

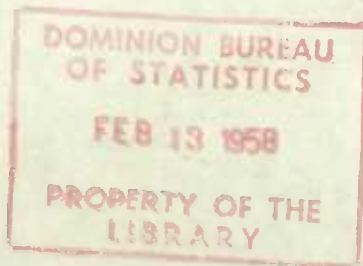
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CANADA

THE FERTILIZERS INDUSTRY

1956



Published by Authority of
The Honourable Gordon Churchill, Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
Industry and Merchandising Division
Metal and Chemical Products Section

6512-607-126

Price 25 cents

Vol. 2—Part XVIII—C-1

105-24

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 1956

Factory shipments by factories in Canada which were engaged principally in the manufacture of fertilizers were valued at \$83,399,218 in 1956 compared with \$92,498,839 in 1955. In addition, there was a production of 185,985 tons of cyanamid (excluding cyanamid for non-agricultural purposes) ammonium sulphate, mixed fertilizers and fish fertilizers valued at \$7,168,742 by establishments which were classified to other industrial groups.

Forty-five plants were occupied chiefly in the manufacture of fertilizers in 1956, there being 23 in Ontario, 7 in Quebec, 5 in British Columbia, 3 in New Brunswick, 3 in Nova Scotia, 2 in Prince Edward Island and 2 in Alberta. Workers in these establishments increased from 2,935 in 1955 to 2,958 in 1956 and salaries and wages increased from \$11,542,380 in 1955 to \$11,757,117 in 1956.

Factory shipments of mixed fertilizers in 1956, from all industries, amounted to 703,200 tons worth \$34,408,000 and included 697,336 tons at \$34,042,219 made by plants in the fertilizer manufacturing industry and 5,864 tons at \$366,000 made in the meat packing and oils and fats industries. In 1955 the corresponding totals were 685,696 tons at \$33,111,970 and in 1954 they were 668,200 tons at \$32,120,000.

Superphosphate was manufactured in 1956 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 1956 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 the 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, Nova Scotia; Montreal Coke and Manufacturing Company at Montreal, Quebec and the Steel Company of Canada, Limited at Hamilton, Ontario. Another firm Sheritt-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 1956 amounted to 339,510 tons and imports totalled 3,144 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, 1957 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 808,251 tons of mixtures and materials was sold in Canada during the year ended June 30, 1957 compared with 800,680 tons during the preceding twelve-month period.

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

TABLE 1. Principal Statistics of the Fertilizers Industry, Significant Years 1929-56, and by Provinces, 1955 and 1956

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
	No.	No.	\$	\$	\$	\$	\$
1929.....	12	251	255,650	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	1,447,525	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	31,371,468	33,984,199	67,423,067
1952.....	39	3,205	11,325,300	1,887,038	38,450,277	38,405,176	78,743,491
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							
Prince Edward Island.....	2	97	253,011	20,310	2,566,351	865,299	3,548,260
Nova Scotia.....	3						
New Brunswick.....	3	114	390,724	52,243	3,049,236	927,041	3,919,357
Quebec.....	7	321	1,136,293	59,239	4,375,241	2,153,531	6,904,861
Ontario.....	18	816	2,998,922	825,835	17,352,453	11,315,410	29,745,056
Alberta.....	1	1,587	6,763,430	1,684,238	14,053,647	30,633,764	48,391,305
British Columbia.....	5						
Canada.....	39	2,935	11,542,380	2,641,870	41,396,928	43,895,045	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	6,945,363	1,619,420	14,774,850	23,491,115	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

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, 1956

Province	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Prince Edward Island and Nova Scotia.....	384,610	418,477	293,615	1,096,702
New Brunswick.....	441,599	723,550	384,320	1,549,469
Quebec.....	1,195,461	1,339,789	1,021,236	3,556,486
Ontario.....	1,894,749	4,650,248	1,062,487	7,607,484
Alberta and British Columbia.....	4,951,930	247,674	5,206,857	10,406,451
Canada.....	8,868,349	7,379,738	7,968,515	24,216,602
Closing:				
Prince Edward Island and Nova Scotia.....	445,983	262,665	312,133	1,020,781
New Brunswick.....	521,045	607,862	337,446	1,466,353
Quebec.....	1,017,274	1,205,730	1,307,315	3,530,319
Ontario.....	1,927,478	4,657,263	1,687,456	8,272,197
Alberta and British Columbia.....	4,880,572	1,150,653	3,760,095	9,791,320
Canada.....	8,792,352	7,884,173	7,404,443	24,080,970

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, 1955 and 1956

Product	1955		1956	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
	Tons	\$	Tons	\$
Mixed fertilizers	680,931	32,773,476	697,336	34,042,219
Superphosphate, ammonium nitrate (fertilizer grade), ammonium phosphate and ammonium sulphate (completely manufactured)	1,028,844	55,461,633	919,892	42,653,684
Superphosphate, milled and screened only:				
16%-18% P ₂ O ₅	1,327	47,048	16,541	601,785
20% P ₂ O ₅	11,996	429,014		
Ammonium sulphate, milled and screened only	639	40,807	265	13,892
Muriate of potash, milled and screened only:				
50% K ₂ O	1,067	81,001	2,535	141,253
60% K ₂ O	2,157	120,108		
All other products	-	3,565,752	-	5,946,385
Total for fertilizers industry	-	92,498,839	-	83,399,218
Fertilizers made in other industries (cyanamid, ammonium sulphate, mixtures, etc. ..	-	8,755,646	-	7,163,742
Total value of all fertilizers produced²	-	101,254,485	-	90,567,960

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, 1955 and 1956

Material	1955		1956	
	Quantity	Cost at works	Quantity	Cost at works
	Short tons	\$	Short tons	\$
Ammonia, anhydrous	83,600	3,387,398	87,738	3,764,892
Ammonium nitrate	3,156	261,285	3,476	261,874
Ammonium phosphate:				
11-48-0	4,246	431,491	5,880	567,713
16-20-0	762	56,156	750	48,989
Ammonium sulphate (sulphate of ammonia)	38,988	1,791,112	36,283	1,543,053
Bone meal and bone flour	66	5,164	1	1
Borax	242	20,085	288	22,942
Calcium cyanamide (cyanamid)	1,275	83,368	1,093	70,535
Coke (except for fuel)	81,908	1,437,183	48,534	882,889
Diatomaceous earth	9,166	429,149	8,648	427,684
Dried blood and blood meal	76	7,298	1	1
Limestone	22,284	100,174	20,570	82,090
Line or land plaster	70	1,726	1,208	9,808
Magnesium oxide (all forms, including brucite, mag 70, etc.)	1,497	62,614	1,468	57,815
Magnesium sulphate	30	2,297	43	3,391
Nitrogen solutions	36,160	2,521,849	40,724	2,417,156
Phosphate rock	465,129	6,336,505	417,910	5,737,023
Potassium chloride (muriate of potash):				
50% K ₂ O	1,846	68,413	1,961	74,735
60% K ₂ O	118,809	4,219,410	123,493	4,544,228
Potassium nitrate (nitrate of potash)	38	6,077	25	4,394
Potassium sulphate (sulphate of potash)	12,127	584,350	13,265	650,259
Potassium magnesium sulphate (sulphate of potash magnesia)	1,919	57,841	1,810	56,975
Sand	35,614	85,317	41,893	105,974
Sodium nitrate (nitrate of soda)	159	9,438	270	13,169
Sulphuric acid, 100%	577,063	3,335,142	558,632	3,149,123
Superphosphate:				
16-18% P ₂ O ₅	29,148	633,006	41,076	932,611
20% P ₂ O ₅	284,031	6,921,746	258,939	6,430,075
38-48% P ₂ O ₅	33,236	1,983,500	41,316	2,129,510
Ammoniated -3-18-0	549	20,185	3,648	101,459
Tankage	279	12,718	1	1
Urea	272	35,511	925	69,723
All other materials	-	1,727,612	-	3,564,304
Containers and shipping materials	-	4,761,308	-	5,565,950
Total	-	41,396,928	-	43,295,343

1. Not separately specified in 1956.

TABLE 5. Total Production¹ of Mixed Fertilizers, from All Industrial Groups, Calendar Years, 1947-1956

Year	Quantity	Selling value at works	Year	Quantity	Selling value at works
	Tons	\$		Tons	\$
1947	673,800	21,998,000	1952	648,800	30,364,000
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	695,800	29,193,000	1956	703,200	34,408,000

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, 1955 and 1956

Type	Estab-lish-ments	Employees	Salaries and Wages	Cost at plant of materials Used	Selling value of factory shipments
	No.	No.	\$	\$	\$
1955					
Individual	1	2,935	11,542,380	41,396,928	92,498,839
Co-operatives	37				
Incorporated companies	1				
Total	39	2,935	11,542,380	41,396,928	92,498,839
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

TABLE 7. Principal Statistics of the Fertilizers Industry in Canada, Grouped According to Selling Value of Factory Shipments 1955 and 1956

Establishments having a production of	Estab-lish-ments	Employees	Salaries and Wages	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$
1955					
Under \$25,000	1	35	86,669	294,563	478,285
\$50,000 to \$99,999	1				
\$100,000 to \$199,999	3				
\$200,000 to \$499,999	6	79	231,657	1,510,261	2,338,956
\$500,000 to \$999,999	13	291	904,308	6,781,414	9,596,124
\$1,000,000 to \$4,999,999	10	537	1,813,819	13,803,916	19,187,912
\$5,000,000 and over	5	1,935	8,190,649	18,906,774	60,897,562
Head offices	—	58	315,278	—	—
Total	39	2,935	11,542,380	41,396,928	92,498,839
1956					
Under \$25,000	3	21	35,573	164,320	235,230
\$25,000 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

TABLE 8. Capital and Repair Expenditures in the Fertilizers Industry, 1952-1956

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
	\$'000						
1952	2,477	4,891	7,368	370	3,011	3,381	10,749
1953	1,914	3,718	5,632	319	2,545	2,864	8,496
1954	484	1,201	1,685	284	3,266	3,550	5,235
1955	3,512	1,594	5,106	260	3,183	3,443	8,549
1956 ¹	10,608	4,669	15,277	279	3,051	3,330	18,607

1. Preliminary.

TABLE 9. Employees and Their Earnings, by Provinces, 1955 and 1956

Province	Number of employees				Total	Earnings		
	Supervisory and office		Production workers			Supervisory and office	Production workers	Total
	Male	Female	Male	Female		\$	\$	\$
1955								
New Brunswick	15	6	93	--	114	91,281	299,443	390,724
Quebec	93	28	200	--	321	618,252	518,041	1,136,293
Ontario	159	74	583	--	816	930,415	2,068,507	2,998,922
British Columbia	289	27	963	3	1,282	1,551,601	3,907,304	5,458,905
Other provinces	81	20	296	5	402	450,907	1,106,629	1,557,536
Canada	637	155	2,135	8	2,935	3,642,456	7,899,924	11,542,380
1956								
New Brunswick	19	6	99	1	125	90,279	312,059	402,338
Quebec	81	33	180	--	294	551,861	522,147	1,074,008
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

TABLE 10. Production Workers, by Months, 1955 and 1956

Month	1955			1956		
	Male	Female	Total	Male	Female	Total
	Number					
January	2,198	8	2,206	2,093	13	2,106
February	2,176	8	2,184	2,113	13	2,126
March	2,182	8	2,190	2,141	13	2,154
April	2,335	8	2,343	2,395	13	2,408
May	2,507	8	2,515	2,536	13	2,549
June	2,065	8	2,073	1,946	13	1,959
July	1,955	8	1,963	1,779	10	1,789
August	2,065	8	2,073	1,846	10	1,856
September	2,092	8	2,100	2,067	11	2,078
October	2,027	8	2,035	2,174	11	2,185
November	2,002	8	2,010	2,209	11	2,220
December	2,010	8	2,018	2,110	11	2,121
Average	2,135	8	2,143	2,116	12	2,128

TABLE 12. Mixed Fertilizers Sold During the Year Ended June 30, 1957 - Concluded

Analysis	New-found-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba, Saskatchewan and Alberta	British Columbia	Total sold in Canada	Exported from Canada
Short tons										
N P ₂ O ₅ K ₂ O										
4 10 7	-	-	-	-	-	-	-	144	144	-
4 10 8	9	-	20	6	12	61	-	-	108	-
4 10 10	-	-	-	-	-	-	-	4,137	4,137	-
4 12 6	11	-	-	50	1,400	744	25	-	2,230	2
4 12 10	-	-	-	-	-	24,110	-	-	24,110	-
4 12 16	-	-	-	-	25	891	-	-	916	-
4 16 16	-	-	-	-	-	970	-	-	970	-
4 24 12	-	-	-	-	503	22,984	2	-	23,489	-
4 24 20	-	-	-	-	1,490	28,431	-	-	29,921	-
5 8 10	-	-	-	-	2,164	5	-	-	2,169	5
5 10 5	-	-	-	-	-	-	-	10	10	100
5 10 10	2,230	1,701	1,900	17,562	15,458	537	-	-	39,388	2,765
5 10 13	127	32,142	2,018	4,624	36,718	33,274	16	-	111,119	3
5 10 15	-	-	-	-	10	4,027	-	-	4,037	-
5 20 10	-	-	-	-	84	615	-	-	699	-
5 20 20	-	-	-	-	-	1,414	-	-	1,414	-
6 8 6	-	-	-	-	-	5	-	-	3,261	-
6 9 6	2	2	10	2	190	152	-	3,256	3,261	-
6 9 9	-	-	-	1,273	-	-	-	-	1,273	363
6 9 12	-	111	15	5,063	3	-	-	-	5,192	3,278
6 10 10	-	-	-	-	-	-	-	287	287	-
6 12 6	477	62	1,829	1,003	4	-	-	-	3,375	283
6 12 8	3	98	18	6,801	-	-	-	-	6,918	-
6 12 12	688	13,746	7,268	16,519	1,586	3,968	-	-	43,775	27
6 15 6	-	15	85	5	-	-	-	-	105	-
6 18 6	-	-	-	-	-	239	-	-	239	-
6 18 15	-	-	-	-	-	281	-	-	281	-
6 24 24	-	-	-	-	-	-	-	-	-	5,370
6 27 25	-	-	-	-	-	-	-	280	280	-
6 30 15	-	-	-	-	-	-	-	1,684	1,684	-
6 36 0	-	-	-	-	-	192	-	-	192	-
7 6 7	-	-	-	-	-	127	-	-	127	-
7 7 7	-	-	-	-	-	216	1,586	-	1,802	63
8 9 10	-	-	-	-	-	-	-	-	-	2,053
8 10 5	-	-	-	-	-	-	-	1,628	1,628	-
8 10 10	-	-	-	-	-	-	-	-	-	110
8 12 12	-	-	-	257	-	-	-	-	257	8,963
8 12 16	-	-	-	42	16	-	-	-	58	2,321
8 16 16	-	-	-	12	277	39	-	-	328	2,753
8 24 20	-	-	-	-	-	1,109	-	-	1,109	-
8 32 16	-	-	-	-	-	-	-	-	-	1,701
9 5 7	-	2	-	118	1,378	71	-	-	1,569	-
9 9 7	4	35	856	43	-	36	-	-	974	4
9 9 9	-	-	-	-	-	546	-	-	546	-
10 5 10	-	-	-	-	19	862	-	-	681	-
10 6 4	1	2	6	84	383	939	10	50	1,475	75
10 10 10	52	30	1	50	724	29,359	-	-	30,216	5,715
10 15 15	-	-	-	-	-	-	-	-	-	1,051
10 20 10	-	-	-	-	-	301	-	2,419	2,720	19
10 24 12	-	-	-	-	-	864	-	-	864	-
10 32 10	-	-	-	-	-	-	588	185	773	4,869
10 52 17	-	-	2	-	15	140	-	2	159	-
12 12 12	-	-	-	-	-	22	-	-	22	6,540
13 16 10	-	-	-	-	-	-	-	610	610	-
14 7 10	-	-	-	-	-	-	-	179	179	-
Miscellaneous other mixtures	-	41	407	27	1,102	3,180	362	311	5,430	320
Total	4,410	52,867	24,450	60,280	127,546	364,502	1,003	16,696	651,754	49,728

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

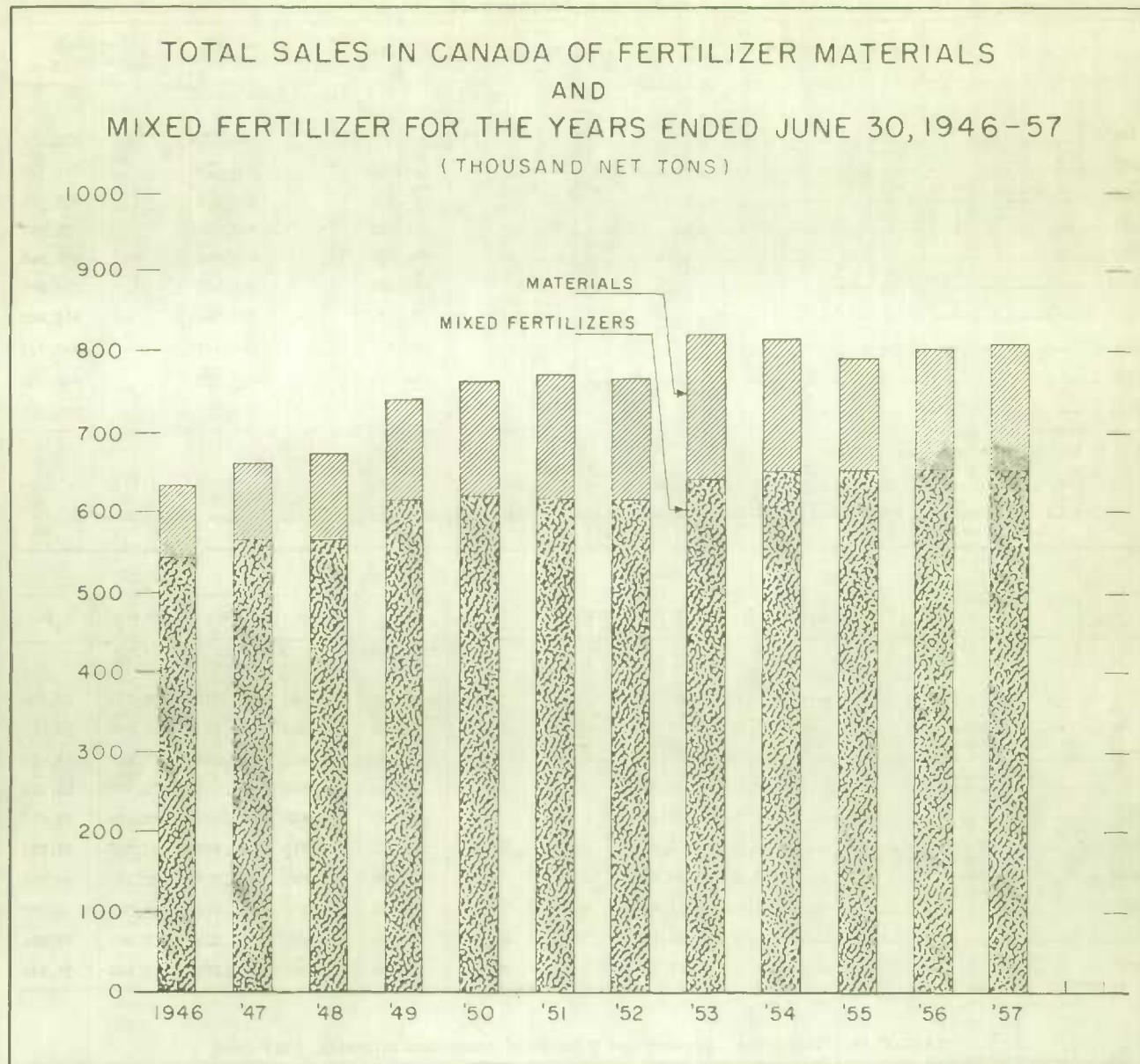


TABLE 13. Nitrogen, Phosphoric Acid and Potash Contained in Fertilizers Sold in Canada During the Year Ended June 30, 1957

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	66	7	2	219	504	407	285	511	409
Prince Edward Island	77	36	10	2,689	5,812	6,337	2,766	5,848	6,347
Nova Scotia	310	173	34	1,145	3,128	2,217	1,455	3,301	2,251
New Brunswick	68	111	10	3,204	6,787	6,178	3,272	6,898	6,188
Quebec	355	3,006	214	4,555	15,084	13,477	4,910	18,090	13,691
Ontario	8,716	4,328	2,522	13,661	51,959	44,757	22,377	56,287	47,279
Manitoba	2,121	5,452	3	61	167	57	2,182	5,619	60
Saskatchewan	3,031	8,165	2	7	20	6	3,038	8,185	8
Alberta	6,251	12,357	18	16	40	15	6,267	12,397	33
British Columbia	2,067	1,749	475	1,054	2,305	1,633	3,121	4,054	2,108
Total Canada	23,062	35,384	3,290	26,611	85,806	75,084	49,673	121,190	78,374

TABLE 14. Total Sales¹ in Canada of Fertilizer Materials and Mixed Fertilizers, for the Years Ended June 30, 1948-1957

Year ended June 30	Fertilizer materials	Mixed fertilizers	Total sold in Canada
	Tons of 2,000 pounds		
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	159,049	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

1. Except for manufacturing purposes.

TABLE 15. Nitrogen, Phosphoric Acid and Potash Contained in Fertilizers Sold During the Years Ended June 30, 1948-1957

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								
1948	10,693	30,149	2,738	17,153	59,388	47,342	27,846	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	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

TABLE 16. Production¹, Imports and Exports of Ammonium Sulphate, 1947-1956

Year	Production	Imports	Exports
	Tons		
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
1952	226,664	845	199,661
1953	166,540	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.

1. Factory shipments since 1952.

TABLE 17. Imports and Exports of Fertilizers, 1955 and 1956

Item	1955		1956	
	Quantity	Value	Quantity	Value
		\$		\$
Imports				
Ammonia, sulphate of	7,029 tons	311,212	3,144	142,789
Potash, muriate of	138,492 "	3,230,564	131,293	3,238,761
Potash, sulphate of	13,957 "	458,683	16,152	584,123
Nitrate of soda or cubic nitre	21,426 "	927,976	27,529	1,207,988
Nitrogen solution	36,233 "	2,178,081	33,222	1,971,028
Nitrogen fertilizer, n.o.p.	374 "	19,856	227	12,660
Triple superphosphate	35,324 "	1,606,817	38,487	1,741,268
Superphosphate, n.o.p.	175,944 "	3,263,012	183,991	3,420,818
Phosphate fertilizer, n.o.p.	2,654 "	159,603	1,764	138,684
Sulphate of potash magnesia	1,986 "	28,255	2,338	37,163
Potash fertilizers, n.o.p.	—	—	20	2,275
Mixed fertilizers	1,541 "	310,681	2,598	374,564
Fertilizer materials, n.o.p.	5,868 "	200,520	6,237	356,727
Exports				
Ammonium sulphate	— tons	10,978,475	—	12,072,905
Nitrogen fertilizer	— "	25,354,694	—	16,866,967
Phosphate (fertilizer)	— "	17,408,564	—	15,508,176
Fertilizers, manufactured, n.o.p.	43,594 "	2,408,222	73,421	4,689,759
Fertilizer materials, n.o.p.	6,116 "	146,209	4,667	72,792

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, 1956¹

Kind	Unit of measure	Quantity	Cost at works
			\$
Bituminous coal — Canadian	tons	4,945	47,219
— Imported	"	43,532	401,446
Anthracite coal	"	49	1,019
Coke (for fuel only)	"	92	1,736
Gasoline (including gasoline used in cars and trucks)	imp. gals.	284,193	92,924
Fuel oil	"	611,240	80,994
Gas — Liquefied petroleum gases	"	90	29
— Other manufactured	1,000 cu. ft.	420	330
— Natural	"	30,620	6,128
Other fuel	—	—	12,488
Electricity purchased ²	k.w.h.	1,166,783,065	2,056,084
Total	—	—	2,700,397

1. Last collected in 1953.

2. 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, 1956

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
Biorganic Fertilizers Ltd.	Maidstone
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	Windsor
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
Nutrex Fertilizer & Chemical Co. Ltd.	430 Talbot St., London
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
Vitalerth Products Limited	284-3rd Rd., Richmond



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