

46-207

Historical File Copy

1931/32 C.1

CANADA—DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
MINING, METALLURGICAL AND CHEMICAL BRANCH



# THE FERTILIZER TRADE IN CANADA

July 1, 1931—June 30, 1932

*Reprinted from the Monthly Bulletin of Agricultural Statistics,  
June, 1933*

Published by Authority of the Hon. H. H. Stevens, M.P.  
Minister of Trade and Commerce



OTTAWA  
J. O. PATENAUDE, ACTING KING'S PRINTER  
1933

# THE FERTILIZER TRADE IN CANADA

—



## THE FERTILIZER TRADE IN CANADA, JULY 1, 1931—JUNE 30, 1932

By W. H. Losee, B.Sc., Chief of the Mining, Metallurgical and Chemical Branch.

The use of various fertilizers by Canadian agriculturists is becoming widespread and in normal times reaches considerable proportions. Consumption in the Maritime Provinces, Quebec, Ontario and British Columbia has been general for some time and during the year under review the Prairie Provinces have shown a considerable increase over previous years. This is due to the recognition of the fact that the ingredients necessary to healthy growth, which have been taken from the soil by repetition of similar crops, must be replaced by artificial means and to the fact that the soils in certain districts of the Prairie Provinces are less rich in phosphoric acid than in nitrogen and potash and it has been found that a small dressing of a phosphatic fertilizer stimulates early growth and advances the date of ripening.

In order that the trend in sales of various fertilizers may be properly gauged by the manufacturers and importers, the Mining, Metallurgical and Chemical Branch of the Bureau, in co-operation with the Fertilizer Division of the Department of Agriculture have, during the past few years, made an annual survey of the production, consumption and distribution by provinces of the various kinds of fertilizers used.

In making the survey every care was taken to avoid duplication. Each firm manufacturing fertilizer materials was asked to omit the amounts sold to companies which were using these materials in the manufacture of mixed fertilizers.

**Production, Imports and Exports.**—According to the records received, 29 plants were engaged in making mixed fertilizers in Canada and 31 manufactured fertilizer materials; 14 firms made both. Reports were received from 30 companies which operated as dealers only. Importers totalled 34 and exporters 13. Production of mixed fertilizers and fertilizer materials totalled 256,633 short tons, of which 108,123 or 42 per cent was mixed fertilizers. Output of fertilizer materials consisted of ammonium sulphate, 42,600 tons; calcium cyanamide, 39,209 tons; superphosphate, 51,432 tons; tankage, 1,257 tons; ammonium phosphate, 12,203 tons; the remainder being dried blood, fish meal and bone meal and flour.

Imports amounted to 235,985 tons, the largest item being 108,791 tons of phosphate rock. Superphosphate at 60,938 tons was next and other important imports were: Muriate of potash, 18,958 tons; sulphate of ammonia, 12,526 tons (principally in the Maritimes); basic slag, 10,557 tons; sulphate of potash, 9,424 tons; nitrate of soda, 4,150 tons; muriate of potash, 2,586 tons. Tankage, ammonium phosphate, cyanamide, sheep manure, calcium nitrate, nitrochalk, bone meal and flour, and fish meal were also imported in substantial quantities.

Exports totalled 85,459 tons, of which 34,750 tons were cyanamide of calcium, 28,175 tons ammonium sulphate and 20,467 tons mixed fertilizer. The principal remaining exports were superphosphate of lime, muriate of potash, tankage, dried blood, fish meal and ammonium phosphate.

**Sales.**—Sales of fertilizers during the year ending June 30, totalled 265,442 tons as against 362,848 tons during the preceding twelve months. Of this total 85,459 tons were exported and 179,983 tons were sold in Canada. The Canadian sales consisted of 87,119 tons of mixed fertilizer and 92,864 tons of fertilizer materials. Superphosphate comprised over 51 per cent of the total sales of fertilizer materials in Canada. Sulphate of ammonia marketed amounted to

10,747 tons, basic slag totalled 11,611 tons, muriate of potash, 7,552 tons, nitrate of soda, 3,815 tons, and ammonium phosphate, 3,534 tons. Cyanamide, nitrochalk, calcium nitrate, phosphate rock, bone meal and flour, sulphate of potash, tankage, sheep manure, dried blood, whale products and fish meal and milorganite were also marketed.

Superphosphate was distributed among the various provinces as follows: Prince Edward Island, 18 per cent; Nova Scotia, 8 per cent; New Brunswick, 15 per cent; Quebec, 31 per cent; Ontario, 20 per cent; Prairie Provinces, 4 per cent, and British Columbia, 3 per cent. Nova Scotia led all provinces in the purchase of ammonium sulphate; Prince Edward Island, New Brunswick and Quebec took slightly more than 1,800 tons each. Sales in Ontario and British Columbia were practically the same at 1,200 tons and a very small amount was distributed in the Prairie Provinces. Nova Scotia and Ontario were the only provinces purchasing cyanamide, and basic slag was distributed mostly in the Maritimes and Quebec. Muriate of potash was sold in all provinces, Prince Edward Island and New Brunswick purchasing the largest amounts. British Columbia and Ontario took the greater part of the tankage sold and sheep manure was marketed principally in Ontario. Dried blood was sold principally in Ontario and British Columbia; whale products and fish meal were marketed almost entirely in the Pacific coast province. More ammonium phosphate was sold in the Prairie Provinces than in any other part of Canada, in fact the records show more of this material sold to the Prairies than any other fertilizer, no doubt on account of its concentrated fertilizing properties.

Although the sales of mixed fertilizers in Canada decreased to 87,119 tons from 146,404 tons in the previous year, increases were noted in certain items, more particularly the 4-6-10 and the 4-8-10 mixtures, the latter being used largely in Quebec. Sales of 3-10-6, all of which were in Ontario, more than doubled; 5-9-8 sales were about the same as in the previous year, New Brunswick being the principal consumer. Sales of 9-5-7 totalled 927 tons as against 768 tons in the previous year all of which was sold in Nova Scotia, principally for fertilizing orchards.

A study of the compilation shows that the most popular mixture in Ontario was one containing 3 per cent nitrogen, 8 per cent phosphoric acid and 4 per cent potash, though 2-8-4; 2-12-6; 3-10-5 and 4-8-6 were also greatly in demand. A 4-8-10 mixture was the one mostly used in Quebec. The Maritimes used principally 2-10-2; 4-8-4; 4-8-7; 4-8-13; and 5-10-5. The Prairie Provinces purchased very little mixed fertilizer. In British Columbia the favourite mixtures were 3-10-8 and 4-10-10, although 4-8-12, 6-10-10 and a few other mixtures were marketed in smaller quantities.

---

## THE USE OF FERTILIZERS IN CANADA

Submitted by the Dominion Chemist, Division of Chemistry, Experimental Farms, Ottawa.

Considering the decline in market values of farm products during the last few years, the interest taken in the employment of commercial fertilizers to increase crop yields, as evinced by enquiries and correspondence, has been fairly well maintained throughout the Dominion.

Investigational work with fertilizers is carried on by the Experimental Farms System of the Department of Agriculture at its branch farms and stations and at the Central Farm, Ottawa. The results of this work are used in furnishing agriculturists with information in respect to the economic employment of these materials. For the majority of crops the use of a "complete" fertilizer mixture—one furnishing nitrogen, phosphoric acid and potash—has been found to be advisable, especially in Eastern Canada and in British Columbia. The large



number of complete mixtures prepared by the manufacturers supply a wide range from which the farmer may choose in making the selection which he considers suitable for his particular crops and soil conditions. As might be expected, certain mixtures have been found to be more effective than others in the fertilizing of certain crops. As an example, in the Maritime Provinces, mixtures having a formula approximating a 9-5-7 is considered particularly suitable for the fertilizing of apple orchards in Nova Scotia; those of the nature of a 4-10-8 or 4-8-10 have given excellent results in the potato growing districts of New Brunswick and Prince Edward Island.

The increasing attention given to pasture fertilization in the stock raising and dairying districts of Canada is creating an appreciable increase in the demand for fertilizers, more particularly those furnishing nitrogen and phosphoric acid—the former to increase the protein content of the grass and the latter to give a higher ash content. In the more advanced systems of pasture management nitrogen is applied annually in one or more applications and minerals every 2 to 4 years. Of the various sources of nitrogen employed either alone or in the preparation of mixed fertilizers, sulphate of ammonia has gained precedence, due chiefly to its relatively low cost per unit of nitrogen.

In recent years the trend in fertilizer practice has been towards the use of more highly concentrated materials since this means a saving in freight and handling charges. This is evidenced by the increased manufacture and sale of 20 per cent and 45 per cent (triple) superphosphate and of ammonium phosphate carrying approximately 10 per cent nitrogen and 47 per cent phosphoric acid. The increase in the profitable use of fertilizers for grain crops in the Prairie Provinces has been due largely to the lowering of costs to the farmer through the employment of triple superphosphate and ammonium phosphate.

Investigational work dealing with the reclamation of peat areas as cultivable lands, carried on by the Division of Chemistry, Experimental Farms, Ottawa, has demonstrated that commercial fertilizers have an important place in the treatment of these lands. Peat lands are usually deficient in the mineral element of plant food and a fertilizer containing a high proportion of phosphoric acid and potash has given excellent results in the growth of field and vegetable crops.

**I.—Comparative Table Showing Total Sales of Fertilizer Materials and Mixed Fertilizers for the Fertilizer Years ending June 30, 1931 and 1932**

(Short tons)

Provinces	Fertilizer materials			Mixed Fertilizers		
	1931	1932	Percentage increase + decrease —	1931	1932	Percentage increase + decrease —
	tons	tons	p.c.	tons	tons	p.c.
Prince Edward Island.....	28,494	12,866	— 54.8	7,823	3,127	— 60.0
Nova Scotia.....	22,235	15,151	— 31.9	17,542	11,605	— 33.8
New Brunswick.....	18,134	14,336	— 20.9	24,811	14,344	— 42.2
Quebec.....	37,057	24,463	— 34.0	20,686	14,295	— 30.9
Ontario.....	24,189	14,067	— 41.8	70,009	37,835	— 46.0
Manitoba, Saskatchewan and Alberta.....	1,737	5,616	+ 223.3	39	233	+ 497.4
British Columbia.....	5,967	6,365	+ 6.7	5,494	5,680	+ 3.4
Canada.....	137,813	92,864	— 32.6	146,404	87,119	— 40.5
Sold for Export.....	70,889	64,992	— 8.3	7,742	20,467	+ 164.4
<b>Grand Total.....</b>	<b>298,702</b>	<b>157,856</b>	<b>— 24.4</b>	<b>154,146</b>	<b>107,536</b>	<b>— 30.2</b>

## II.—Production in Canada, Imports and Exports of Fertilizers, as Reported by the Manufacturers and Importers During the Year July 1, 1931 to June 30, 1932

(Short tons)

Items	Manu- factured	Imported	Exported
Mixed fertilizers.....	108,123	2,471	20,467
Sulphate of ammonia.....	42,660	12,526	28,175
Cyanamide.....	39,209	400	34,750
Calcium nitrate.....	—	350	—
Nitrate of soda.....	—	4,150	14
Superphosphate*.....	51,432	60,938	701
Basic slag.....	—	10,557	3
Nitrochalk.....	—	268	1
Phosphate rock.....	—	108,791	—
Bone meal and bone flour.....	678	129	—
Muriate of potash.....	—	18,958	264
Sulphate of potash.....	—	2,586	—
Potash manure salts and kainit.....	—	9,424	—
Tankage.....	1,257	1,579	312
Sheep manure.....	—	403	—
Dried blood.....	781	—	311
Fish meal.....	290	184	25
Ammonium phosphate.....	12,203	1,479	436
Other materials.....	—	792	—
<b>Total</b> .....	<b>256,633</b>	<b>235,985</b>	<b>85,459</b>

\*Includes 16%, 19%, 20% and 45% superphosphate.

## III.—Sales of Fertilizers, except for Manufacturing Purposes, during the year July 1, 1931 to June 30, 1932

(Short tons)

Fertilizers	P.E.I.	N.S.	N.B.	Que.	Ont.	Man., Sask. and Alta.	B.C.	Total sold in Canada	Sold for export from Canada	Grand Total
Nitrate of soda.....	113	780	1,225	612	973	—	106	3,815	14	3,829
Sulphate of ammonia.....	1,843	2,755	1,802	1,894	1,246	68	1,139	10,747	28,175	38,922
Cyanamide.....	—	741	—	—	325	—	—	1,066	34,750	35,816
Nitrochalk.....	2	11	18	112	24	—	3	170	1	171
Calcium nitrate.....	—	330	—	—	6	—	110	446	—	446
Superphosphate.....	8,706	3,868	7,221	15,189	9,560	1,906	1,738	48,197	701	48,898
Phosphate rock.....	—	—	1	35	35	—	10	81	—	81
Basic slag.....	—	6,075	605	4,778	—	—	153	11,611	3	11,614
Bone meal and bone flour.....	1	162	25	49	419	59	571	1,286	—	1,286
Muriate of potash.....	2,201	417	3,049	1,336	224	5	320	7,552	264	7,816
Sulphate of potash.....	—	1	37	240	88	5	59	430	—	430
Tankage.....	—	5	331	137	398	66	550	1,487	312	1,799
Sheep manure.....	—	—	—	1	283	—	77	361	—	361
Dried blood.....	—	—	—	—	167	31	297	495	311	806
Whale products.....	—	—	—	—	—	—	173	173	—	173
Fish meal.....	—	—	3	—	—	—	993	996	25	1,021
Ammonium phosphate.....	—	—	—	—	—	3,476	58	3,534	436	3,970
Other fertilizer materials.....	—	—	19	80	310	—	8	417	—	417
<b>Total Fertilizer</b> .....	<b>12,866</b>	<b>15,151</b>	<b>14,336</b>	<b>24,463</b>	<b>14,067</b>	<b>5,616</b>	<b>6,365</b>	<b>92,864</b>	<b>64,992</b>	<b>157,856</b>
Total mixed fertilizer.....	3,127	11,605	14,344	14,295	37,835	233	5,680	87,119	20,467	107,586
<b>Grand Total, 1932</b> .....	<b>15,993</b>	<b>26,756</b>	<b>28,680</b>	<b>38,758</b>	<b>51,902</b>	<b>5,849</b>	<b>12,045</b>	<b>179,983</b>	<b>85,459</b>	<b>265,442</b>
<b>Grand Total, 1931</b> .....	<b>36,317</b>	<b>39,777</b>	<b>42,945</b>	<b>57,743</b>	<b>94,198</b>	<b>1,776</b>	<b>11,461</b>	<b>284,217</b>	<b>78,631</b>	<b>362,848</b>

## IV.—Mixed Fertilizers Sold during the Year July 1, 1931 to June 30, 1932

(Short tons)

Formulae			P.E.I.	N.S.	N.B.	Que.	Ont.	Man., Sask. and Alta.	B.C.	Total sold in Canada	Sold for export	Grand Total
N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O										
0	10	4	-	-	-	27	117	-	-	144	-	144
0	10	10	-	-	610	99	36	-	-	745	-	745
0	10	16	-	-	-	-	-	-	110	110	-	110
0	12	2	-	-	-	106	-	-	-	106	-	106
0	12	4	-	-	-	-	258	-	-	258	-	258
0	12	5	-	-	-	1	1,000	-	-	1,001	-	1,001
0	12	10	-	-	-	-	34	-	-	116	-	116
0	12	15	-	-	-	-	754	-	82	754	-	754
2	8	4	-	302	426	440	2,041	-	-	3,209	5	3,214
2	8	5	-	-	-	-	848	-	-	848	-	848
2	8	10	-	15	30	437	752	-	-	1,234	3	1,237
2	8	16	-	-	-	-	220	-	-	220	-	220
2	10	2	48	1,659	407	-	175	-	-	2,349	5	2,354
2	10	10	-	-	-	93	13	-	-	106	-	106
2	12	2	-	-	81	1	144	-	-	226	-	226
2	12	6	-	-	38	1,350	6,371	-	-	7,759	5	7,764
2	16	6	-	-	-	-	2,143	-	-	2,143	-	2,143
3	8	4	-	-	37	-	11,028	-	-	11,065	34	11,099
3	8	5	-	-	-	-	319	-	-	319	-	319
3	8	6	-	-	-	12	162	-	-	174	-	174
3	8	7	158	8	5	-	-	-	-	171	200	371
3	8	10	-	-	71	62	-	-	-	133	-	133
3	10	5	-	-	-	-	2,688	-	-	2,688	-	2,688
3	10	6	-	-	-	-	865	-	-	865	-	865
3	10	7	-	-	-	-	-	150	-	150	-	150
3	10	8	-	-	-	-	-	-	2,756	2,756	-	2,756
3	12	5	-	-	-	-	104	-	-	104	-	104
4	6	4	-	-	-	-	-	-	342	342	-	342
4	6	10	-	595	1,887	22	12	-	-	2,516	1,136	3,652
4	8	4	895	4,528	326	104	152	-	-	6,005	18	6,023
4	8	6	-	-	-	173	3,412	-	-	3,585	86	3,671
4	8	7	622	1,521	322	90	42	-	-	2,597	4,074	6,671
4	8	10	713	-	532	7,454	991	-	-	9,690	174	9,864
4	8	12	201	-	810	61	37	-	504	1,613	-	1,613
4	8	13	485	305	2,388	-	-	-	-	3,178	2,373	5,551
4	9	4	-	-	-	-	145	-	-	145	-	145
4	10	4	-	-	-	-	1	-	173	174	-	174
4	10	10	-	-	-	-	-	-	1,048	1,048	-	1,048
4	12	4	1	1	15	69	608	35	-	729	-	729
5	6	9	-	-	-	872	-	-	-	872	-	872
5	7	5	-	-	-	-	-	-	-	-	500	500
5	7	10	-	-	977	-	-	-	-	977	263	1,240
5	8	7	-	-	1,144	667	652	-	-	2,463	797	3,260
5	8	12	-	5	985	-	-	-	-	990	3,077	4,067
5	9	8	-	163	3,132	-	-	-	-	3,295	6,857	10,152
5	10	5	-	1,388	13	-	206	-	-	1,607	-	1,607
5	12	2	-	2	-	58	42	30	-	132	-	132
6	8	10	-	-	9	1,629	110	-	-	1,748	200	1,948
6	10	10	-	-	-	-	-	-	305	305	-	305
8	16	14	2	126	-	-	-	-	-	128	-	128
8	10	20	-	-	-	23	-	-	-	23	383	406
9	5	7	-	927	-	-	-	-	-	927	-	927
12	5	7	-	-	-	206	-	-	-	206	-	206
Other mixed fertilizers			2	60	39	230	393	18	360	1,111	277	1,388
<b>Total</b>			<b>3,127</b>	<b>11,605</b>	<b>14,344</b>	<b>14,295</b>	<b>37,835</b>	<b>233</b>	<b>5,680</b>	<b>87,119</b>	<b>20,467</b>	<b>107,586</b>

## V.—Nitrogen, Phosphoric Acid and Potash contained in Mixed Fertilizers Sold in Canada, during the Years ending June 30, 1931 and 1932

Province	1931				1932			
	Total Tonnage	Nitrogen	Phos- phoric Acid	Potash	Total Tonnage	Nitrogen	Phos- phoric Acid	Potash
	tons	lb.	lb.	lb.	tons	lb.	lb.	lb.
Prince Edward Island	7,615	600,220	1,220,960	1,667,760	3,127	245,240	502,600	500,580
Nova Scotia	17,542	1,337,640	2,916,440	2,164,920	11,605	982,040	1,921,160	1,210,520
New Brunswick	24,765	2,049,240	3,885,960	4,982,660	14,344	1,179,560	2,206,160	2,567,600
Quebec	20,686	1,496,700	3,602,220	3,523,420	14,295	1,162,320	2,259,640	2,492,040
Ontario	70,009	3,559,880	13,811,960	8,100,880	37,835	1,987,480	7,406,140	4,178,720
Manitoba, Saskatchewan and Al- berta	39	6,260	7,320	1,200	233	18,040	55,320	28,240
British Columbia	5,091	324,380	1,011,100	771,880	5,521	393,400	1,070,800	954,940
Sold for export from Canada	7,742	791,200	1,242,460	1,489,240	20,467	1,910,340	3,431,120	3,806,120
<b>Canada</b>	<b>153,489</b>	<b>10,162,520</b>	<b>27,758,420</b>	<b>22,701,960</b>	<b>107,427</b>	<b>7,878,420</b>	<b>18,852,940</b>	<b>15,738,760</b>
Miscellaneous (no analyses given)	657	-	-	-	159	-	-	-

## VI.—Reporting Companies

Nature of Trade*	Name	Address
m.m.f.; i	Abol Limited.....	Beltring, Paddock, Kent, England.
m.s.a.; e.	Agricultural Chemicals, Ltd.....	Port Hope, Ont.
m.m.f.; i.	Algoma Steel Corporation, Ltd.....	Sault Ste. Marie, Ont.
	Allied Agricultural Fertilizers.....	4670 Christopher Columbus St., Montreal.
	American Agricultural Chemical Co.....	420 Lexington Ave., New York, U.S.A.
m.e.; e.; i.	American Cyanamid Co.....	535-5th Ave., New York., U.S.A.
m.m.f.	Armour Fertilizer Works.....	Sandusky, Ohio, U.S.A.
m.s.a.	Biggar, W. B.....	Port Robinson, Ont.
	B.C. Electric Railway Co.....	425 Corral St., Vancouver, B.C.
m.o.	Burlington Rendering Co.....	Burlington, Vt., U.S.A.
m.o.	Burns, P. and Company.....	Calgary, Alta.
m.o.	" ".....	Edmonton, Alta.
m.o.	" ".....	Regina, Sask.
m.o.	" ".....	Winnipeg, Man.
m.m.f.; o.; i	" ".....	Vancouver, B.C.
d	Canada and Dominion Sugar Co., Ltd.....	Chatham, Ont.
m.m.f.; o.; e	Canadian Fertilizer Co., Ltd.....	Chatham, Ont.
m.m.f.; i.	Canadian Industries Limited.....	Halifax, N.S.
m.m.f.; s. p.; i.	" ".....	Beloeil, Que.
m.m.f.; s. p.; i.	" ".....	Hamilton, Ont.
m.m.f.; s. p.; i.	" ".....	New Westminster, B.C.
m.o.; e.	Canadian Packing Co., Ltd.....	Peterborough, Ont.
d.; i	Cheroiens Limited.....	384 St. Paul St. W., Montreal, Que.
d.	Clarkson Dixie Fruit Growers' Assn.....	Clarkson, Ont.
m.m.f.; i.	Colonial Fertilizer Works.....	Windsor, N.S.
m.m.f.; a.p.; s.p.; i.; e.	Consolidated Mining & Smelting Co. of Canada, Ltd.....	Trail, B.C.
d.; i	Co-opérative Fédérée de Quebec.....	130 St. Paul St. E., Montreal, Que.
m.m.f.	Davey Tree Expert Co. of Canada.....	57 Bloor St. W., Toronto, Ont.
d.	Dingmann, M. E.....	Leamington, Ont.
m.s.a.	Dominion Steel & Coal Corp., Ltd.....	Sydney, N.S.
d.	Dunsmuir's Limited.....	Kitchener, Ont.
d.	Durham Fruit Growers' Co-operative, Ltd.....	Canton, Ont.
d.	Empire Fertilizer, Ltd.....	2345 Dundas St. W., Toronto, Ont.
m.o.	Fearnan Co., Ltd.....	226 Rebecca St., Hamilton, Ont.
d.; i	Fertilizers and Feeds, Ltd.....	2380 Dundas St. W., Toronto, Ont.
m.m.f.	Fertilizer Products, Ltd.....	285 First Ave. E., Vancouver, B.C.
m.m.f.; i.	Furuya Company, Limited.....	46 West Hastings St., Vancouver, B.C.
m.o.	Gainers Limited.....	South Edmonton, Alta.
d.	Georgian Bay Fruit Growers, Ltd.....	Charlksburg, Ont.
m.m.f.	Globe Fertilizer Co., Ltd.....	Vancouver, B.C.
d.	Gregory, F. R.....	Leamington, Ont.
m.m.f.; o.; e.	Guinn Limited.....	West Toronto, Ont.
d.	Halliday, George.....	Sawyerville, Que.
m.s.a.; e	Hamilton By-Product Coke Ovens, Ltd.....	Hamilton, Ont.
d.	Hants Wholesalers, Ltd.....	Windsor, N.S.
m.m.f.; o.	Harris Abattoir (Western), Limited.....	St. Boniface, Man.
m.o.	Harris, W., Co., Limited.....	200 Keating St., Toronto, Ont.
m.m.f.	Higgins, A. W., Co., Inc.....	Presque Isle, Me., U.S.A.
	International Agricultural Corp.....	708 Stock Exchange Bldg., Buffalo, N.Y., U.S.A.
m.m.f.; i.; e.	International Fertilizers Ltd.....	Saint John, N.B.
d.; i	International Fertilizers.....	71 St. Peter St., Quebec, Que.
m.m.f.; i.	Island Fertilizer Co., Ltd.....	Charlottetown, P.E.I.
m.m.f.; i	Lavigne, Arthur.....	5118 Marquette St., Montreal, Que.
m.o.	Maritime Rendering Co., Ltd.....	Saint John, N.B.
m.m.f.; o.; i.	Marquis (Estate F. Canac Marquis).....	3 rue Courelette, Quebec, Que.
	Milwaukee Sewerage Commission.....	Milwaukee Wis., U.S.A.
m.s.a.; e.	Montreal Coke Manufacturing Co.....	P.O. Box 1660, Montreal, Que.
d.; i.	New Brunswick Agricultural Societies.....	East Centreville, N.B.
d.; i.	Niagara Brand Spray Co., Ltd.....	Burlington, Ont.
d.; i.	Niagara Fruit Co., Ltd.....	Queenston, Ont.
d.	Niagara Packers Limited.....	Grimsby, Ont.
d.	Norfolk Fruit Growers Association.....	Simcoe, Ont.
d.; i.	Nova Scotia Fertilizer Co., Ltd.....	Roy Bldg., Barrington St., Halifax, N.S.
m.m.f.; o.; i.; e.	Ontario Fertilizers Limited.....	West Toronto, Ont.
m.m.f.; i.	Paterson, R. Downing.....	89 Water St., Saint John, N.B.
d.; i.	P.E.I. Potato Growers' Assoc., Inc.....	Charlottetown, P.E.I.
	Royster Guano, F. S., Co.....	Royster Bldg., Norfolk, Va., U.S.A.
m.m.f.	Rupert Marine Products, Limited.....	Box 1606 Prince Rupert, B.C.
d.	Saguenay Fertilizer Company.....	Chicoutimi, Que.



## VI.—Reporting Companies—Concluded

Nature of Trade*	Name	Address
d.	St. Catharines Cold Storage & Forwarding Co., Ltd.	Davidson St., St. Catharines, Ont.
m.o.; e.	Schneiders Limited, J. M.	321 Courtland Ave. E., Kitchener, Ont.
d.	Scott & Peden.	1601 Stone St., Victoria, B.C.
m.m.f.; i.	Scottish Fertilizers Ltd.	Welland, Ont.
	Smith Agricultural Chemical Co.	Columbus, Ohio.
m.s.a.; e.	Steel Company of Canada, Ltd.	Hamilton, Ont.
m.m.f.; o.; i.	Stone, Wm., and Sons, Limited.	Ingersoll, Ont.
m.m.f.; i.; e.	Summers Fertilizer Co., Ltd.	St. Stephen, N.B.
d.; i.	Swift Canadian Company Limited.	Union Stockyards, Toronto 9, Ont.
d.; i.	Toronto Chemical & Fertilizer Co.	248 Keele St., Toronto, Ont.
d.; i.	United Fruit Companies of Nova Scotia, Ltd.	Kentville, N.S.
d.	Vancouver Milling and Grain Co.	Vancouver, B.C.
d.; i.	Vineland Growers Co-operative Co., Ltd.	Vineland Station, Ont.
d.; i.	Webb, Edward & Sons, Ltd.	93 King St. E., Toronto, Ont.
m.m.f.; i.	Witts Fertilizer Works.	Norwich, Ont.
m.m.f.; o.	Young and Company.	166 Kenting St., Toronto, Ont.

\*m.—Manufacturing.

m.a.p.—Manufacturing ammonium phosphate.

m.c.—Manufacturing cyanamide.

m.m.f.—Manufacturing mixed fertilizers.

m.o.—Manufacturing organics.

m.s.a.—Manufacturing sulphate of ammonia.

m.s.p.—Manufacturing superphosphate.

m.p.—Manufacturing carbonate of potash.

e.—Exports.

i.—Imports.

d.—Dealer.

**The Fertilizers Act.**—The sale of fertilizers in Canada is controlled by the Fertilizers Act of 1922 and as amended in 1928. This Act comes under the Criminal Code of Canada and is effective throughout the Dominion. There are no provincial fertilizer laws in Canada. The Act is administered by the Fertilizer Division, Seed Branch, of the Department of Agriculture, and its principal provisions are briefly as follows:—

1. The registration of every fertilizer prior to its being offered for sale under a guaranteed analysis stated in minimum percentages of nitrogen, phosphoric acid and potash.

2. The vendors' guaranteed analysis as registered must be branded or marked on the container of the fertilizer or on the label attached thereto.

3. The brand names or names of fertilizer that may be used must conform with a definite nomenclature as provided by regulations under the Act.

4. The use of ingredients that may be injurious to soils and crops is prohibited.

5. Under a special regulation the importation of doubtful and low quality fertilizers is not permitted, except for manufacturing purposes.

6. The main purpose of the Fertilizers Act is to protect farmers and other buyers of fertilizer against fraud, so that the provisions of the Act require the sale of fertilizer under registered guaranteed analysis and this guaranteed analysis must be fully met, so that buyers will have delivered to them as much plant food as contracted for. The fertilizer inspectors inspect each fertilizer offered for sale one or more times each year. Samples are taken by the inspectors and submitted to an official analyst for report. The results of analysis thus reported are compared with the vendors' guarantee and when failure to meet this guarantee is proven the seizure and prosecution provisions of the Act are invoked with serious consequences to offenders. The results of analyses are published in an annual report of analyses by the Department of Agriculture so

that farmers and other buyers may know the record of each of the vendors in meeting their guaranteed analysis. Farmers are invited to use this annual report of analyses as a guide when buying fertilizer.

During the year ending June 30, 1932, the inspectors under the Fertilizers Act found in the market some 333 different brands of registered fertilizers and 1,085 official samples were taken and analysed. In fairness to vendors it must be said that in recent years there has been a notable decrease in failures to meet guaranteed analyses and in other violations of the provisions of the Act. There are now few failures to meet guarantees either directly or by compensation. This improved condition is credited largely to the whole-hearted support of Canadian fertilizer manufacturers and importers in conforming with provisions of the Act and thus assisting the fertilizer inspectors in its enforcement. On the other hand, due to substantial improvements in the efficiency of modern fertilizer mixing machinery there can be little excuse for lack of uniform analysis and none for not meeting guaranteed analyses.

**List of Publications.**—The following government publications in connection with fertilizer may be obtained free on application to the Publications Branch, Department of Agriculture, Ottawa, Canada:—

1. The Fertilizers Act (with regulations and amendments).
2. Annual Report on Fertilizer Analyses (small).
3. Manures and Fertilizers (Revised Edition).
4. Fertilizers and Their Use in Canada.
5. Manuring of Market Garden Crops.
6. Lime in Agriculture.
7. Seaweed as a Fertilizer.
8. Potash in Agriculture.
9. Composts as a Source of Humus and Nitrogen.
10. Fertilizers for the Potato Crop.
11. Fertilizers for the Lawn.
12. Artificial Manure.
13. Peat and Muck.
14. Alkali Soils.
15. The Influence of Grain Growing on the Nitrogen and Organic Matter Content of the Western Prairie Soils of Canada.
16. Western Prairie Soils.
17. Prince Edward Island Soils.
18. Most of the Provincial Departments of Agriculture issue free publications dealing with the use of fertilizers under the different soil and crop conditions. Applications for these should be addressed to the Provincial Department of Agriculture for each province.
19. Some of the larger fertilizer manufacturers maintain educational bureaus which frequently publish very valuable information which may also be obtained free on application.



STATISTICS CANADA LIBRARY  
BIBLIOTHÈQUE STATISTIQUE CANADA



1010650594