Superphosphate was manufactured in 1951 by Canadian Industries Limited and Green Valley Fertilizer and Chemical Co. Ltd. The former had works at McMasterville, Quebec, and Hamilton, Ontario, while the latter operated a plant at New Westminster, British Columbia. Ammonium nitrate (fertilizer grade) was manufactured in 1951 by the North American Cyanamid Limited (Welland Works) at Niagara Falls in Ontario, and by Consolidated Mining and Smelting Company of Canada Limited at Trail, British Columbia, and at Calgary, Alberta. The output figures are not published separately since there were only two producers in each instance.

Ammonium sulphate was made by the Consolidated Mining and Smelting Company of Canada Limited, at Trail, British Columbia and also by the following coke manufacturers: Algoma Steel Corporation Limited at Sault Ste. Marie, Ontario; Dominion Iron and Steel Ltd. at Sydney, Nova Scotia; Hamilton By-Product Coke Ovens Limited at Hamilton, Ontario; Montreal Coke and Manufacturing Company at Montreal, Quebec; and the Steel Company of Canada Limited at Hamilton, Ontario. Production during the calendar year 1951 amounted to 209,159 tons; imports totalled 314 tons, and exports amounted to 145,724 tons. Ammonium phosphate was made only by the Consolidated Mining and Smelting Company of Canada Limited at Trail, British Columbia.

A special survey of the fertilizer trade in Canada during the fertilizer year ended June 30, 1952, 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 6-9 of this bulletin. A total of 768,545 tons of mixtures and materials was sold in Canada during the year ended June 30, 1952, compared with 770,507 tons during the preceding twelve-month period.

TABLE 1. Principal Statistics of the Fertilizers Industry, 1947-1951

| Year | Number of plants | 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 |
|--------------------------------------|------------------|---------------------|--------------------|---------------------------------------|----------------------------|--|
| | | | \$ | \$ | \$ | \$ |
| 1947 | 31 | 3,258 | 7,283,119 | 2,465,076 | 27,417,467 | 58,784,345 |
| 1948 | 33 | 3,169 | 8,015,656 | 2,227,565 | 30,043,381 | 63,986,427 |
| 1949 | 32 | 3,269 | 9,004,943 | 1,772,400 | 31,671,468 | 67,428,067 |
| 1950 | 36 | 3,253 | 9,422,571 | 1,996,118 | 33,349,706 | 68,996,819 |
| 1951 | 39 | 3,218 | 10,310,069 | 1,766,565 | 35,294,282 | 74,488,720 |
| Per cent change 1951 from 1950 | | + 1.1 | + 9.4 | - 11.5 | + 5.8 | + 8.0 |

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, 1950 and 1951

| Province | Number of plants | 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 |
|---------------------------|------------------|---------------------|--------------------|---------------------------------------|----------------------------|--|
| | | | \$ | \$ | \$ | \$ |
| 1950 | | | | | | |
| Prince Edward Island..... | 2 | 120 | 218,083 | 20,330 | 2,776,672 | 3,361,666 |
| Nova Scotia..... | 3 | | | | | |
| New Brunswick..... | 3 | 115 | 302,552 | 43,644 | 3,190,450 | 4,055,644 |
| Quebec..... | 6 | 430 | 1,212,182 | 66,137 | 5,470,625 | 7,491,087 |
| Ontario..... | 14 | 921 | 2,583,086 | 941,803 | 11,874,140 | 21,237,911 |
| Alberta..... | 1 | 1,667 | 5,106,668 | 924,004 | 10,037,819 | 32,850,511 |
| British Columbia..... | 7 | | | | | |
| Canada..... | 36 | 3,253 | 9,422,571 | 1,996,118 | 33,349,706 | 68,996,819 |
| 1951 | | | | | | |
| Prince Edward Island..... | 2 | 102 | 209,041 | 22,082 | 2,777,996 | 3,733,067 |
| Nova Scotia..... | 3 | | | | | |
| New Brunswick..... | 3 | 111 | 284,550 | 41,054 | 2,725,288 | 3,412,615 |
| Quebec..... | 7 | 445 | 1,325,508 | 70,498 | 5,831,712 | 8,277,776 |
| Ontario..... | 17 | 923 | 2,657,806 | 835,217 | 13,374,475 | 22,878,892 |
| Alberta..... | 1 | 1,637 | 5,833,164 | 797,714 | 10,584,811 | 36,186,370 |
| British Columbia..... | 6 | | | | | |
| Canada..... | 39 | 3,218 | 10,310,069 | 1,766,565 | 35,294,282 | 74,488,720 |

TABLE 3. Products of the Fertilizers Industry, Calendar Years, 1950 and 1951

| Product | 1950 | | 1951 | |
|--|----------|------------------------|----------|------------------------|
| | Quantity | Selling value at works | Quantity | Selling value at works |
| | Tons | \$ | Tons | \$ |
| Mixed fertilizers | 666,147 | 26,300,338 | 692,459 | 28,920,545 |
| Superphosphate, ammonium nitrate (fertilizer grade), ammonium phosphate and ammonium sulphate (completely manufactured) ¹ | 838,691 | 40,621,505 | 824,516 | 43,326,405 |
| Superphosphate, milled and screened only: | | | | |
| 16% - 18% P ₂ O ₅ | 204 | 6,772 | 1,591 | 51,140 |
| 20% P ₂ O ₅ | 14,697 | 455,444 | 13,227 | 462,831 |
| Ammonium sulphate, milled and screened only | 471 | 27,670 | 368 | 22,022 |
| Muriate of potash, milled and screened only: | | | | |
| 50% K ₂ O | 313 | 16,339 | 124 | 6,385 |
| 60% K ₂ O | 1,323 | 78,202 | 868 | 49,840 |
| Nitrate of soda, milled and screened only | 86 | 4,730 | — | — |
| All other products | — | 1,485,819 | — | 1,649,552 |
| Total for fertilizers industry | — | 68,996,819 | — | 74,488,720 |
| Fertilizers made in other industries (cyanamid, ammonium sulphate, mixtures, etc.) | — | 9,757,735 | — | 9,769,496 |
| Total value of all fertilizers produced | — | 78,754,554 | — | 84,258,216 |

1. Each of these products was made by only one or two firms in this industry, hence the production figures cannot be shown separately.

Note. The Fertilizers Industry includes only the concerns which are engaged chiefly in the manufacture of fertilizers. Some fertilizers are made also in the other industries; for example, ammonium sulphate is produced as a by-product in coke plants, cyanamid is made by a firm which is classified to the heavy chemicals industry and a small amount of mixed fertilizer is made in the slaughtering and meat-packing industry. For the total production of mixed fertilizers, see table 5.

TABLE 4. Materials Used in the Fertilizers Industry, 1950 and 1951

| Material | 1950 | | 1951 | |
|--|------------|-------------------|------------|-------------------|
| | Quantity | Cost at works | Quantity | Cost at works |
| | Short tons | \$ | Short tons | \$ |
| Ammonia, anhydrous | 45,373 | 1,706,561 | 51,199 | 2,018,006 |
| Ammonia liquor | — | 1,260,351 | — | 1,432,048 |
| Ammonium nitrate | 9,273 | 675,729 | 7,550 | 616,538 |
| Ammonium phosphate: | | | | |
| 11-48-0 | 4,407 | 357,946 | 4,735 | 382,759 |
| 16-20-0 | 1,499 | 85,067 | 4,416 | 210,047 |
| Ammonium sulphate (sulphate of ammonia) | 33,429 | 1,409,470 | 31,964 | 1,532,282 |
| Bone meal and bone flour | 257 | 22,706 | 54 | 4,303 |
| Borax | 227 | 17,114 | 307 | 16,664 |
| Brucite fines | 673 | 16,882 | 52 | 1,144 |
| Calcium cyanamide (cyanamid) | 3,106 | 162,073 | 2,160 | 129,695 |
| Coke (except for fuel) | 97,528 | 1,685,765 | 99,360 | 1,777,914 |
| Diatomaceous earth | 7,861 | 344,461 | 7,352 | 350,685 |
| Dried blood and blood meal | 57 | 5,898 | 42 | 4,297 |
| Limestone | 44,474 | 117,865 | 40,856 | 139,277 |
| Lime or land plaster | 436 | 2,842 | 84 | 1,348 |
| Magnesium oxide | 898 | 33,388 | 1,233 | 56,033 |
| Magnesium sulphate | 39 | 3,097 | 81 | 6,703 |
| Phosphate rock | 421,304 | 5,789,354 | 425,107 | 6,050,864 |
| Potassium chloride (muriate of potash): | | | | |
| 50% K ₂ O | 13,281 | 645,575 | 14,338 | 511,965 |
| 80% K ₂ O | 63,115 | 3,623,209 | 62,591 | 3,412,499 |
| Potassium nitrate (nitrate of potash) | 75 | 15,935 | 76 | 13,832 |
| Potassium sulphate (sulphate of potash) | 8,761 | 459,615 | 10,651 | 542,364 |
| Potassium magnesium sulphate (sulphate of potash magnesia) | 2,605 | 85,315 | 2,455 | 86,114 |
| Potash manure salts and kainite | 336 | 6,475 | — | — |
| Sand | 44,877 | 115,631 | 56,658 | 142,493 |
| Sodium nitrate (nitrate of soda) | 358 | 23,908 | 99 | 6,853 |
| Sulphuric acid, 100% | 503,865 | 2,764,743 | 510,090 | 2,852,700 |
| Superphosphate: | | | | |
| 15-18% P ₂ O ₅ | 15,918 | 296,198 | 22,609 | 441,601 |
| 20% P ₂ O ₅ | 294,176 | 6,540,168 | 301,655 | 7,311,118 |
| 38-48% P ₂ O ₅ | 11,010 | 389,014 | 18,265 | 843,184 |
| Ammoniated -3-18-0 | 8,654 | 278,761 | 17 | 595 |
| Tankage | 397 | 11,363 | 142 | 3,944 |
| Urea | 572 | 50,770 | 699 | 69,331 |
| All other materials | — | 1,133,323 | — | 911,570 |
| Containers and shipping materials | — | 3,121,114 | — | 3,613,506 |
| Total | — | 33,349,706 | — | 35,294,282 |

TABLE 5. Total Production of Mixed Fertilizers, from All Industrial Groups, Calendar Years 1942-1951

| Year | Quantity | Selling value at works | Year | Quantity | Selling value at works |
|------------|----------|------------------------|------------|----------|------------------------|
| | Tons | \$ | | Tons | \$ |
| 1942 | 406,100 | 12,480,000 | 1947 | 673,800 | 21,998,000 |
| 1943 | 507,800 | 15,039,000 | 1948 | 650,200 | 22,736,000 |
| 1944 | 542,500 | 15,586,000 | 1949 | 661,100 | 24,794,000 |
| 1945 | 539,500 | 16,256,000 | 1950 | 669,900 | 26,519,000 |
| 1946 | 597,900 | 17,956,000 | 1951 | 696,600 | 29,193,000 |

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

TABLE 6. Sales in Canada of Fertilizers, Except for Manufacturing Purposes, Year Ended June 30, 1952

| Kind | New-foundland | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba | Saskatchewan | Alberta | British Columbia | Total sold in Canada |
|--|---------------|----------------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------|----------------------|
| | | | | | | | | | | | |
| Fertilizer Materials | | | | | | | | | | | |
| Nitrate of soda | 297 | — | 1 | — | 88 | 508 | — | — | — | 9 | 903 |
| Sulphate of ammonia | 13 | 143 | 181 | 78 | 106 | 326 | 45 | 39 | 547 | 2,157 | 3,635 |
| Cyanamide | — | 6 | 69 | 2 | 37 | 2,561 | — | — | — | 143 | 2,818 |
| Ammonium nitrate | 106 | 334 | 413 | 290 | 455 | 10,108 | 59 | 102 | 795 | 1,960 | 14,622 |
| Ammonium phosphate — 11-48-0 | — | — | — | — | 22 | 3,168 | 21,511 | 25,626 | 26,461 | 1,039 | 77,827 |
| 16-20-0 | — | — | — | — | — | 245 | 5,055 | 1,703 | 3,651 | 2,792 | 13,446 |
| Superphosphate — 20% | 20 | 726 | 1,232 | 589 | 7,167 | 14,381 | — | — | — | 1,888 | 26,008 |
| 45% | — | — | — | — | — | 31 | — | — | — | — | 31 |
| Natural phosphate rock | — | — | — | — | 520 | 380 | — | — | — | 103 | 1,003 |
| Basic slag | — | 1 | — | — | 1,077 | — | — | — | — | — | 1,078 |
| Bone meal, bone flour, etc. | — | — | 14 | 8 | 33 | 486 | 28 | — | 129 | 1,408 | 2,106 |
| Muriate of potash — 50% K ₂ O | — | — | — | 2 | 45 | 226 | 4 | — | — | — | 277 |
| 60% K ₂ O | 3 | 128 | 35 | 81 | 80 | 2,913 | — | — | — | 531 | 3,771 |
| Sulphate of potash | — | — | 5 | 1 | — | 240 | — | — | — | 92 | 338 |
| Tankage | — | — | — | — | — | 815 | — | — | 135 | 194 | 1,144 |
| Sheep manure | — | — | 51 | — | 474 | 829 | 16 | 16 | — | 134 | 1,520 |
| Dried blood | — | — | — | — | — | 8 | — | — | 43 | 50 | 101 |
| Other fertilizer materials ¹ | — | 15 | 114 | 45 | 742 | 3,993 | — | — | — | 517 | 5,426 |
| Total materials | 439 | 1,353 | 2,115 | 1,096 | 10,846 | 41,218 | 26,718 | 27,486 | 31,761 | 13,017 | 156,049 |
| Mixed fertilizers (see Table 7) ... | 4,349 | 41,514 | 27,151 | 62,304 | 122,106 | 337,731 | 366 | 78 | 87 | 16,810 | 612,496 |
| Total — 1951-52 | 4,788 | 42,867 | 29,266 | 63,400 | 132,952 | 378,949 | 27,084 | 27,564 | 31,848 | 29,827 | 768,545 |
| Total — 1950-51 — Materials | 394 | 1,620 | 2,876 | 2,476 | 10,233 | 34,135 | 22,385 | 31,362 | 35,763 | 12,689 | 153,933 |
| Mixtures | 4,267 | 33,637 | 29,961 | 57,352 | 140,181 | 334,161 | 330 | 86 | 94 | 16,505 | 616,574 |
| Total | 4,661 | 35,257 | 32,837 | 59,828 | 150,414 | 368,296 | 22,715 | 31,448 | 35,857 | 29,194 | 770,507 |

1. Lime has not been included.

TABLE 7. Mixed Fertilizers Sold During the Year Ended June 30, 1952

| Analysis | New-foundland | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba, Saskatchewan and Alberta | British Columbia | Total sold in Canada | Exported from Canada |
|------------------------------------|---------------|----------------------|---------------|---------------|----------------|----------------|------------------------------------|------------------|----------------------|----------------------|
| | | | | | | | | | | |
| N | | | | | | | | | | |
| P₂O₅ | | | | | | | | | | |
| K₂O | | | | | | | | | | |
| 0 12 12 | — | — | — | — | 15 | 10,094 | — | 249 | 10,358 | — |
| 0 12 20 | — | — | — | — | 6 | 4,548 | — | 239 | 4,793 | — |
| 0 16 8 | — | — | 4 | — | 3,354 | 7,347 | — | — | 10,705 | 18 |
| 2 8 16 | — | — | — | 1 | 1,656 | 66 | — | — | 1,723 | 1 |
| 2 10 8 | — | — | — | — | — | 13,400 | — | — | 13,400 | — |
| 2 12 6 | — | — | — | — | 33,599 | 89,334 | — | — | 122,933 | 33 |
| 2 12 10 | — | — | — | — | 13,271 | 95,328 | 2 | 47 | 108,648 | — |
| 2 12 16 | — | — | — | — | 2 | 3,981 | — | — | 3,983 | — |
| 2 14 8 | — | — | — | — | 2,516 | 3,174 | — | — | 5,690 | — |
| 2 16 6 | — | — | — | — | 12,177 | 13,967 | 2 | 798 | 26,944 | — |
| 3 10 8 | — | — | — | — | — | 3,296 | — | — | 3,296 | — |
| 3 12 16 | — | — | — | — | — | 1,574 | — | — | 1,574 | — |
| 3 15 6 | 727 | 7,883 | 13,326 | 10,225 | — | 736 | — | — | 32,897 | 355 |
| 3 18 0 | — | — | — | — | 238 | 850 | — | — | 1,088 | — |
| 3 18 9 | — | — | — | — | — | 13,110 | — | — | 13,110 | — |
| 4 8 10 | — | — | — | — | 35,355 | 26,271 | 3 | — | 61,629 | 25 |
| 4 10 10 | — | — | — | — | — | — | — | 5,182 | 5,182 | 39 |
| 4 12 6 | — | — | — | 1 | 1,242 | 3,376 | — | — | 4,619 | 67 |
| 4 12 10 | — | — | — | — | 143 | 16,513 | 41 | 2 | 16,699 | — |
| 4 24 12 | — | — | — | — | 27 | 12,739 | 2 | — | 12,768 | — |
| 5 7 10 | — | — | — | — | — | — | — | — | — | 494 |
| 5 8 10 | — | — | — | — | 1,465 | — | — | — | 1,465 | — |
| 5 10 5 | — | — | — | — | 554 | 1,661 | 209 | 704 | 3,128 | 32 |
| 5 10 10 | 2,777 | 11,863 | 8,112 | 35,008 | 6,464 | 66 | — | — | 64,290 | 4,238 |
| 5 10 13 | 121 | 21,335 | 2,085 | 11,596 | 8,416 | 7,488 | 38 | — | 51,079 | 12 |
| 6 8 6 | — | — | — | — | — | — | — | 2,427 | 2,427 | — |
| 6 9 9 | 2 | 14 | 7 | 852 | — | — | — | — | 875 | 3,554 |
| 6 9 12 | — | 350 | 27 | 2,950 | — | — | — | — | 3,327 | 26,203 |
| 6 12 6 | 702 | 22 | 2,546 | 1,424 | — | — | — | — | 4,694 | 411 |
| 6 30 15 | — | — | — | — | — | — | — | 1,612 | 1,612 | — |
| 8 10 5 | — | — | — | — | — | — | — | 1,629 | 1,629 | — |
| 8 12 16 | — | — | — | — | — | — | — | — | — | 3,028 |
| 9 5 7 | — | 4 | — | 85 | 1,155 | 329 | — | — | 1,573 | 17 |
| 9 9 7 | 12 | 14 | 877 | 73 | — | — | — | — | 976 | — |
| 10 5 10 | — | — | — | — | — | 1,900 | — | — | 1,900 | — |
| 10 6 4 | — | — | 13 | 34 | 129 | 602 | 23 | 51 | 852 | — |
| 10 10 10 | — | — | 5 | — | 4 | 2,268 | — | — | 2,277 | 503 |
| 10 20 10 | — | — | — | — | — | — | — | 1,677 | 1,677 | — |
| Miscellaneous other mixtures | 8 | 29 | 149 | 55 | 318 | 3,713 | 211 | 2,193 | 6,676 | 3,625 |
| Total, 1952 | 4,349 | 41,514 | 27,151 | 62,304 | 122,106 | 337,731 | 531 | 16,810 | 612,496 | 42,635 |
| Total, 1951 | 4,267 | 33,637 | 29,961 | 57,352 | 140,181 | 334,161 | 510 | 16,505 | 616,574 | 26,395 |

Note: Figures in this table include tobacco fertilizers and fertilizers containing boron and magnesium oxide.

TOTAL SALES IN CANADA OF FERTILIZER MATERIALS
AND
MIXED FERTILIZER FOR THE YEARS ENDED JUNE 30, 1943-52
(THOUSAND NET TONS)

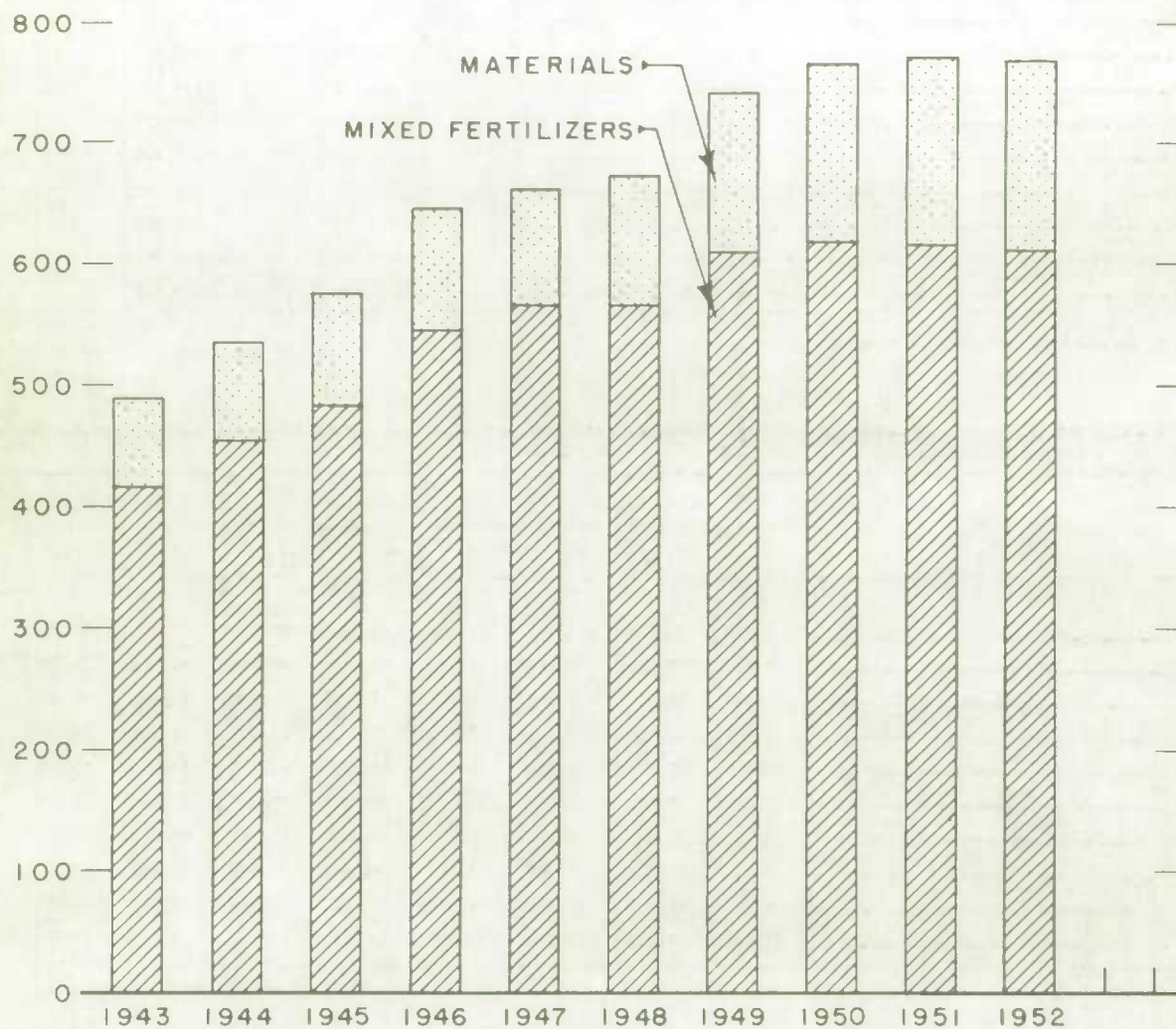


TABLE 8. Nitrogen, Phosphoric Acid and Potash Contained in Fertilizers Sold in Canada During the Year Ended June 30, 1952

| | In materials | | | In mixtures | | | Total | | |
|---------------------------|--------------|-------------------------------|------------------|-------------|-------------------------------|------------------|--------|-------------------------------|------------------|
| | N | P ₂ O ₅ | K ₂ O | N | P ₂ O ₅ | K ₂ O | N | P ₂ O ₅ | K ₂ O |
| | (short tons) | | | | | | | | |
| Newfoundland | 85 | 4 | 2 | 210 | 485 | 381 | 295 | 489 | 383 |
| Prince Edward Island..... | 140 | 145 | 77 | 1,923 | 4,543 | 4,482 | 2,063 | 4,688 | 4,559 |
| Nova Scotia | 189 | 250 | 24 | 1,152 | 3,424 | 2,110 | 1,341 | 3,682 | 2,134 |
| New Brunswick | 112 | 120 | 50 | 2,972 | 6,725 | 6,156 | 3,084 | 6,645 | 6,206 |
| Quebec | 206 | 1,784 | 80 | 3,714 | 13,407 | 10,470 | 3,920 | 15,191 | 10,550 |
| Ontario | 4,715 | 4,844 | 1,993 | 8,340 | 42,046 | 30,217 | 13,055 | 46,890 | 32,210 |
| Manitoba | 3,204 | 11,343 | 2 | 21 | 48 | 26 | 3,225 | 11,391 | 28 |
| Saskatchewan | 3,083 | 12,641 | — | 3 | 10 | 7 | 3,086 | 12,651 | 7 |
| Alberta | 3,886 | 13,472 | — | 3 | 12 | 6 | 3,889 | 13,484 | 8 |
| British Columbia..... | 1,737 | 1,810 | 366 | 875 | 2,243 | 1,566 | 2,612 | 4,053 | 1,932 |
| Canada | 17,357 | 46,413 | 2,594 | 19,213 | 72,951 | 55,423 | 36,570 | 119,364 | 58,017 |

CHEMICALS AND ALLIED PRODUCTS

TABLE 9. Total Sales¹ in Canada of Fertilizer Materials and Mixed Fertilizers for the Years Ended June 30, 1943-1952

| Year ended June 30 | Fertilizer materials | Mixed fertilizers | Total sold in Canada |
|--------------------|------------------------|-------------------|----------------------|
| | (Tons of 2,000 pounds) | | |
| 1943..... | 72,162 | 417,699 | 489,861 |
| 1944..... | 79,233 | 455,875 | 535,108 |
| 1945..... | 92,026 | 483,081 | 575,107 |
| 1946..... | 102,639 | 543,406 | 646,045 |
| 1947..... | 95,870 | 564,851 | 660,721 |
| 1948..... | 107,299 | 564,872 | 672,171 |
| 1949..... | 129,968 | 611,758 | 741,726 |
| 1950..... | 145,972 | 618,609 | 764,581 |
| 1951..... | 153,933 | 616,574 | 770,507 |
| 1952..... | 156,049 | 612,496 | 768,545 |

1. Except for manufacturing purposes.

TABLE 10. Nitrogen, Phosphoric Acid and Potash Contained in Fertilizers Sold During the Years Ended June 30, 1943-1952

| Year ended June 30 | In materials | | | In mixtures | | | Total | | |
|--------------------|---------------------|-------------------------------|------------------|-------------|-------------------------------|------------------|--------|-------------------------------|------------------|
| | N | P ₂ O ₅ | K ₂ O | N | P ₂ O ₅ | K ₂ O | N | P ₂ O ₅ | K ₂ O |
| | (Short tons) | | | | | | | | |
| 1943..... | 3,459 | 13,998 | 3,112 | 11,282 | 45,079 | 32,977 | 14,741 | 59,077 | 36,089 |
| 1944..... | 5,422 | 15,286 | 2,933 | 13,638 | 48,850 | 28,020 | 19,060 | 64,136 | 30,952 |
| 1945..... | 7,633 | 25,387 | 3,087 | 14,327 | 51,309 | 39,578 | 21,960 | 76,696 | 42,665 |
| 1946..... | 7,834 | 21,424 | 2,241 | 16,519 | 57,171 | 43,224 | 24,353 | 78,595 | 45,465 |
| 1947..... | 8,923 | 26,231 | 2,216 | 16,821 | 59,021 | 44,913 | 25,744 | 85,252 | 47,129 |
| 1948..... | 10,693 | 30,149 | 2,738 | 17,153 | 59,388 | 47,342 | 27,848 | 89,537 | 50,080 |
| 1949..... | 12,001 | 37,789 | 2,749 | 18,340 | 67,221 | 52,312 | 30,341 | 105,010 | 55,061 |
| 1950..... | 14,533 | 47,151 | 1,924 | 18,820 | 70,840 | 54,063 | 33,353 | 117,991 | 55,987 |
| 1951..... | 16,167 | 48,745 | 2,181 | 18,328 | 73,142 | 53,949 | 34,495 | 121,887 | 56,130 |
| 1952..... | 17,357 ^a | 46,413 | 2,594 | 19,213 | 72,951 | 55,423 | 36,570 | 119,364 | 58,017 |

TABLE 11. Production, Imports and Exports of Ammonium Sulphate, 1942-1951

| Year | Production | Imports | Exports |
|-----------|------------|---------|---------|
| | (Tons) | | |
| 1942..... | 116,796 | 5,045 | 79,236 |
| 1943..... | 196,404 | 39 | 141,080 |
| 1944..... | 209,578 | 104 | 167,496 |
| 1945..... | 221,499 | 105 | 181,189 |
| 1946..... | 197,103 | 63 | 155,446 |
| 1947..... | 196,825 | 124 | 158,975 |
| 1948..... | 215,109 | 130 | 146,379 |
| 1949..... | 225,949 | 140 | 167,147 |
| 1950..... | 211,534 | 103 | 209,106 |
| 1951..... | 209,159 | 314 | 145,724 |

TABLE 12. Imports and Exports of Fertilizers, 1950 and 1951

| Item | 1950 | | 1951 | |
|--|----------|--------------|----------|--------------|
| | Quantity | Value | Quantity | Value |
| | | \$ | | \$ |
| Imports | | | | |
| Ammonia, sulphate of, | 103 | 7, 255 | 314 | 18, 906 |
| Blast furnace slag, basic slag ¹ | 34, 608 | 74, 214 | 40, 475 | 178, 357 |
| Kainite or German potash salts and German mineral potash | 2, 288 | 33, 580 | 1, 730 | 26, 209 |
| Potash, muriate of, | 98, 509 | 2, 852, 182 | 103, 768 | 2, 862, 172 |
| Potash, sulphate of, | 8, 058 | 318, 519 | 11, 213 | 438, 919 |
| Nitrate of soda or cubic nitre | 19, 585 | 984, 433 | 26, 446 | 1, 277, 168 |
| Fertilizers, superphosphate or acid phosphate of lime | 182, 822 | 3, 137, 956 | 187, 912 | 3, 387, 272 |
| Fertilizers, compounded or manufactured, n.o.p. | 4, 586 | 182, 445 | 12, 380 | 562, 521 |
| Fertilizers, unmanufactured, n.o.p. | 21, 779 | 1, 201, 855 | 26, 924 | 1, 483, 314 |
| Exports | | | | |
| Ammonium sulphate | 209, 106 | 8, 972, 503 | 145, 724 | 6, 456, 603 |
| Nitrogen fertilizer | 379, 216 | 21, 333, 521 | 298, 223 | 18, 223, 504 |
| Phosphate (fertilizer) | 121, 211 | 7, 021, 457 | 142, 549 | 9, 181, 672 |
| Fertilizers, manufactured, n.o.p. | 32, 061 | 1, 546, 353 | 36, 138 | 1, 871, 948 |

Note. In each case, the period covered in the above table refers to the "calendar" year.

1. Includes slag imported for use in the manufacture of mineral wool.

TABLE 13. Employees and Their Earnings, by Provinces, 1950 and 1951

| Province | Number of employees | | | | | Earnings | | |
|------------------------|------------------------|------------|--------------------|-----------|---------------|------------------------|--------------------|---------------------|
| | Supervisory and office | | Production workers | | Total | Supervisory and office | Production workers | Total |
| | Male | Female | Male | Female | | | | |
| | | | | | | \$ | \$ | \$ |
| 1950 | | | | | | | | |
| New Brunswick | 17 | 6 | 92 | — | 115 | 58, 974 | 243, 578 | 302, 552 |
| Quebec | 144 | 81 | 204 | 1 | 430 | 742, 244 | 469, 938 | 1, 212, 182 |
| Ontario | 245 | 64 | 609 | 3 | 921 | 949, 232 | 1, 633, 854 | 2, 583, 086 |
| British Columbia | 220 | 28 | 1, 053 | 10 | 1, 309 | 887, 691 | 3, 119, 710 | 4, 007, 401 |
| Other provinces | 86 | 21 | 361 | 10 | 478 | 366, 914 | 950, 436 | 1, 317, 350 |
| Canada | 712 | 190 | 2, 319 | 24 | 3, 253 | 3, 005, 055 | 6, 417, 516 | 9, 422, 571 |
| 1951 | | | | | | | | |
| New Brunswick | 15 | 8 | 90 | — | 111 | 70, 527 | 214, 023 | 284, 550 |
| Quebec | 150 | 79 | 216 | — | 445 | 816, 780 | 508, 728 | 1, 325, 508 |
| Ontario | 183 | 82 | 672 | 8 | 923 | 803, 725 | 1, 854, 081 | 2, 657, 806 |
| British Columbia | 244 | 21 | 1, 005 | 10 | 1, 280 | 1, 126, 730 | 3, 456, 515 | 4, 583, 245 |
| Other provinces | 86 | 20 | 345 | 8 | 459 | 415, 062 | 1, 043, 898 | 1, 458, 960 |
| Canada | 678 | 188 | 2, 328 | 24 | 3, 218 | 3, 232, 824 | 7, 077, 245 | 10, 310, 069 |



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List of Firms in the Fertilizers Industry, 1951

| Name of firm | Location of plant |
|--|--------------------------------------|
| Prince Edward Island: | |
| The Island Fertilizer Co. Ltd. | Charlottetown |
| Canada Packers Limited | Summerside |
| Nova Scotia: | |
| Canadian Industries Limited (Fertilizer Division) | Pier 9, Halifax |
| Canada Packers Limited | Port Williams |
| Colonial Fertilizer Co. Ltd. | Nesbit St., Windsor |
| New Brunswick: | |
| Canada Packers Limited (Fertilizer Division) | Bayside Drive, East Saint John |
| International Fertilizers Limited | East Saint John |
| Summers Fertilizer Co. Inc. | Prince William St., St. Stephen |
| Quebec: | |
| Agricultural Chemicals Ltd. | Chambly Canton |
| Canada Packers Limited | 6000 St. Patrick St., Montreal |
| Canada Packers Limited | Ste Foy |
| Canadian Industries Limited (Fertilizer Division) | 1490 Marlborough St., Montreal |
| Canadian Industries Limited (Fertilizer Division) | McMasterville |
| Houde, William, Limited | La Prairie |
| International Fertilizers Limited | Wolfe's Cove, Quebec |
| Ontario: | |
| Agricultural Chemicals Ltd. | Marsh St., Port Hope |
| Biohumus "B" | Bradford |
| Canada Packers Limited | Chatham |
| Canada Packers Limited | 2200 St. Clair Ave. W., Toronto |
| Canada Packers Limited | Welland |
| Canadian Industries Limited (Fertilizer Division) | King St. E., Chatham |
| Canadian Industries Limited (Fertilizer Division) | Burlington & Ottawa Sts., Hamilton |
| Hy-Trous Co. of Canada Ltd. | 121 Pitt St., Cornwall |
| Misner Seeds & Fertilizer | Port Dover |
| "Na-Churs" Plant Food Co. (Canada) Ltd. | 2 Langarth St. W., London |
| North American Cyanamid Limited, Welland Works | Garner Rd., Niagara Falls |
| Nutrex Fertilizer & Chemical Co. Ltd. | 365 Thames St., London |
| Read Brothers Fertilizers, Limited | Union St., Elmira |
| Stone, William, Sons Ltd. | Ingersoll |
| Swift Canadian Co. Limited | 1400 The Queensway, Etobicoke |
| United Co-Operatives of Ontario | 4004 Dundas St. W., Toronto |
| Witts Fertilizer Works Ltd. | Norwich |
| Alberta: | |
| Consolidated Mining and Smelting Co. of Canada Limited | Calgary |
| British Columbia: | |
| B. C. Organic Fertilizer Ltd. | 102 Huth Ave., Penticton |
| Buckerfield's Limited | Columbia St., New Westminster |
| Consolidated Mining and Smelting Co. of Canada Limited | Trail |
| Globe Fertilizer Co. Ltd. | Foot Crompton Road, Vancouver |
| Green Valley Fertilizer & Chemical Co. Ltd. | 16th St. & 5th Ave., New Westminster |
| Vitalerth Products Limited | 1741 West 4th Ave., Vancouver |