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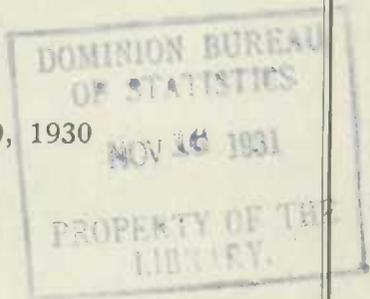
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1929/30

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

# THE FERTILIZER TRADE IN CANADA

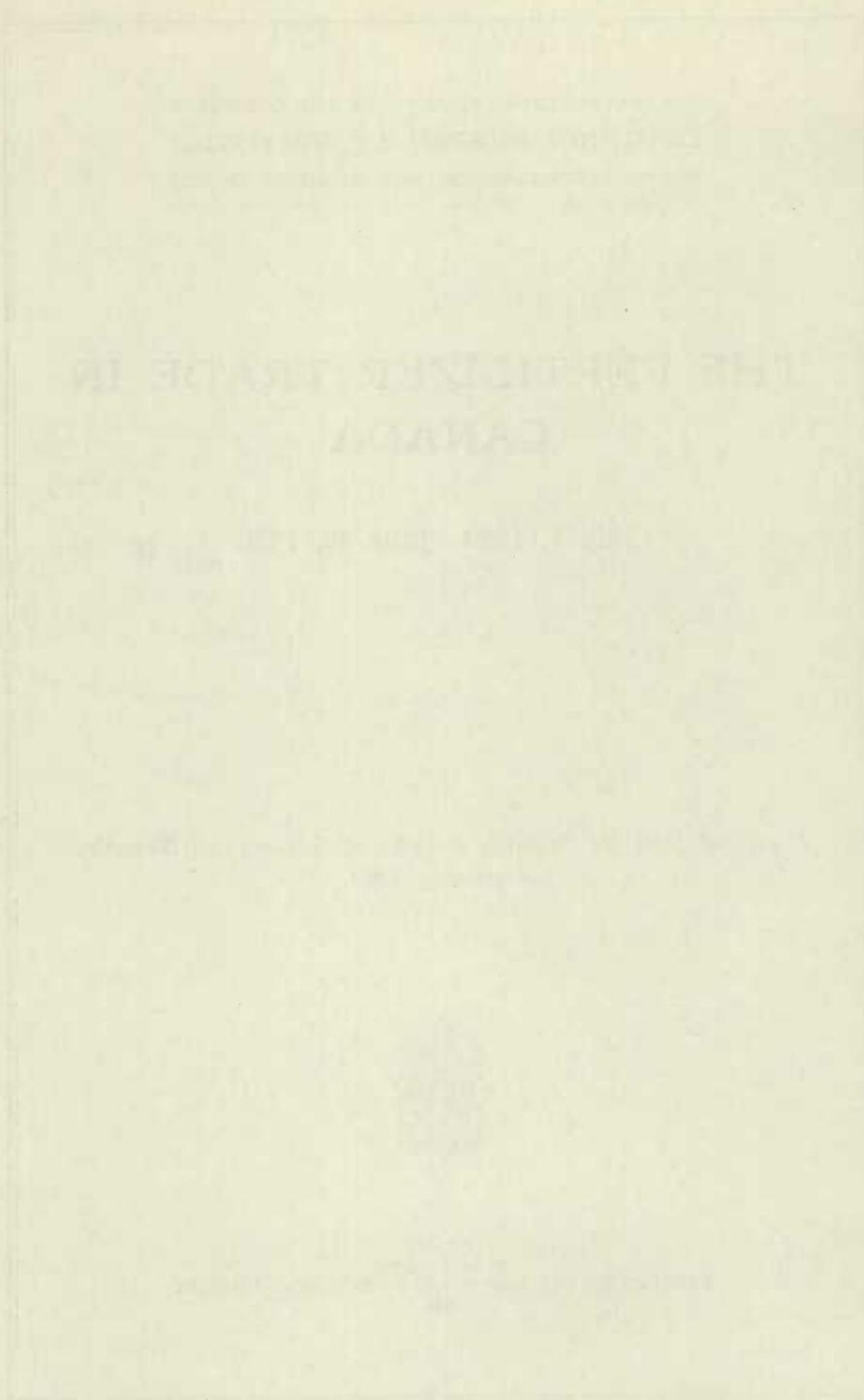
July 1, 1929—June 30, 1930



*Reprinted from the Monthly Bulletin of Agricultural Statistics,  
September, 1931*



OTTAWA  
F. A. ACLAND  
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY  
1931



## THE FERTILIZER TRADE IN CANADA July 1, 1929-June 30, 1930

Prepared by W. H. LOSEE, B.Sc., Chief of the Mining, Metallurgical and Chemical Branch.

The Chemical Branch of the Dominion Bureau of Statistics in co-operation with the Fertilizer Division of the Department of Agriculture has just completed a survey of the trade in fertilizers in Canada for the period ending June 30, 1930. This is the third report of this kind, previous surveys having been made for the fertilizer years ending June, 1927 and June, 1929.

Sales were reported by 74 plants which included manufacturers, importers, jobbers, and the larger farmer co-operative organizations. Care was taken to prevent, insofar as possible, over-lapping of information reported by those who sell to other distributors and direct to the ultimate user. The primary object was to gather data showing domestic sales for consumption.

An analysis of the returns received showed that 36 companies manufactured fertilizers or fertilizer materials and 17 operated plants in other countries. Canadian-made fertilizers or fertilizer materials were sold for use in Canada by 54 companies and 21 plants were exporting Canadian-made products; 48 companies sold fertilizers which were produced in countries other than Canada, and two companies were exporting fertilizers which were made by firms outside of Canada.

**Fertilizers Marketed.**—Fertilizers marketed from the 74 plants during the year under review amounted to 449,607 short tons, an increase of 25 per cent over the previous twelve months. Of this total, 321,207 tons were sold for use in Canada and 128,400 were for export, the principal part of the exported material being cyanamide. Total sales in Canada amounted to 321,207 tons, of which 166,257 tons were fertilizer materials and 154,950 tons were mixed fertilizers. Of the total fertilizer materials sold in Canada, superphosphate constituted 91,738 tons or 31 per cent; basic slag 19,430 tons; sulphate of ammonia 13,727 tons; muriate of potash 12,810 tons and nitrate of soda 10,945 tons. Bone phosphate, tankage, ground phosphate rock and bone meal were sold in considerable proportions and smaller quantities of nitro-chalk, bone flour, cyanamide, sulphate of potash, sheep manure, dried blood, and whale products were also marketed.

**I.—Comparative Table showing Total Sales of Fertilizer Materials and Mixed Fertilizers for the Fertilizer Years ending June 30, 1929 and 1930**  
(Short tons)

Province	Fertilizer materials			Mixed fertilizers		
	1929	1930	Percentage Increase + Decrease -	1929	1930	Percentage Increase + Decrease -
	tons	tons	p.c.	tons	tons	p.c.
Prince Edward Island.....	18,929	22,205	+ 17.3	4,005	11,429	+ 185.3
Nova Scotia.....	18,701	20,809	+ 11.2	11,551	14,367	+ 24.3
New Brunswick.....	23,914	34,331	+ 43.5	13,729	22,863	+ 66.5
Quebec.....	16,106	39,370	+ 144.4	6,632	16,174	+ 143.8
Ontario.....	33,242	41,205	+ 24.0	66,613	83,622	+ 25.5
Manitoba, Saskatchewan and Alberta.....	260	296	+ 13.8	57	29	- 49.1
British Columbia.....	4,520	8,041	+ 77.8	5,491	6,466	+ 17.7
Canada.....	115,672	166,257	+ 43.7	108,078	154,950	+ 43.3
Sold for export.....	134,950	124,946	- 7.4	900	3,454	+ 283.0
<b>Grand Total.....</b>	<b>250,622</b>	<b>291,203</b>	<b>+ 16.1</b>	<b>108,978</b>	<b>158,404</b>	<b>+ 45.3</b>

**II.—Sales of Fertilizers, except for Manufacturing Purposes, during the Year July 1, 1929 to June 30, 1930**

(Short tons)

Fertilizers	Sold in Canada							Total sold in Canada	Sold for export from Canada	Grand Total
	P.E.I.	N.S.	N.B.	Que.	Ont.	Man., Sask., and Alta.	B.C.			
	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons
Nitrate of soda.....	973	3,294	3,018	512	2,079	3	1,006	10,945	16	10,961
Sulphate of ammonia...	1,692	561	3,646	3,182	4,297	38	311	13,727	20,781	34,508
Cyanamide.....	-	349	-	-	5	-	-	354	101,022	101,376
Nitro-chalk.....	-	-	-	-	1,251	-	-	1,251	-	1,251
Calcium nitrate.....	-	186	1	116	11	-	111	425	-	425
Bone phosphate.....	-	-	1,504	1,337	2,313	-	39	5,193	-	5,193
Superphosphate.....	15,072	8,215	18,298	20,880	26,558	2	2,713	91,738	67	91,805
Ground phosphate rock.	-	-	-	-	1,836	-	14	1,850	-	1,850
Basic slag.....	-	6,074	1,477	10,707	55	-	217	19,430	-	19,430
Bone meal.....	-	304	20	9	342	145	432	1,252	-	1,252
Bone flour.....	-	-	501	46	85	10	48	690	-	690
Muriate of potash.....	4,448	719	4,825	1,875	288	1	654	12,810	17	12,827
Sulphate of potash.....	-	7	-	145	180	-	118	450	-	450
Potash manure salts.....	-	-	100	50	144	-	-	294	-	294
Tankage.....	-	-	675	480	703	45	252	2,155	2,650	4,805
Sheep manure.....	-	-	-	8	455	-	173	636	-	636
Dried blood.....	-	-	-	-	302	35	84	421	150	571
Whale products.....	-	-	-	-	-	-	919	919	-	919
Fish meal.....	-	-	241	-	-	-	853	1,094	243	1,337
Other fertilizer materials.....	20	200	25	23	301	17	37	623	-	623
<b>Total Fertilizer.....</b>	<b>22,205</b>	<b>20,809</b>	<b>34,331</b>	<b>39,370</b>	<b>41,205</b>	<b>296</b>	<b>8,641</b>	<b>166,257</b>	<b>124,946</b>	<b>291,203</b>
Total Mixed Fertilizers.....	11,429	14,367	22,863	16,174	83,622	29	6,466	154,959	3,454	158,404
<b>Grand Total, 1930.....</b>	<b>33,634</b>	<b>35,176</b>	<b>57,194</b>	<b>55,544</b>	<b>124,827</b>	<b>325</b>	<b>14,507</b>	<b>321,207</b>	<b>128,400</b>	<b>449,607</b>
<b>Grand Total, 1929.....</b>	<b>22,934</b>	<b>30,252</b>	<b>37,643</b>	<b>22,738</b>	<b>99,855</b>	<b>317</b>	<b>10,011</b>	<b>223,750</b>	<b>135,850</b>	<b>359,600</b>

**Provincial Review.**—An examination of the totals indicates increases in consumption in every province of Canada. Ontario sales amounted to 124,827 tons, or 39 per cent of the total and 25 per cent increase over the previous year. Quebec sales totalled 55,544 tons, as compared with 22,738 tons in 1929, an increase of 145 per cent. New Brunswick increased 52 per cent to 57,194; Nova Scotia rose to 35,176 tons from 30,252 in 1929; Prince Edward Island took 33,634 tons, an increase of 47 per cent; British Columbia purchased 14,507 tons as against 10,011 in the previous year and the Prairie Provinces, Manitoba, Saskatchewan and Alberta showed a slight increase.

**Mixed Fertilizers.**—Mixed fertilizers are those containing at least two, and usually three, of the raw fertilizer materials, e.g., sulphate of ammonia, superphosphate and muriate of potash. As carriers of nitrogen, there are the following common materials:—sulphate of ammonia, nitrate of soda, nitrate of lime, cyanamide, nitro-chalk, blood, tankage, fish meal—and any of these may be used in the mixtures. Superphosphate usually is the carrier of the phosphoric acid and to a small extent, bone meal, tankage and fish meal. The potash is usually supplied in one of three forms:—muriate, sulphate and carbonate, the muriate constituting the main source. A common practice permits the addition in mixed fertilizer of filler, in order to raise the weight to the ton basis when the formula requires it. The filler used is usually a spent moulding sand, or ground limestone, both of which are inert, but improve the physical condition of the product so that it may be applied evenly to the soil.

## III.—Mixed Fertilizers sold during the Year July 1, 1929 to June 30, 1930

(Short tons)

Formula			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	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons
0	10	4	-	-	-	62	598	-	-	660	-	660
0	10	10	-	-	-	231	278	-	33	542	-	542
0	10	16	-	-	-	-	-	-	139	139	-	139
0	12	2	-	-	-	256	-	-	-	256	-	256
0	12	4	-	-	-	-	1,050	-	-	1,050	-	1,050
0	12	5	10	-	1,500	120	8,306	-	-	9,936	-	9,936
0	12	6	-	-	-	117	730	-	-	847	-	847
0	12	10	-	-	-	-	481	-	215	696	-	696
0	12	12	-	-	-	31	126	-	-	157	-	157
0	12	15	-	-	-	3	1,319	-	-	1,319	-	1,319
0	14	4	-	-	-	-	304	-	-	304	-	304
0	14	6	-	-	-	-	1,317	-	-	1,317	-	1,317
2	8	4	-	886	620	1,158	9,995	-	-	12,659	-	12,659
2	8	5	-	-	-	-	1,901	-	-	1,901	-	1,901
2	8	6	-	-	-	139	145	-	-	284	-	284
2	8	10	25	542	208	1,457	1,418	-	-	3,650	-	3,650
2	10	2	7	1,730	1,211	421	740	-	130	4,239	60	4,299
2	12	2	-	-	690	26	2,966	-	10	3,602	-	3,602
2	12	4	-	-	-	-	107	-	-	107	-	107
2	12	6	-	-	850	2,246	15,171	-	-	18,267	-	18,267
2	13	5	-	-	-	-	561	-	-	561	-	561
2	16	6	-	-	-	-	800	-	-	800	-	800
3	6	10	1	476	2,051	120	22	-	-	2,670	163	2,833
3	8	4	8	499	137	4	10,864	-	-	11,512	44	11,556
3	8	5	-	-	-	-	660	-	-	660	-	660
3	8	6	-	-	-	59	312	-	-	371	-	371
3	8	7	1,028	-	-	45	73	-	-	1,146	-	1,146
3	8	10	-	-	-	1,978	56	-	-	2,034	-	2,034
3	10	4	-	717	118	128	144	-	-	1,107	-	1,107
3	10	5	-	-	-	-	2,503	-	-	2,503	-	2,503
3	10	6	-	-	-	-	509	-	-	509	-	509
3	10	7	-	-	-	-	-	-	537	537	85	622
3	10	8	-	-	-	-	-	-	3,444	3,444	-	3,444
3	12	5	-	-	-	-	129	-	-	129	-	129
3	12	6	-	-	-	-	180	-	-	180	-	180
4	6	10	-	200	2,193	286	163	-	-	2,842	23	2,865
4	7	10	-	-	-	-	-	-	-	-	-	216
4	8	4	3	4,805	435	287	1,142	-	-	6,672	33	6,705
4	8	6	-	-	720	150	8,588	-	-	9,467	42	9,509
4	8	7	1,986	530	971	76	30	-	-	3,593	368	3,961
4	8	10	-	-	302	2,163	2,744	5	-	5,214	-	5,214
4	8	12	1,073	-	-	-	-	-	203	1,276	-	1,276
4	8	13	6,698	503	3,871	2	-	-	-	11,074	-	11,074
4	9	4	-	-	-	90	412	-	-	502	-	502
4	10	4	-	-	-	-	68	-	731	799	-	799
4	10	7	-	-	-	-	-	-	174	174	10	184
4	10	10	-	-	-	28	-	-	435	463	-	463
4	12	4	-	40	616	250	1,448	20	63	2,437	-	2,437
4	12	8	-	-	-	-	111	-	-	111	-	111
5	6	9	-	-	-	070	-	-	-	670	-	670
5	7	10	-	-	309	-	-	-	-	309	-	309
5	8	7	-	-	1,101	909	2,474	-	-	4,484	115	4,599
5	8	11	-	-	650	-	-	-	-	650	-	650
5	8	12	-	-	948	-	-	-	-	948	-	948
5	9	8	473	799	2,368	-	-	-	-	3,640	2,253	5,893
5	10	5	56	977	79	2	525	-	-	1,639	9	1,648
5	12	0	-	-	-	-	208	-	-	208	-	208
5	12	2	-	-	-	-	125	-	-	125	-	125
5	12	5	-	-	-	100	777	-	-	877	-	877
6	8	10	-	-	-	2,163	296	-	-	2,459	-	2,459
6	9	8	-	-	172	-	-	-	-	172	-	172
6	10	10	-	-	-	-	12	-	228	240	-	240
8	16	14	61	-	58	-	-	-	-	119	18	137
0	5	7	-	852	-	-	-	-	-	852	-	852
10	16	14	-	-	300	-	-	-	-	300	-	300
Other Mixed Fertilizer	-	-	-	811	475	388	737	4	124	2,539	15	2,554
<b>Grand Total, 1930</b>			<b>11,429</b>	<b>14,367</b>	<b>22,863</b>	<b>16,174</b>	<b>83,622</b>	<b>29</b>	<b>6,466</b>	<b>154,950</b>	<b>3,454</b>	<b>158,404</b>



## V.—Reporting Companies—Concluded

Nature of Trade*	Name	Address
acde	Ontario Fertilizers, Ltd.....	West Toronto, Ont.
acd	Ottawa Gas Company.....	Ottawa, Ont.
bef	Paterson, R. Downing.....	89 Water St., St. John, N.B.
c	Phosphates Français, Ltée.....	37 rue de la Couronne, Quebec, Que.
ce	P.F.I. Potato Growers' Association.....	Charlottetown, P.E.I.
be	Royster Guano, F. S. Co.....	Royster Bldg., Norfolk, Va., U.S.A.
c	Scott & Peden.....	Victoria, B.C.
ce	Sayer & Co.....	624 Main St. W., Vancouver, B.C.
aco	Scottish Fertilizers.....	Welland, Ont.
c	Swift Canadian Co.....	Union Stock Yards, Toronto, Ont.
e	Sylvester Feed Co.....	709 Yates St., Vancouver, B.C.
acc	Saint John Fertilizer Co.....	Chesley St., Saint John, N.B.
be	Standard Wholesale Phosphate & Acid Works	Baltimore, Md., U.S.A.
acd	Steel Co. of Canada.....	Hamilton, Ont.
be	Summers Fertilizer Co., Inc.....	32 Stock Exchange Bldg., Baltimore, Md., U.S.A.
c	Superior Fertilizer Co.....	Lucknow, Ont.
e	Tarr, Ben.....	Harriston, Ont.
c	Tanguay, Ltd.....	111 rue St. Pierre, Quebec, Que.
be	Tennessee Copper & Chemical Co.....	61 Broadway, New York, U.S.A.
c	United Farmers Co-op. Co., Ltd.....	Cor. of Duke and George Sts., Toronto, Ont.
ce	United Fruit Companies of N.S.....	Kentville, N.S.
acde	Vancouver Milling & Grain Co.....	Vancouver, B.C.
bee	Webb & Sons, Ltd.....	93 King St. E., Toronto 2, Ont.
ace	Witts Fertilizer Works.....	Norwich, Ont.

\* a—Manufacturing Fertilizers or Fertilizer Materials in Canada.

b—Manufacturing Fertilizers or Fertilizer Materials in Other Countries.

c—Selling Canadian-made Fertilizers or Fertilizer Materials for use in Canada.

d—Selling Canadian-made Fertilizers or Fertilizer Materials for export from Canada.

e—Selling Fertilizers or Fertilizer Materials produced in countries other than Canada, for use in Canada.

f—Selling Fertilizers or Fertilizer Materials produced in countries other than Canada, for Export from Canada.

**Fertilizer Imports.**—The Fertilizers Division of the Department of Agriculture has compiled some interesting tables on imports of fertilizers into Canada for the year ending June 30, 1930. These tabulations which are appended to this report are arranged to show the total number of importations of mixed fertilizers and fertilizer materials, the countries of origin, and the total imports by provinces.

Fertilizer imports are subject to regulation 10 of the Fertilizers Act. Every shipment into Canada must be accompanied by a signed statement by the shipper or importer showing the kind and quantity of each fertilizer constituting the shipment, and the destination of the shipment. A copy of this statement is forwarded by the Collector of National Revenue at the port of entry to the local fertilizer inspector so as to assist in the enforcement of the Act.

The compilations of imports given in the following pages were made from the information thus obtained for the registration year ending June 30, 1930.

## VI.—Number of Importations by Provinces

Province	Mixed fertilizers	Materials	Total
Prince Edward Island.....	19	21	40
Nova Scotia.....	84	65	149
New Brunswick.....	101	86	187
Quebec.....	374	291	665
Ontario.....	1,997	1,177	3,174
Manitoba.....	16	8	24
Saskatchewan.....	—	—	—
Alberta.....	1	—	1
British Columbia.....	8	69	77
	2,600	1,717	4,317

## VII.—Imports by Countries of Origin

Province	Total number im- portations	U.S.A.	England	France	Holland	Belgium	Germany	South America	New Zealand
Prince Edward Island...	40	30	—	—	10	—	—	—	—
Nova Scotia.....	149	126	3	4	7	2	6	1	—
New Brunswick.....	187	85	6	—	67	7	22	—	—
Quebec.....	665	606	10	2	45	—	2	—	—
Ontario.....	3,174	3,123	19	1	29	—	1	1	—
Manitoba.....	24	23	1	—	—	—	—	—	—
Saskatchewan.....	—	—	—	—	—	—	—	—	—
Alberta.....	1	1	—	—	—	—	—	—	—
British Columbia.....	77	68	1	—	3	2	1	—	2
<b>Totals.....</b>	<b>4,317</b>	<b>4,062</b>	<b>40</b>	<b>7</b>	<b>161</b>	<b>11</b>	<b>32</b>	<b>2</b>	<b>2</b>

## VIII.—Imports of Fertilizers by Kinds and by Provinces during the Year ending June 30, 1930

Fertilizer Materials	Prince Edward Island	Nova Scotia	New Brun- swick	Quebec	Ontario	Manitoba	Sas- kat- chewan	Alberta	British Columbia	Canada
	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds
Mixed fertilizer*.....	8,556,200	7,705,562	25,095,614	7,706,729	47,990,419	957,627	—	2,000	163,295	98,177,446
Basic slag.....	—	7,622,250	3,265,440	15,662,864	—	40,000	—	—	112,000	26,702,554
Sheep manure.....	—	—	—	—	301,714	40,000	—	—	146,200	487,914
Nitrate of soda.....	1,172,000	6,611,442	7,269,997	495,697	1,500,017	9,934	—	—	7,012,698	24,071,785
Sulphate of ammonia.....	1,786,000	290,000	2,002,000	144,300	66,443	10,700	—	—	200,089	4,499,532
Super or acid phosphate.....	20,320,000	40,367,175	24,770,066	29,265,995	69,026,846	1,009,860	—	—	1,470,267	186,830,149
Muriate of potash.....	5,990,000	8,408,600	13,913,300	3,512,100	7,599,222	23,834	—	—	1,009,688	41,056,744
Sulphate of potash.....	—	—	222,264	559,800	1,062,926	—	—	—	250,333	2,095,323
Manure salts and kunit.....	—	1,998,139	4,480	100,000	—	—	—	—	80,702	2,183,321
Tankage.....	—	1,537,985	670,000	—	1,715,118	—	—	—	268,624	4,191,727
Bone meal.....	—	120,000	7,168	—	135,449	—	—	—	181,884	444,501
Other materialst.....	—	374,400	37,600	11,200	640,221	—	—	—	2,646,226	3,709,650
<b>Total.....</b>	<b>37,924,200</b>	<b>75,835,553</b>	<b>77,257,929</b>	<b>57,458,685</b>	<b>130,038,375</b>	<b>2,691,895</b>	<b>—</b>	<b>2,000</b>	<b>14,142,069</b>	<b>394,450,646</b>
Tons.....	18,912	37,518	38,629	28,729	65,019	1,316	—	1	7,071	197,225

\*Includes Ammonium Phosphate, Nitrophoska, etc., carrying two or more of the plant foods.

tIncludes the following:—Fish Meal, 12,000 lb. for Nova Scotia, 37,600 lb. for New Brunswick, 100,663 for British Columbia; Nitro-Chalk, 22,400 lb. for Nova Scotia; Calcium Nitrate, 340,000 lb. for Nova Scotia, 331,710 lb. for British Columbia; Natural Rock Phosphate, 11,200 lb. for Quebec, 630,000 lb. for Ontario, 2,140,000 lb. for British Columbia; Cyanamide, 42,132 lb. for British Columbia; Liver Meal, 31,724 lb. for British Columbia.

**Fertilizer Control.**—The Fertilizer Law, enacted in 1922 and amended in 1928, comes under the Criminal Code of Canada and is effective all over the Dominion. The principal restrictions imposed by this Act are the registration of every fertilizer in the market, the meeting of the guaranteed analysis as registered by the vendor, the use of ingredients that are not injurious to soils and crops, the selling of fertilizers of standard nomenclature and the confiscation of fertilizer under the special seizure clause when it is sold in contravention to the law. Through these restrictions, fraudulent practices on the part of vendors are now almost unknown. Samples of every brand of fertilizer sold in Canada are taken each year by inspectors appointed under the Fertilizers Act, and analysed and checked with a guarantee of the vendor as found on the package. These comparisons are published annually by the Department of Agriculture in the form of a special bulletin which is in popular use by farmers throughout Canada as a guide to buying.

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

1. The Fertilizers Act.
2. Fertilizer Analyses (small).
3. Manures and Fertilizers.
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.





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