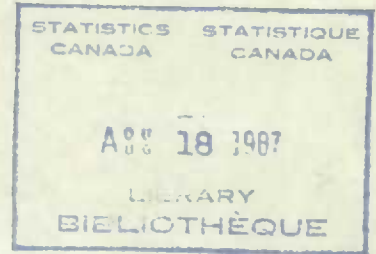


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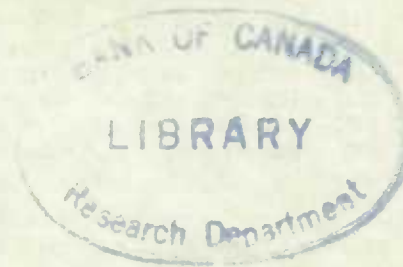
ANNUAL

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THE FERTILIZERS INDUSTRY

1957



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NOTICE

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

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

- I — General Review of the Manufacturing Industries, \$1.50
- II — The Manufacturing Industries of Canada, (7 sections, as follows:)
 - Section A. Summary for Canada, 25¢
 - Section B. Atlantic Provinces, 50¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 40¢
 - Section F. British Columbia, 25¢
 - Section G. The Manufacturing Industries of Canada, Regional Distribution, 75¢
- III — Foods and Beverages
- IV — Tobacco and Tobacco Products
- V — Rubber Products
- VI — Leather Products
- VII — Textile Mills
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- IX — Clothing
- X — Wood and Paper Products
- XI — Printing Trades
- XII — Iron and Steel Products
- XIII — Transportation Equipment
- XIV — Non-ferrous Metal Products
- XV — Electrical Apparatus and Supplies
- XVI — Non-metallic Mineral Products
- XVII — Products of Petroleum and Coal
- XVIII — Chemicals and Allied Products
- XIX — Miscellaneous Manufactures

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

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

THE FERTILIZERS INDUSTRY

1957

Factory shipments by plants in Canada which were engaged principally in the manufacture of fertilizers were valued at \$83,807,556 in 1957 compared with \$83,399,218 in 1956. In addition, there was a production of 204,780 tons of cyanamid (excluding cyanamid for non-agricultural purposes) ammonium sulphate, mixed fertilizers and fish fertilizers valued at \$6,774,479 by establishments which were classified to other industrial groups.

Forty-four plants were occupied chiefly in the manufacture of fertilizers in 1957, there being 23 in Ontario, 7 in Quebec, 4 in British Columbia, 3 in Nova Scotia, 3 in New Brunswick, 2 in Prince Edward Island and 2 in Alberta. Workers in these establishments increased from 2,958 in 1956 to 3,011 in 1957 and salaries and wages increased from \$11,757,117 in 1956 to \$12,899,267 in 1957.

Factory shipments of mixed fertilizers in 1957, from all industries amounted to 723,100 tons worth \$37,026,000 and included 716,387 tons at \$36,573,644 made by plants in the fertilizer manufacturing industry and 6,669 tons at \$451,814 made in the meat-packing and oils and fats industries. In 1956 the corresponding totals were 703,200 tons at \$34,408,000.

Superphosphate was manufactured in 1957 by Canadian Industries Limited with plants at McMasterville, Quebec and Hamilton, Ontario; Green Valley Fertilizer and Chemical Co. Ltd. at New Westminster, British Columbia and Elmira Fertilizers Limited at Elmira, Ontario.

Ammonium Nitrate (fertilizer grade) was manufactured in 1957 by North American Cyanamid (Welland Works) at Niagara Falls in Ontario, by Consolidated Mining and Smelting Company of Canada, Limited at Trail, British Columbia and at Calgary, Alberta, and by Northwest Nitro-Chemicals Ltd. at Medicine Hat, Alberta. The output figures are not published separately since there were only two major producers of ammonium nitrate and one major producer of superphosphate.

Ammonium sulphate was made by Consolidated Mining and Smelting Company of Canada, Limited at Trail, British Columbia and also by the following coke manufacturers: Algoma Steel Corporation at Sault Ste. Marie, Ontario; Dominion Iron and Steel Ltd. at Sydney, N.S.; Montreal Coke and Manufacturing Company (Quebec Natural Gas Corporation) at Montreal, Quebec and The Steel Company of Canada, Limited at Hamilton, Ontario. Another firm Sherritt-Gordon Mines Limited at Fort Saskatchewan, Alberta, recovered ammonium sulphate as a by-product in connection with a special process used for refining nickel. Factory shipments during the calendar year 1957 amounted to 318,634 tons and imports totalled 3,288 tons. Ammonium phosphate was made by the Consolidated Mining and Smelting Company of Canada, Limited at Trail, British Columbia and Kimberley, British Columbia and by Northwest Nitro-Chemicals Ltd. at Medicine Hat, Alberta.

A special survey of the fertilizer trade in Canada during the fertilizer year ended June, 1958 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 11-15 of this bulletin. A total of 870,539 tons of mixtures and materials was sold in Canada during the year ended June 30, 1958 compared with 808,251 tons during the preceding twelve-month period.

Note: Due to lack of inventory data, figures for value added by manufacture prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouse.

TABLE 1. Principal Statistics of the Fertilizers Industry, Significant Years 1929-57, and by Provinces, 1956 and 1957

Year and province	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity at works	Cost at plant of materials used	Value added by manufacture ¹	Gross selling value of products ¹
	number				dollars		
1929	12	251	265,650	17,386	1,450,253	791,141	2,258,780
1933	20	667	776,647	322,849	2,796,726	1,166,476	4,286,051
1937	20	1,023	1,447,625	506,965	6,693,841	3,066,147	10,266,953
1939	27	1,211	1,819,612	706,003	8,140,498	4,318,663	13,165,164
1945	26	2,146	4,418,916	1,116,081	18,708,175	14,681,500	34,505,756
1946	29	2,805	5,929,796	3,232,099	22,865,328	23,895,016	49,992,443
1949	32	3,269	9,004,943	1,772,400	31,671,468	33,984,199	67,428,067
1953	40	3,199	11,511,643	1,948,620	39,310,484	43,095,265	84,354,369
1954	38	3,049	11,603,480	2,992,340	41,275,216	39,654,741	78,149,303
1955	39	2,935	11,542,380	2,641,870	41,396,928	45,895,045	92,498,839
1956							
Prince Edward Island.....	2	97	247,308	20,842	2,649,203	755,740	3,563,079
Nova Scotia	3						
New Brunswick	3	125	402,338	68,774	3,023,879	786,954	4,042,169
Quebec	7	294	1,074,008	71,845	4,958,736	2,795,809	7,674,370
Ontario	23	822	3,088,080	919,516	17,888,675	9,524,225	27,700,432
Alberta	2	1,620	6,945,383	1,619,420	14,774,850	23,481,115	40,419,168
British Columbia.....	5						
Canada	45	2,958	11,757,117	2,700,397	43,295,343	37,343,843	83,399,218
1957							
Prince Edward Island.....	2	95	262,162	23,189	2,731,353	1,017,934	3,559,420
Nova Scotia	3						
New Brunswick	3	122	389,650	74,566	2,978,133	931,614	3,862,744
Quebec	7	381	1,602,192	79,479	5,900,799	3,315,774	8,902,655
Ontario	23	775	3,219,699	1,035,549	17,931,914	11,103,112	30,579,248
Alberta	2	1,658	7,425,564	1,938,554	17,592,251	19,090,966	36,903,489
British Columbia.....	4						
Canada	44	3,011	12,899,267	3,151,337	47,134,450	35,459,400	83,807,556

¹ See footnote to Text.

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

TABLE 2. Inventories¹, 1957

Province	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Prince Edward Island and Nova Scotia	507,975	262,665	437,911	1,208,551
New Brunswick	521,045	607,862	337,446	1,466,353
Quebec	1,017,274	1,205,730	1,289,033	3,512,037
Ontario	1,992,793	4,657,263	1,750,301	8,400,357
Alberta and British Columbia	4,880,201	949,272	3,758,777	9,588,250
Canada	8,919,288	7,682,792	7,573,468	24,175,548
Closing:				
Prince Edward Island and Nova Scotia	434,685	304,491	609,141	1,348,317
New Brunswick	581,272	635,216	431,661	1,648,149
Quebec	1,234,852	1,291,753	1,596,407	4,123,012
Ontario	2,511,501	4,200,046	1,698,845	8,410,392
Alberta and British Columbia	5,077,360	922,092	5,504,239	11,503,691
Canada	9,839,670	7,353,598	9,840,293	27,033,561

¹ (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Fertilizers Industry for the year under review are shown in the above table.

(c) The opening inventory for the current year may not necessarily agree with the closing inventory published the previous year because of changes in the composition of the industry, such as: the addition of new establishments, the disappearance of old ones, or the transfer of establishments to other industries for statistical purposes. The figure for value added by manufacture for the previous year does not need to be altered because of such changes in the composition of the industry.

TABLE 3. Products of the Fertilizers Industry, Calendar Years, 1956 and 1957

Product	1956		1957	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
	tons	\$	tons	\$
Mixed fertilizers	697,336	34,042,219	716,387	36,573,644
Superphosphate, ammonium nitrate (fertilizer grade), ammonium phosphate and ammonium sulphate (completely manufactured) ¹	919,692	42,653,684	930,124	42,375,066
Superphosphate, milled and screened only	16,541	601,785	11,467	447,748
Ammonium sulphate, milled and screened only	265	13,892	363	21,464
Muriate of potash, milled and screened only	2,535	141,253	2,946	158,604
All other products	—	5,946,385	—	4,231,032
Total for fertilizers industry	—	83,399,218	—	83,807,556
Fertilizers made in other industries (cyanamid, ammonium sulphate, mixtures, etc.)	—	7,168,742	—	6,774,479
Total value of all fertilizers produced²	—	90,567,960	—	90,582,035

¹ Production of these items was accounted for mainly by only one or two firms in this industry, hence the production figures cannot be shown separately.

² Excludes value of calcium cyanamid produced for non-agricultural purposes.

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, 1956 and 1957

Material	1956		1957	
	Quantity	Cost at works	Quantity	Cost at works
	short tons	\$	short tons	\$
Ammonia, anhydrous	87,738	3,764,892	94,666	3,926,371
Ammonium nitrate	3,476	261,874	3,245	239,063
Ammonium phosphate:				
11-48-0	5,890	567,713	5,715	534,915
16-20-0	750	48,989	871	56,639
Ammonium sulphate (sulphate of ammonia)	36,283	1,543,053	33,763	1,338,369
Borax	288	22,942	187	16,305
Calcium cyanamide (cyanamid)	1,093	70,535	701	45,947
Coke (except for fuel)	48,534	882,889	32,388	842,588
Diatomaceous earth	8,648	427,684	6,068	314,425
Limestone	20,570	82,090	17,224	70,747
Lime or land plaster	1,208	9,808	676	10,731
Magnesium oxide (all forms, including brucite, mag 70, etc.)	1,468	57,815	1,591	62,986
Magnesium sulphate	43	3,391	49	3,834
Nitrogen solutions	40,724	2,417,156	41,624	2,573,223
Phosphate rock	417,910	5,737,023	584,216	7,742,349
Potassium chloride (muriate of potash)	125,454	4,618,963	124,115	4,586,773
Potassium nitrate (nitrate of potash)	25	4,394	51	8,725
Potassium sulphate (sulphate of potash)	13,265	650,259	13,906	679,254
Potassium magnesium sulphate (sulphate of potash magnesia)	1,810	56,975	1,845	56,128
Sand	41,893	105,974	43,708	114,729
Sodium nitrate (nitrate of soda)	270	18,169	254	16,506
Sulphuric acid, 100%	558,632	3,149,123	668,929	4,385,909
Superphosphate:				
16-18% P ₂ O ₅	41,076	932,611	32,297	716,135
20% P ₂ O ₅	258,939	6,430,075	257,579	6,348,746
38-48% P ₂ O ₅	41,316	2,129,510	40,055	2,365,024
Ammoniated -3-18-0	3,648	101,459	3,008	132,251
Urea	925	69,723	679	58,653
All other materials	—	3,564,304	—	4,409,120
Containers and shipping materials	—	5,565,950	—	5,476,005
Total	—	43,295,343	—	47,134,450

TABLE 5. Total Production¹ of Mixed Fertilizers, from All Industrial Groups, Calendar Years, 1948-1957

Year	Quantity	Selling value at works	Year	Quantity	Selling value at works
	tons	\$		tons	\$
1948	650,200	22,738,000	1953	694,600	32,751,000
1949	661,100	24,794,000	1954	668,200	32,120,000
1950	669,900	26,519,000	1955	685,700	33,112,000
1951	696,600	29,193,000	1956	703,200	34,408,000
1952	648,800	30,364,000	1957	723,100	37,026,000

¹ Factory shipments since 1952.

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

TABLE 6. Principal Statistics of the Fertilizers Industry in Canada, Classified According to Type of Ownership, 1956 and 1957

Type	Estab-lish-ments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number			dollars	
1956					
Individual	2	2,958	11,757,117	43,295,343	83,399,218
Co-operatives	3				
Incorporated companies	40				
Total	45	2,958	11,757,117	43,295,343	83,399,218
1957					
Individual	2	3,011	12,899,267	47,134,450	83,807,556
Co-operatives	3				
Incorporated companies	39				
Total	44	3,011	12,899,267	47,134,450	83,807,556

TABLE 7. Principal Statistics of the Fertilizers Industry in Canada, Grouped According to Selling Value of Factory Shipments, 1956 and 1957

Establishments having a production of	Estab-lish-ments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number			dollars	
1956					
Under \$25,000	3	21	35,573	164,320	235,230
\$50,000 to \$99,999	2				
\$100,000 to \$199,999	5				
\$200,000 to \$499,999	4	40	108,474	884,583	1,189,665
\$500,000 to \$999,999	16	333	1,034,087	8,664,121	11,884,435
\$1,000,000 to \$4,999,999	10	533	1,839,715	13,689,065	18,929,958
\$5,000,000 and over	5	1,788	7,947,407	19,291,249	50,467,369
Head offices	—	57	275,000	—	—
Total	45	2,958	11,757,117	43,295,343	83,399,218
1957					
Under \$10,000	1	35	70,571	351,662	501,194
\$25,000 to \$49,000	1				
\$100,000 to \$199,999	3				
\$200,000 to \$499,999	6	61	173,930	1,193,261	1,741,925
\$500,000 to \$999,999	16	306	1,032,634	8,284,273	11,752,299
\$1,000,000 to \$4,999,999	13	952	3,888,407	20,585,474	28,497,953
\$5,000,000 and over	4	1,547	7,055,305	16,719,780	41,314,185
Head offices	—	110	678,420	—	—
Total	44	3,011	12,899,267	47,134,450	83,807,556

TABLE 8. Capital and Repair Expenditures in the Fertilizers Industry, 1953-1957

Year	Capital expenditures			Repair and maintenance expenditures			Total capital and repair expenditures
	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Sub-total	
thousands of dollars							
1953.....	1,914	3,718	5,632	319	2,545	2,864	8,496
1954.....	484	1,201	1,685	294	3,266	3,550	5,235
1955.....	3,512	1,594	5,106	260	3,183	3,443	8,549
1956.....	11,847	4,942	16,789	359	3,047	3,406	20,195
1957.....	622	1,043	1,665	324	4,001	4,325	5,990

Note: Figures for the current year are preliminary.

TABLE 9. Employees and their Earnings, by Provinces, 1956 and 1957

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
dollars								
1956								
New Brunswick	19	6	99	1	125	90,279	312,059	402,338
Quebec	81	33	180	—	294	551,861	522,147	1,074,006
Ontario.....	173	60	586	3	822	939,504	2,148,576	3,088,080
British Columbia	250	25	900	4	1,179	1,481,711	3,735,523	5,217,234
Other provinces	151	32	351	4	538	679,094	1,296,363	1,975,457
Canada	674	156	2,116	12	2,958	3,742,449	8,014,668	11,757,117
1957								
New Brunswick	18	6	97	1	122	84,263	305,387	389,650
Quebec	110	59	192	—	361	937,291	664,901	1,602,192
Ontario	182	48	538	7	775	1,043,337	2,176,362	3,219,699
British Columbia	245	17	839	3	1,104	1,441,668	3,525,583	4,967,251
Other provinces	158	29	460	2	649	908,785	1,811,690	2,720,475
Canada	713	159	2,126	13	3,011	4,415,344	8,483,923	12,899,267

TABLE 10. Production Workers, by Months, 1956 and 1957

Month	1956			1957		
	Male	Female	Total	Male	Female	Total
number						
January	2,093	13	2,106	2,107	11	2,118
February	2,113	13	2,126	2,228	13	2,241
March	2,141	13	2,154	2,177	15	2,192
April	2,395	13	2,408	2,472	14	2,486
May	2,536	13	2,549	2,597	13	2,610
June	1,946	13	1,959	2,066	13	2,079
July	1,779	10	1,789	1,987	14	2,001
August.....	1,846	10	1,856	2,004	14	2,018
September	2,067	11	2,078	2,019	12	2,031
October	2,174	11	2,185	1,999	12	2,011
November	2,209	11	2,220	1,984	11	1,995
December	2,110	11	2,121	1,870	11	1,881
Average.....	2,116	12	2,128	2,126	13	2,139

TABLE 11. Sales of Fertilizers, Except for Manufacturing Purposes, During the Year Ended June 30, 1958

Kind	New-found-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Total sold in Canada
short tons											
Fertilizer materials											
Anhydrous ammonia	—	—	—	—	—	1,439	148	52	314	25	1,978
Nitrate of soda	273	1	17	4	68	389	—	—	—	5	757
Sulphate of ammonia	10	33	87	23	234	1,794	79	77	2,196	1,774	6,307
Cyanamide	—	1	47	2	63	2,036	—	—	—	172	2,371
Ammonium nitrate	88	252	821	228	724	21,709	423	1,028	5,410	2,992	33,675
Ammonium phosphate — 11-48-0 ..	—	—	—	—	32	3,417	9,485	16,787	25,454	1,168	56,343
16-20-0 ..	—	—	—	—	—	146	4,146	2,428	11,685	2,903	21,308
Superphosphate — 20% P ₂ O ₅	36	119	797	339	7,725	18,272	—	—	14	1,272	28,574
45% P ₂ O ₅	—	—	—	—	332	1,204	—	1	—	160	1,697
Natural phosphate rock	—	—	—	—	2,995	71	—	—	—	10	3,076
Basic slag	—	—	—	—	789	—	—	—	—	—	789
Bone meal, bone flour, etc.	—	—	61	12	101	528	29	3	58	697	1,489
Muriate of potash — 50% K ₂ O	—	—	1	11	2	5	2	—	—	—	21
60% K ₂ O	3	14	66	9	368	5,637	8	2	38	438	6,583
Sulphate of potash	—	—	2	—	23	378	1	3	5	185	597
Tankage	—	—	—	—	42	26	—	—	—	267	335
Animal manure	—	12	86	35	670	848	—	—	—	122	1,773
Dried blood	—	—	—	—	1	18	1	—	—	134	154
Sewage sludge	—	—	29	1	109	4,824	—	1	—	499	5,463
Other fertilizer materials ¹	1	3	229	235	207	2,899	1,156	973	2,470	510	8,683
Total materials	411	435	2,243	899	14,485	65,690	15,478	21,355	47,644	13,333	181,973
Mixed fertilizers	4,523	52,995	25,603	61,519	140,300	385,626	811	81	308	16,800	688,566
Total — 1957-1958	4,934	53,430	27,846	62,418	154,785	451,316	16,289	21,436	47,952	30,133	870,539
Total — 1956-1957	4,783	53,299	26,358	61,015	141,974	415,986	15,664	20,785	38,337	30,050	808,251

¹ Lime has not been included.

TABLE 12. Mixed Fertilizers Sold During the Year Ended June 30, 1958

Analysis	New-found-land	Prince Edward Island	Nova Scotia	New-Brunswick	Quebec	Ontario	Prairies	British Columbia	Total domestic sales	Exported from Canada	Total sold
tons (2,000 pounds)											
N P₂O₅ K₂O											
0 5 15	—	—	—	—	908	766	—	—	1,674	4	1,678
0 12 12	—	—	—	—	—	116	—	—	116	—	116
0 12 20	—	—	—	—	218	4,084	—	—	4,302	—	4,302
0 12 24	—	—	—	—	—	1,542	—	—	1,542	—	1,542
0 14 14	—	—	—	—	723	1,154	—	—	1,877	5	1,882
0 15 15	—	11	—	—	—	101	—	272	384	—	384
0 15 30	—	—	—	—	5	—	—	—	5	502	507
0 16 8	—	—	—	—	3,410	119	—	—	3,529	—	3,529
0 20 10	—	—	—	—	—	1,976	—	—	1,976	—	1,976
0 20 20	10	51	1,014	177	1,281	7,673	—	—	10,206	722	10,928
2 8 16	—	—	—	—	2,531	70	—	—	2,601	—	2,601
2 10 15	—	—	—	—	10	3,589	—	—	3,599	—	3,599
2 12 10	—	—	—	—	34,710	99,589	—	—	134,299	—	134,299
2 12 16	—	—	—	—	—	8,812	—	—	8,812	—	8,812
2 12 14	—	—	—	—	90	8,572	—	—	8,662	—	8,662
2 12 20	—	—	—	—	—	7,801	—	—	7,801	—	7,801
2 14 8	—	—	—	—	3,597	769	—	—	4,366	—	4,366
2 14 14	—	—	—	—	—	2,194	—	—	2,194	—	2,194
2 15 15	—	—	—	—	—	—	—	1,269	1,269	—	1,269
2 16 6	—	—	—	—	18,720	5,793	—	—	24,513	—	24,513
2 18 0	—	—	—	—	—	—	—	—	—	117	117
2 18 18	—	—	—	—	91	8,090	—	—	8,181	—	8,181
2 20 18	—	—	—	—	—	174	—	—	174	—	174
2 20 20	—	—	—	—	—	259	—	—	259	—	259
3 12 12	—	—	—	—	1,225	4,216	—	—	5,441	—	5,441

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

TABLE 12. Mixed Fertilizers Sold During the Year Ended June 30, 1958 - Concluded

Analysis			New-found-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Prairies	British Columbia	Total domestic sales	Exported from Canada	Total sold
tons (2,000 pounds)													
N	P ₂ O ₅	K ₂ O											
3	12	16	—	—	—	—	—	969	—	—	969	—	969
3	15	6	677	4,828	8,522	6,168	17	—	—	—	20,212	14	20,226
3	15	10	—	—	—	—	—	8,264	—	—	8,264	—	8,264
3	16	16	—	—	151	—	—	—	—	—	151	—	151
3	18	9	—	—	—	—	1	17,085	—	—	17,086	—	17,086
3	18	15	—	—	—	—	827	4,321	—	—	5,148	—	5,148
4	10	7	—	—	—	—	—	—	—	106	106	—	106
4	10	10	—	—	—	—	—	509	—	3,783	4,292	—	4,292
4	12	6	—	—	—	46	335	123	—	—	504	13	517
4	12	8	—	—	—	—	—	163	—	—	163	—	163
4	12	10	—	—	—	—	5	22,523	—	—	22,528	—	22,528
4	12	16	—	—	—	—	185	2,521	—	—	2,706	—	2,706
4	16	18	—	—	—	—	—	1,558	—	—	1,558	—	1,558
4	24	12	—	—	—	—	992	23,372	—	—	24,364	—	24,364
4	24	20	—	—	—	—	4,121	33,949	—	—	38,070	—	38,070
4	40	0	—	—	—	—	—	103	—	—	103	—	103
5	5	0	—	—	—	—	—	225	—	—	225	—	225
5	8	10	—	—	—	—	2,314	5	—	—	2,319	—	2,319
5	10	5	—	—	—	—	—	1	—	—	2	295	297
5	10	10	2,348	963	1,728	17,537	17,185	1,042	—	—	40,803	2,401	43,204
5	10	13	135	28,872	1,563	4,300	38,725	17,791	—	—	91,386	10	91,396
5	10	15	—	—	—	—	106	16,511	41	—	16,658	—	16,658
5	10	20	—	—	—	—	135	—	—	—	135	—	135
5	10	30	—	—	—	—	—	369	—	—	369	—	369
5	20	0	—	—	—	—	—	447	—	—	447	—	447
5	20	5	—	—	—	—	—	108	—	—	108	—	108
5	20	10	—	—	—	—	126	5,360	—	—	5,486	8	5,494
5	20	20	—	—	—	—	—	2,844	—	—	2,844	6	2,850
6	8	6	—	—	—	—	—	—	—	3,766	3,766	—	3,766
6	9	6	8	—	35	10	592	661	—	—	1,306	—	1,306
6	9	9	—	—	—	1,333	114	—	—	—	1,447	292	1,739
6	9	12	9	83	—	5,727	—	—	—	—	5,819	3,284	9,103
6	10	4	—	—	—	—	1,076	2,862	403	49	4,390	66	4,456
6	10	10	—	—	—	100	—	—	—	389	489	—	489
6	10	20	—	—	—	—	—	—	—	100	100	—	100
6	12	8	553	137	1,978	1,151	3	8	—	—	3,830	193	4,023
6	12	8	—	91	41	7,200	5	—	—	—	7,337	60	7,397
6	12	12	771	17,863	9,510	16,975	2,119	5,554	—	—	52,792	25	52,817
6	24	24	—	—	—	—	—	—	—	151	151	—	151
6	27	25	—	—	—	—	—	—	—	105	105	—	105
6	30	15	—	—	—	—	—	—	—	1,401	1,401	—	1,401
7	7	7	—	—	—	32	343	3,514	—	—	3,889	3	3,892
8	9	10	—	—	—	270	—	—	—	—	270	1,701	1,971
8	10	5	—	—	—	—	—	—	—	1,408	1,408	—	1,408
8	12	12	—	—	—	104	—	—	—	—	104	9,871	9,975
8	12	16	—	—	—	—	—	—	—	—	—	1,335	1,335
8	16	16	—	—	—	—	651	79	—	—	730	3,599	4,329
8	24	20	—	—	—	—	—	939	—	—	939	—	939
8	32	0	—	—	—	—	—	144	—	—	144	—	144
8	32	16	—	—	—	—	—	—	—	—	—	3,578	3,578
9	5	7	2	—	—	105	1,070	79	—	—	1,256	—	1,256
9	5	10	—	—	164	—	—	—	—	—	164	—	164
9	9	7	5	22	818	43	—	—	—	—	886	2	888
10	5	10	—	—	—	—	44	931	—	—	975	7	982
10	6	4	5	5	12	69	508	1,315	15	71	2,000	67	2,067
10	10	10	—	59	1	—	1,084	33,557	—	2	34,703	8,960	43,663
10	15	15	—	—	—	—	—	50	—	—	50	1,094	1,144
10	20	10	—	—	—	—	—	483	—	1,942	2,425	23	2,448
10	20	20	—	—	—	—	—	300	—	—	300	6	306
10	24	12	—	—	—	—	—	672	—	—	672	—	672
10	30	10	—	—	—	—	—	—	—	181	161	965	1,126
10	32	10	—	—	—	—	—	—	675	95	770	2,351	3,121
10	52	17	—	—	3	—	21	204	—	—	228	—	228
12	12	12	—	—	—	—	—	712	—	—	712	848	1,560
13	16	10	—	—	—	—	—	—	—	1,151	1,151	—	1,151
14	7	10	—	—	—	—	—	—	—	148	148	—	148
20	0	0	—	—	—	—	—	159	—	—	159	—	159
Other mixes			—	10	65	172	76	5,782	66	430	6,601	279	6,880
Total, 1958			4,523	52,995	25,603	61,519	140,300	385,626	1,200	16,800	688,566	42,706	731,272
Total, 1957			4,410	52,867	24,450	60,280	127,546	364,502	1,003	16,696	651,754	49,728	701,482

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

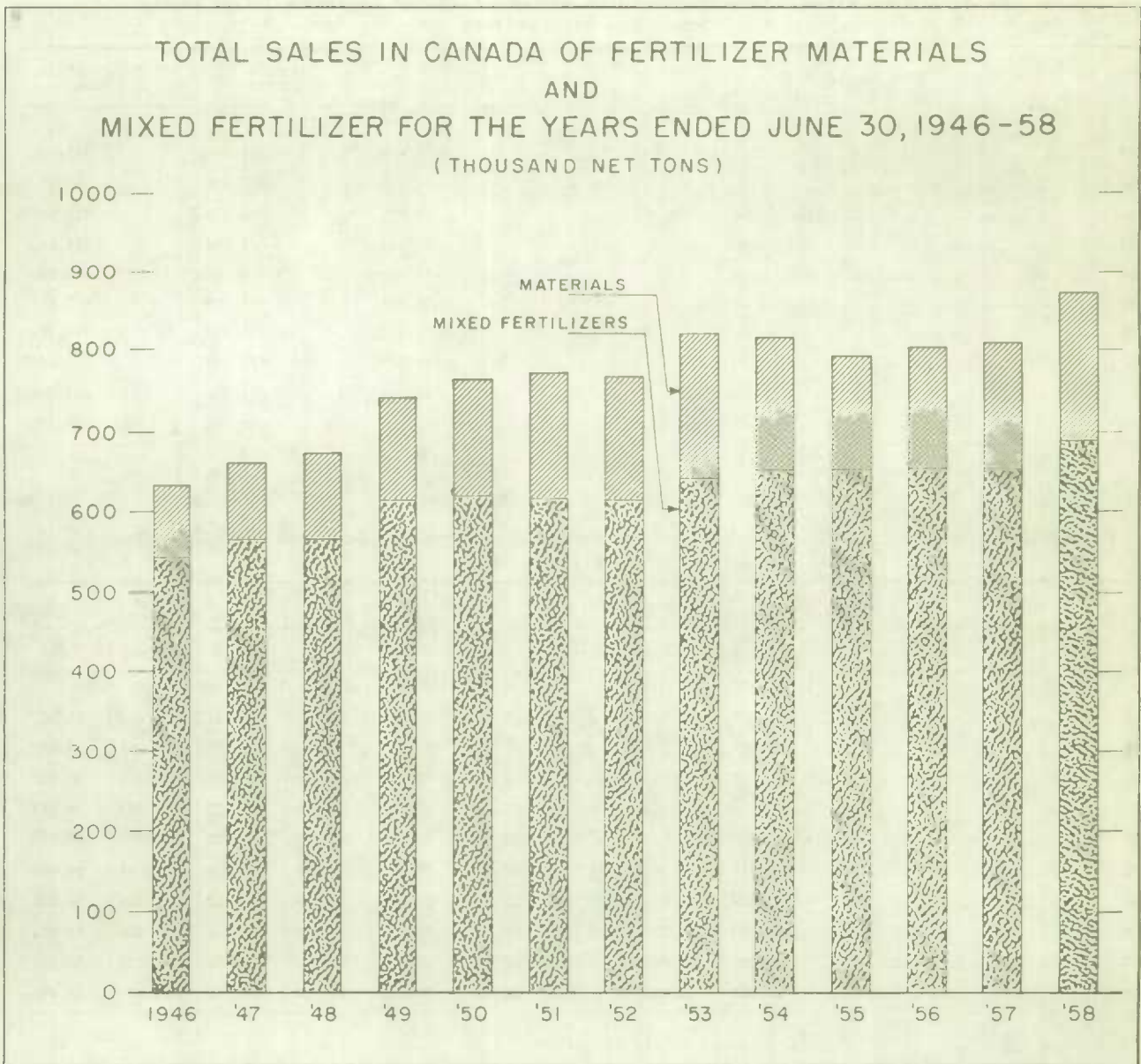


TABLE 13. Nitrogen, Phosphoric Acid and Potash Contained in Fertilizers Sold in Canada During the Year Ended June 30, 1958

Province	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	75	7	2	227	514	421	302	521	423
Prince Edward Island	90	24	8	2,736	5,906	6,329	2,826	5,930	6,337
Nova Scotia	341	175	41	1,214	3,311	2,468	1,555	3,486	2,509
New Brunswick	82	71	11	3,296	6,905	6,296	3,378	6,976	6,307
Quebec	360	2,960	237	4,989	16,558	15,101	5,349	19,518	15,338
Ontario	10,832	6,020	3,600	14,733	51,448	48,052	25,565	57,468	51,652
Manitoba	2,293	5,507	6	65	174	62	2,358	5,681	68
Saskatchewan	2,893	8,645	2	6	14	5	2,899	8,659	7
Alberta	7,810	14,837	23	31	81	27	7,841	14,918	50
British Columbia	2,171	1,699	352	1,096	2,314	1,632	3,267	4,013	1,984
Total Canada	26,947	39,945	4,282	28,393	87,225	80,393	55,340	127,170	84,675

TABLE 14. Total Sales¹ in Canada of Fertilizer Materials and Mixed Fertilizers, for the Years Ended June 30, 1949-1958

Year ended June 30	Fertilizer materials	Mixed fertilizers	Total sold in Canada
	tons (2,000 pounds)		
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
1953	179,600	640,203	819,803
1954	160,481	651,160	811,641
1955	139,301	651,473	790,774
1956	148,037	652,643	800,680
1957	156,497	651,754	808,251
1958	181,973	688,566	870,539

¹ Except for manufacturing purposes.

TABLE 15. Nitrogen, Phosphoric Acid and Potash Contained in Fertilizers Sold During the Years Ended June 30, 1949-1958

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								
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	46,413	2,594	19,213	72,951	55,423	36,570	119,364	58,017
1953	20,956	52,829	2,838	22,933	79,873	64,749	43,889	132,702	67,587
1954	18,213	42,108	3,327	23,812	80,239	66,641	42,025	122,347	69,968
1955	17,422	32,672	3,120	25,410	82,032	71,219	42,832	114,704	74,339
1956	19,687	33,229	3,472	25,324	84,702	73,472	45,011	117,931	76,944
1957	23,062	35,384	3,290	26,611	85,806	75,084	49,673	121,190	78,374
1958	26,947	39,945	4,282	28,393	87,225	80,393	55,340	127,170	84,675

TABLE 16. Production¹, Imports and Exports of Ammonium Sulphate, 1948-1957

Year	Production	Imports	Exports
	tons		
1948	215,109	130	146,379
1949	225,949	140	167,147
1950	211,534	103	209,106
1951	209,159	314	145,724
1952	226,664	845	199,681
1953	186,540	21,254	147,371
1954	174,967	14,101	154,760
1955	311,371	7,029	N.A.
1956	339,510	3,144	N.A.
1957	318,634	3,288	N.A.

¹ Factory shipments since 1952.

TABLE 17. Imports and Exports of Fertilizers, 1956 and 1957

Item	1956		1957		
	Quantity	Value \$	Quantity	Value \$	
Imports					
Ammonia, sulphate of	ton	3,144	142,789	3,283	129,827
Potash, muriate of	"	131,293	3,238,761	136,641	3,406,175
Potash, sulphate of	"	16,152	584,123	17,721	610,337
Nitrate of soda or cubic nitre	"	27,529	1,207,988	25,598	1,085,471
Nitrogen solution	"	33,222	1,971,028	33,142	1,872,852
Nitrogen fertilizer, n.o.p.	"	227	12,660	32	1,155
Triple superphosphate	"	38,487	1,741,268	45,380	2,004,031
Superphosphate, n.o.p.	"	183,991	3,420,818	163,746	3,131,318
Phosphate fertilizer, n.o.p.	"	1,764	138,684	2,830	205,471
Sulphate of potash magnesia	"	2,338	37,163	3,456	67,023
Potash fertilizers, n.o.p.	"	20	2,275	—	—
Mixed fertilizers	"	2,598	374,564	9,366	755,446
Fertilizer materials, n.o.p.	"	6,237	356,727	6,509	343,677
Exports					
Ammonium sulphate	"	—	12,072,905	—	9,300,315
Nitrogen fertilizer	"	—	16,866,967	—	18,114,493
Phosphate (fertilizer)	"	—	15,508,176	—	12,994,804
Fertilizers, manufactured, n.o.p.	"	73,421	4,689,759	128,012	8,468,514
Fertilizer materials, n.o.p.	"	4,667	72,792	3,444	80,226

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

TABLE 18. Fuel and Electricity Used in the Fertilizers Industry, 1956 and 1957

Kind	1956		1957		
	Quantity	Cost at works \$	Quantity	Cost at works \$	
Bituminous Coal — Canadian	ton	4,945	47,219	6,578	58,733
— Imported	"	43,532	401,446	50,120	501,804
Anthracite coal	"	49	1,019	71	1,437
Coke (for fuel only)	"	92	1,736	119	2,437
Gasoline (including gasoline used in cars and trucks) ..	Imp. gal.	284,193	92,924	230,231	74,334
Fuel oil	"	611,240	80,994	624,015	91,777
Gas — Liquified petroleum gases	"	90	29	300	142
— Other manufactured	M cu. ft.	420	330	370	299
— Natural	"	30,620	6,128	1,441,590	193,186
Other fuel	—	—	12,488	—	4,829
Electricity purchased ¹	kwh.	1,166,783,065	2,056,084	1,170,510,202	2,232,359
Total	—	—	2,700,397	—	3,151,337

¹ The bulk of the electricity shown here was generated by one of the reporting companies but was generated by off-plant equipment and therefore, for statistical purposes, this has been treated as purchased electricity.

List of Firms in the Fertilizers Industry, 1957

Name of firm	Location of plant
Prince Edward Island:	
Island Fertilizer Inc.	Charlottetown
Canada Packers Limited	Summerside
Nova Scotia:	
Canadian Industries Limited	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 Fertilizers 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	1490 Marlborough St., Montreal
Canadian Industries Limited	McMasterville
Houde, William, Limited	La Prairie
International Fertilizers Limited	Wolfe's Cove, Quebec
Ontario:	
Agricultural Chemicals Ltd.	Marsh St., Port Hope
Agricultural Chemicals Ltd.	London
Biorganic Fertilizers Ltd.	R.R. 1, Kingsville
Bradford Fertilizer & Chemical Co.	Bradford
Canada Packers Limited	Chatham
Canada Packers Limited	2200 St. Clair Ave. W., Toronto
Canada Packers Limited	Welland
Canadian Industries Limited	King St. E., Chatham
Canadian Industries Limited	Burlington St. E., Hamilton
Canadian Industries Limited	Norwich
Elmira Fertilizers Ltd.	Union St., Elmira
Hy-Trous Co. of Canada Ltd.	Box 1296, Cornwall
Manchester Products	Galt
Misner Fertilizer Limited	Port Dover
"Na-Churs" Plant Food Co. (Canada) Ltd.	2 Langarth St. W., London
North American Cyanamid Limited, Welland Works	Garner Rd., Niagara Falls
Ontario Plant Foods Ltd.	Delhi
Rainbow Chemicals Ltd.	Tilbury
Stone, William, Sons Ltd.	Ingersoll
Swift Canadian Co. Limited	1400 The Queensway, Etobicoke
United Co-operatives of Ontario	4004 Dundas St. W., Toronto
United Co-operatives of Ontario	Stratford
United Co-operatives of Ontario	Thamesville
Alberta:	
Consolidated Mining and Smelting Co. of Canada Limited	Calgary
North-West Nitro Chemicals Ltd.	Medicine Hat
British Columbia:	
Consolidated Mining and Smelting Co. of Canada Limited	Kimberly
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



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