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CANADA

DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY

MINING, METALLURGICAL & CHEMICAL BRANCH

THE

FERTILIZER INDUSTRY

IN

CANADA

1936



OTTAWA 1937

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

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S.(Hon.) Chief - Mining, Metallurgical and Chemical Branch: W. H. Losee, B.Sc. Statistics - Metal and Chemical Products: H. McLeod, B.Sc.

ANNUAL INDUSTRY REPORT

CHEMICALS AND ALLIED PRODUCTS GROUP

THE FERTILIZER MANUFACTURING INDUSTRY, 1936.

Production by plants in Canada engaged principally in the manufacture of fertilizers was valued at \$7,075,831 in 1936, an improvement of 16 per cent over the \$6,075,616 reported for 1935. In addition there was a production of 198,342 tons of fertilizer materials valued at \$4,290,404 in 1936 and 175,071 tons at \$3,914,621 in 1935, by establishments which were classified to other industrial groups.

During 1936 only 20 plants in Canada produced fertilizers as their major products and of these 7 were in Ontario, 4 in Quebec, 3 in New Brunswick, 3 in British Columbia, 2 in Nova Scotia and 1 in Prince Edward Island. Capital employed dropped to \$14,800,141 from \$15,646,828 in 1935. The number of workers also declined to 930 from 996 and the pay-roll fell off to \$1,196,286 from \$1,239,337.

The total production of mixed fertilizers from all industries amounted to 175,703 tons worth \$4,222,587 at the factories in 1936, this total including 158,111 tons at \$3,754,139 made by plants in the fertilizer manufacturing industry and 16,518 tons at \$459,518 made in the meat-packing plants and glue factories. In 1935 the corresponding total was 145,844 tons at \$3,442,017 and in 1934 the output amounted to 138,750 tons at \$3,517,193.

Superphosphate was manufactured in 1936 by Canadian Industries Limited at Beloeil, P. Q., Hamilton, Ont. and New Westminster, B. C., and by the Consolidated Mining and Smelting Co. of Canada Ltd., at Trail, B. C.; the output figures are not published separately since there were only two producers.

Associate sulphate was made by the Consolidated Mining and Smelting Co. at Trail, B. C., and also by the following coke manufacturers: Algoma Steel Corporation Ltd. at Sault Ste Marie, Ont.; Dominion Steel and Coal Corporation Ltd. at Sydney, N. S.; Hamilton By-Product Coke Ovens, Limited at Hamilton, Ont.; Montreal Coke & Manufacturing Company at Montreal, P. Q., and the Steel Company of Canada Limited at Hamilton, Ont. Production during the calendar year 1936 amounted to 99,783 tons, imports totalled 5,729 tons and exports amounted to 85,835 tons.

Ammonium phosphate was made by the Consolidated Mining & Smelting Co. at Trail, B. C., and the Electric Reduction Company of Canada Ltd., at Buckingham, P. Q.

A special survey of the fertilizer trade in Canada during the fertilizer year ended June 30, 1937, has been completed by the Dominion Bureau of Statistics and the results have been published in a special report which may be obtained from the Bureau at a cost of 25 cents. Summary figures on the salesof fertilizers have been reprinted in Tables 14 and 15 of this bulletin.

Table 1 - PRINCIPAL STATISTICS OF THE FERTILIZER MANUFACTURING INDUSTRY, 1929 - 1936.

		A				The second secon
No. of plants	Capital employed	number of em- ployees	Salaries and wages	Cost of fuel and electricity	Cost of materials at works	Gross selling value of products at works
	\$		\$	\$	\$	\$
12	2,991,783	251	265,650	17,386	1,450,253	2,258,780
14	4,139,498	261	262,928	18,889	1,647,478	2,504,573
18	15,615,119	636	848,256	44,972	3,053,016	4,251,840
19	17,083,478	748	1,097,812	49,010	2,616,333	4,006,187
20	15,918,787	667	776,647	322,849	2,796,726	4,286,051
20	15,452,733	776	946,178	348,716	3,647,660	5,467,154
19	, -	996	1,239,337	344,131	4,362,594	6,075,616
20	14,800,141	930	1,196,286	443,627	4,996,084	7,075,831
	12 14 18 19 20 20	\$ 12 2,991,783 14 4,139,498 18 15,615,119 19 17,083,478 20 15,918,787 20 15,452,733 19 15,646,828	\$ 12 2,991,783 251 14 4,139,498 261 18 15,615,119 636 19 17,083,478 748 20 15,918,787 667 20 15,452,733 776 19 15,646,828 996	\$ \$\\ \bar{12} 2,991,783 \\ 251 \\ 265,650 \\ 14 \\ 4,139,498 \\ 261 \\ 262,928 \\ 18 \\ 15,615,119 \\ 636 \\ 848,256 \\ 19 \\ 17,083,478 \\ 748 \\ 1,097,812 \\ 20 \\ 15,918,787 \\ 667 \\ 776,647 \\ 20 \\ 15,452,733 \\ 776 \\ 946,178 \\ 19 \\ 15,646,828 \\ 996 \\ 1,239,337 \end{and}	plants employed of employees wages electricity \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	plants employed of employees wages electricity at works \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1935 and 1936.

	No. of	s employed	Average number of em- ployees	Salaries and wages	Cost of fuel and electri- city	at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
1935							
New Brunswick	. 3	746,450	69	64,095	1,695	401,739	620,514
		655,401	85	96,390	4,585	526,239	713,551
Quebec	_		287	278,718	8,352	1,264,632	1,798,597
Ontario		2,447,671	470		324,444	1,710,739	2,288,749
British Columbia		11,059,264	4/0	713,061	0249444	1,110,139	2,200,149
Prince Edward Island		738,042	85	87,073	5,055	459,245	654,205
Nova Scotia	· ~!					arian remanda an aranda ara	
CANADA	. 19	15,646,828	996	1,239,337	344,131	4,362,594	6,075,616
1936							
New Brunswick	. 3	608,630	66	70,779	1,711	616,163	828,608
Quebec		868,246	99	132,413	669	840,530	1,152,148
Ontario		2,231,013	277	267,251	5,129	1,396,538	2,102,645
British Columbia		10,416,468	391	630,028	431,241	1,652,667	2,329,795
Prince Edward Island							
Nova Scotia		675,784	97	95,815	4,877	490,186	662,635
CANADA	. 20	14,800,141	930	1,196,286	443,627	4,996,084	7,075,831

				entory val			ng capi-	
		nt value		erials, su			sh, bills	
Provinces		nd, buil		finished				TOTAL
	ings,	machine	ry on	hand, and	stocks	receiva	ble,	CAPITAL
	and e	quipment	in	process		etc。)		EMPLOYE
5 O pp. several (com 1994 (Supplemental-Leaf feet feet feet feet feet feet feet f	Clinical Provident China (art. 1 %	\$		\$		\$		\$
1935						0.00		4
New Brunswick		329,603		184,605		232,		746,45
Quebec		333,685 214,980				106,		655,40
Ontario		917,338		797,178		733,		2,447,67
British Columbia		257,846		676,993		124,		11,059,26
Other provinces		144,696	IN PARTY WAS TAKEN	148,970	Berlin Telephone and the second	444,		738,04
CANADA	11,	983,168		2,022,726		1,640,	934	15,646,82
9 3 6								
New Brunswick		233,312		135,267		240,		608,63
Quebec		377,867		310,587		179,		868,24
Ontario		895,587		731,917		603,		2,231,01
British Columbia		622,918		677,278		116,		10,416,46
Other provinces		138,501	nga Spikuria in S	125,772	Carl Manual Contraction	411,		675,78
CANADA	11,	268,185	- بلزامد مسامر فا مد	1,980,821	# 1 12 3 and 12 14 10	1,551,	135	14,800,14
Table 4 - EMPLOYER	S. SA	LARIES A	ND WAGE	S, BY PROV	INCES.	1935 and 1	936。	
the second second of the second secon	A	VERAGE N	UMBER O	F EMPLOYEE	S			TOTAL
Provinces	On s	alaries	On	wages		Salaries	Wages	SALARIES
	Male	Female	Male	Female	TOTAL			AND WAGE
1 9 3 5						\$	\$	\$
New Brunswick	. 12	1	55	1	69	90 697	75 A79	64 00
		15	34		85	28,623	35,472	64,09
Quebec		29	163	000	287	61,668	34,722	96,39
Ontario			401	000	470	154,294	124,424	278,71
		9		000	85	132,778	580,283	713,06
Other provinces		5 59	707		2 - 2-7 m - 12 m - 12 m - 21	48,099	38,974	87,07
CANADA	, KET	99			996	425,462	813,875	1,239,33
1 9 3 6	2.3	7	E 2	1	cc	07 660	12 777	70 77
New Brunswick		1	53	1	66	27,662	43,117	70,77
Quebec		14	50	0 0 0	99	81,909	50,504	132,41
Untario ossessos		31	166	0 9 0	277	145,897	121,354	267,25
British Columbia		7	327	000	391	128,935	501,093	630,02
Other provinces		5	70	000	97	48,084	47,731	95,81
CANADA		58	666		930	432,487	763,799	1,196,28
Table 5 - WAGE-EAF	RNERS,	BY MONT	HS, 193	The state of the s				
Months			Male	9 3 Female	5 TOTAL	Male	1 9 Female	3 6 TOTAL
	makin di si ar	and the control of the control		000000000000000000000000000000000000000	**************************************		AND THE PARTY OF T	
lanuary observed			629	1	630	525	1	526
ebruary			600	1	601	534	1	535
darch			686	1	687	601	1	602
April			950	1.	951	873	1	874
lay occasions			,103	1	1,104	1,076	1	1,077
une			717	1	718	573	1	574
			635	1	636	566	1	567
			692	1	693	556	1	557
August						E.C.O.	3	77.7
August		0000	647	1	648	752	1	753
August	00000	0 0 0 0 0	616	1	617	589	1	590
July		0 0 0 0 0	616 665	1	617 666	589 7 0 2	_	590 703
August		0 0 0 0 0	616	1	617	589	1	590

HOURS WORKED PER WEEK, 1936.				TO REGUALR
Regular hours worked Number of				lumber of
per week wage-earners	reguta	er week	wan	re_earners
40 hours or less 411	51-53	houre	The second secon	32
41-43 hours	54 hou	rs		181
44 hours		rs		85
45–47 hours		hours		82
48 hours		rs and over		
	60 nou			190
	of special colors of State Colors			1,616
Table 7 - FUEL AND ELECTRICITY USED, 1			1 9	
	1 9			State of the same and addressed the same and the same and
villas	Quantity Co	st at works	Quantity C	ost at works
Anthonosite conl	0.4	700	00	705
	24		28	
Bituminous coal - Canadian, short ton			2,529	
Imported. short ton	157		139	434
Coke short ton	10	112	11	146
Gasoline Imp. gal.		886		1,064
Kerosene or coal oil Imp. gal. Wood cord	310	100	461	150
Floatricity purchased K W H	003 007 442	220 070	070 000 010	28
Electricity purchased K. W. H.			The second secon	product ages required a six deliberation of the balls and the balls are the balls and the balls and the balls and the balls and the balls are the balls and the balls and the balls are the balls are the balls and the balls are
TOTAL xxx		544,151		445,627
Table 8 - POWER EQUIPMENT, 1935 and 193				
			1	
Kinds				Total rated
STATE STATE AND		ts horse oo	wer of units	horse power
Steam engines and steam turbines		40		40
Gasoline, gas and oil engines	4	55	4	75
Total Primary Equipment				115
Electric motors operated by purchased p	ower. 692	19,201	737	21,734
TOTAL	698	19,296	743	21,849
Table 9 - MATERIALS USED IN THE FERTILI	ZER MANUFACT	HETNO INDUO		
		OUTING THINDS.	TRY, 1935 an	d 1936.
	1 9	3 5	TRY, 1935 an	d 1936. 3 6
Materials	1 9	3 5	1 9	3 6
Materials		3 5	1 9	3 6
Materials Ammonium phosphate	1 9 Quantity Co	3 5 stat works	1 9 Quantity Conshort tons	3 6 ost at works
	Quantity Cos short tons	3 5 st at works	1 9 Quantity C	3 6 ost at works \$ 84,936
Ammonium phosphate	1 9 Quantity Conshort tons 1,232	3 5 st at works \$ 51,386	1 9 Quantity Coshort tons 1,582	3 6 ost at works
Ammonium phosphate	Quantity Cos short tons 1,232 13,311	3 5 st at works \$ 51,386 313,963	1 9 Quantity Co short tons 1,582 14,931	3 6 ost at works \$ 84,936 369,946 3,762
Ammonium phosphate	1 9 Quantity Co. short tons 1,232 13,311 1,919	3 5 st at works \$ 51,386 313,963 3,635	1 9 Quantity Coshort tons 1,582 14,931 2,075	3 6 ost at works \$ 84,936 369,946
Ammonium phosphate	1 9 Quantity Cos short tons 1,232 13,311 1,919 273	3 5 st at works \$ 51,386 313,963 3,635 5,604	1 9 Quantity Coshort tons 1,582 14,931 2,075 479	3 6 ost at works \$ 84,936 369,946 3,762 8,521
Ammonium phosphate	1 9 Quantity Cosshort tons 1,232 13,311 1,919 273 1,956	3 5 st at works \$ 51,386 313,963 3,635 5,604 56,273	1 9 Quantity Coshort tons 1,5820 14,931 2,0750 4790 2,4370	3 6 ost at works \$ 84,936 369,946 3,762 8,521 69,570
Ammonium phosphate	1 9 Quantity Cosshort tons 1,232 13,311 1,919 273 1,956	3 5 st at works \$ 51,386 313,963 3,635 5,604 56,273 4	1 9 Quantity Coshort tons 1,582 14,931 2,075 479 2,437 173	3 6 ost at works \$ 84,936 369,946 3,762 8,521 69,570 4,952 7,704
Ammonium phosphate	1 9 Quantity Cos short tons 1,232 13,311 1,919 273 1,956	3 5 st at works \$ 51,386 313,963 3,635 5,604 56,273 4 4,631	1 9 Quantity Coshort tons 1,582 14,931 2,075 4790 2,437 173 176	3 6 ost at works \$ 84,936 369,946 3,762 8,521 69,570 4,952 7,704 16,749
Ammonium phosphate Ammonium sulphate Basic slag Bone meal and bone flour Calcium cyanamide Calcium nitrate and nitrochalk Dried blood Fish meal or scrap Lime or land plaster	1 9 Quantity Cos short tons 1,232 13,311 1,919 273 1,956 97 294	3 5 st at works \$ 51,386 313,963 3,635 5,604 56,273 4 4,631 9,870	1 9 Quantity Coshort tons 1,5820 14,931 2,0750 4790 2,4370 173 1760 5150	3 6 ost at works \$ 84,936 369,946 3,762 8,521 69,570 4,952 7,704 16,749 9,404
Ammonium phosphate Ammonium sulphate Basic slag Bone meal and bone flour Calcium cyanamide Calcium nitrate and nitrochalk Dried blood Fish meal or scrap Lime or land plaster Kainite and potash manure salts Phosphate rock	1 9 Quantity Cos short tons 1,232 13,311 1,919 273 1,956 97 294 1,775 3,322 74,507	3 5 st at works \$ 51,386 313,963 3,635 5,604 56,273 4 4,631 9,870 6,589 28,689 610,118	1 9 Quantity Coshort tons 1,5820 14,9310 2,07500 4790 2,4370 173 1760 5150 2,721	3 6 ost at works \$ 84,936 369,946 3,762 8,521 69,570 4,952 7,704 16,749 9,404 9,569 438,948
Ammonium phosphate Ammonium sulphate Basic slag Bone meal and bone flour Calcium cyanamide Calcium nitrate and nitrochalk Dried blood Fish meal or scrap Lime or land plaster Kainite and potash manure salts Phosphate rock Muriate of potash	1 9 Quantity Cos short tons 1,232 13,311 1,919 273 1,956 97 294 1,775 3,322 74,507 16,054	3 5 st at works \$ 51,386 313,963 3,635 5,604 56,273 4 4,631 9,870 6,589 28,689 610,118 378,239	1 9 Quantity C short tons 1,582 14,931 2,075 479 2,437 173 176 515 2,721 833 60,924 17,251	3 6 ost at works \$ 84,936 369,946 3,762 8,521 69,570 4,952 7,704 16,749 9,404 9,569 438,948 442,249
Ammonium phosphate Ammonium sulphate Basic slag Bone meal and bone flour Calcium cyanamide Calcium nitrate and nitrochalk Dried blood Fish meal or scrap Lime or land plaster Kainite and potash manure salts Phosphate rock Muriate of potash Sulphate of potash	1 9 Quantity Cos short tons 1,232 13,311 1,919 273 1,956 97 294 1,775 3,322 74,507 16,054 1,829	3 5 st at works \$ 51,386 313,963 3,635 5,604 56,273 4 4,631 9,870 6,589 28,689 610,118 378,239 63,163	1 9 Quantity C short tons 1,582 \(14,931 \) 2,075 \(4790 \) 2,437 \(173 \) 176 \(515 \) 2,721 833 60,924 \(17,251 \) 2,551	3 6 ost at works \$ 84,936 369,946 3,762 8,521 69,570 4,952 7,704 16,749 9,404 9,569 438,948 442,249 88,854
Ammonium phosphate Ammonium sulphate Basic slag Bone meal and bone flour Calcium cyanamide Calcium nitrate and nitrochalk Dried blood Fish meal or scrap Lime or land plaster Kainite and potash manure salts Phosphate rock Muriate of potash Sulphate of potash Sodium nitrate	1 9 Quantity Cos short tons 1,232 13,311 1,919 273 1,956 97 294 1,775 3,322 74,507 16,054 1,829 3,774	3 5 st at works \$ 51,386 313,963 3,635 5,604 56,273 4 4,631 9,870 6,589 28,689 610,118 378,239 63,163 99,429	1 9 Quantity C short tons 1,582 14,931 2,075 479 2,437 173 176 515 2,721 833 60,924 17,251 2,551 3,896	3 6 ost at works \$ 84,936 369,946 3,762 8,521 69,570 4,952 7,704 16,749 9,404 9,569 438,948 442,249 88,854 91,609
Ammonium phosphate Ammonium sulphate Basic slag Bone meal and bone flour Calcium cyanamide Calcium nitrate and nitrochalk Dried blood Fish meal or scrap Lime or land plaster Kainite and potash manure salts Phosphate rock Muriate of potash Sulphate of potash Sodium nitrate Superphosphate, 16% and 20%	1 9 Quantity Cosshort tons 1,232 13,311 1,919 273 1,956 97 294 1,775 3,322 74,507 16,054 1,829 3,774 87,823	3 5 st at works \$ 51,386 313,963 3,635 5,604 56,273 4 4,631 9,870 6,589 28,689 610,118 378,239 63,163 99,429 990,793	1 9 Quantity C short tons 1,582 14,931 2,075 479 2,437 173 176 515 2,721 833 60,924 17,251 2,551 3,896 (96,676	3 6 ost at works \$ 84,936 369,946 3,762 8,521 69,570 4,952 7,704 16,749 9,404 9,569 438,948 442,249 88,854 91,609 (1,079,304
Ammonium phosphate Ammonium sulphate Basic slag Bone meal and bone flour Calcium cyanamide Calcium nitrate and nitrochalk Dried blood Fish meal or scrap Lime or land plaster Kainite and potash manure salts Phosphate rock Muriate of potash Sulphate of potash Sodium nitrate Superphosphate, 16% and 20% Superphosphate, 45%	1 9 Quantity Cosshort tons 1,232 13,311 1,919 273 1,956 97 294 1,775 3,322 74,507 16,054 1,829 3,774 87,823 705	3 5 st at works \$ 51,386 313,963 3,635 5,604 56,273 4 4,631 9,870 6,589 28,689 610,118 378,239 63,163 99,429 990,793 23,856	1 9 Quantity C short tons 1,582 14,931 2,075 479 2,437 173 176 515 2,721 833 60,924 17,251 2,551 3,896 (96,676 839	3 6 ost at works \$ 84,936 369,946 3,762 8,521 69,570 4,952 7,704 16,749 9,404 9,569 438,948 442,249 88,854 91,609 (1,079,304 23,918
Ammonium phosphate Ammonium sulphate Basic slag Bone meal and bone flour Calcium cyanamide Calcium nitrate and nitrochalk Dried blood Fish meal or scrap Lime or land plaster Kainite and potash manure salts Phosphate rock Muriate of potash Sulphate of potash Sodium nitrate Superphosphate, 16% and 20% Superphosphate, 45% Sulphuric acid, 660 Be Tankage	1 9 Quantity Cosshort tons 1,232 13,311 1,919 273 1,956 97 294 1,775 3,322 74,507 16,054 1,829 3,774 87,823 705	3 5 st at works \$ 51,386 313,963 3,635 5,604 56,273 4 4,631 9,870 6,589 28,689 610,118 378,239 63,163 99,429 990,793	1 9 Quantity C short tons 1,582 14,931 2,075 479 2,437 173 176 515 2,721 833 60,924 17,251 2,551 3,896 (96,676	3 6 ost at works \$ 84,936 369,946 3,762 8,521 69,570 4,952 7,704 16,749 9,404 9,569 438,948 442,249 88,854 91,609 (1,079,304
Ammonium phosphate Ammonium sulphate Basic slag Bone meal and bone flour Calcium cyanamide Calcium nitrate and nitrochalk Dried blood Fish meal or scrap Lime or land plaster Kainite and potash manure salts Phosphate rock Muriate of potash Sulphate of potash Sulphate of potash Sodium nitrate Superphosphate, 16% and 20% Superphosphate, 45% Sulphuric acid, 660 Be Tankage Whale meat, bone and blood	1 9 Quantity Cos short tons 1,232 13,311 1,919 273 1,956 97 294 1,775 3,322 74,507 16,054 1,829 3,774 87,823 705 135,456	3 5 st at works \$ 51,386 313,963 3,635 5,604 56,273 4 4,631 9,870 6,589 28,689 610,118 378,239 63,163 99,429 990,793 23,856 1,300,627 22,015 526	1 9 Quantity C short tons 1,582 14,931 2,075 479 2,437 173 176 515 2,721 833 60,924 17,251 2,551 3,896 (96,676 839 142,646	3 6 ost at works \$ 84,936 369,946 3,762 8,521 69,570 4,952 7,704 16,749 9,404 9,569 438,948 442,249 88,854 91,609 (1,079,304 23,918 1,399,320 36,907
Ammonium phosphate Ammonium sulphate Basic slag Bone meal and bone flour Calcium cyanamide Calcium nitrate and nitrochalk Dried blood Fish meal or scrap Lime or land plaster Kainite and potash manure salts Phosphate rock Muriate of potash Sulphate of potash Sulphate of potash Sodium nitrate Superphosphate, 16% and 20% Superphosphate, 45% Sulphuric acid, 660 Be Tankage Whale meat, bone and blood All other materials	1 9 Quantity Cosshort tons 1,232 13,311 1,919 273 1,956 97 294 1,775 3,322 74,507 16,054 1,829 3,774 87,823 705 135,456 1,164 18	3 5 st at works \$ 51,386 313,963 3,635 5,604 56,273 4 4,631 9,870 6,589 28,689 610,118 378,239 63,163 99,429 990,793 23,856 1,300,627 22,015 526 91,150	1 9 Quantity C short tons 1,582 14,931 2,075 479 2,437 173 176 515 2,721 833 60,924 17,251 2,551 3,896 (96,676 839 142,646 1,660	3 6 ost at works \$ 84,936 369,946 3,762 8,521 69,570 4,952 7,704 16,749 9,404 9,569 438,948 442,249 88,854 91,609 (1,079,304 23,918 1,399,320 36,907 418,582
Ammonium phosphate Basic slag Bone meal and bone flour Calcium cyanamide Calcium nitrate and nitrochalk Dried blood Fish meal or scrap Lime or land plaster Kainite and potash manure salts Phosphate rock Muriate of potash Sulphate of potash Sulphate of potash Superphosphate, 16% and 20% Superphosphate, 45% Sulphuric acid, 660 Be Tankage Whale meat, bone and blood All other materials Containers (barrels, bags, etc.)	1 9 Quantity Cos short tons 1,232 13,311 1,919 273 1,956 97 294 1,775 3,322 74,507 16,054 1,829 3,774 87,823 705 135,456 1,164 18	3 5 st at works \$ 51,386 313,963 3,635 5,604 56,273 4 4,631 9,870 6,589 28,689 610,118 378,239 63,163 99,429 990,793 23,856 1,300,627 22,015 526 91,150 302,034	1 9 Quantity C short tons 1,582 14,931 2,075 479 2,437 173 176 515 2,721 833 60,924 17,251 2,551 3,896 (96,676 839 142,646 1,660	3 6 ost at works 84,936 369,946 3,762 8,521 69,570 4,952 7,704 16,749 9,404 9,569 438,948 442,249 88,854 91,609 (1,079,304 23,918 1,399,320 36,907 418,582 391,280
Ammonium phosphate Ammonium sulphate Basic slag Bone meal and bone flour Calcium cyanamide Calcium nitrate and nitrochalk Dried blood Fish meal or scrap Lime or land plaster Kainite and potash manure salts Phosphate rock Muriate of potash Sulphate of potash Sulphate of potash Sodium nitrate Superphosphate, 16% and 20% Superphosphate, 45% Sulphuric acid, 660 Be Tankage Whale meat, bone and blood All other materials	1 9 Quantity Cos short tons 1,232 13,311 1,919 273 1,956 97 294 1,775 3,322 74,507 16,054 1,829 3,774 87,823 705 135,456 1,164 18	3 5 st at works \$ 51,386 313,963 3,635 5,604 56,273 4 4,631 9,870 6,589 28,689 610,118 378,239 63,163 99,429 990,793 23,856 1,300,627 22,015 526 91,150	1 9 Quantity C short tons 1,582 14,931 2,075 479 2,437 173 176 515 2,721 833 60,924 17,251 2,551 3,896 (96,676 839 142,646 1,660	3 6 ost at works \$ 84,936 369,946 3,762 8,521 69,570 4,952 7,704 16,749 9,404 9,569 438,948 442,249 88,854 91,609 (1,079,304 23,918 1,399,320 36,907 418,582

Table 10 - PRODUCTS OF THE FERTILIZER MANUFACTURING INDUSTRY, CALENDAR YEARS 1935 and 1936.

NOTE - Figures in this table are for the Fertilizer Manufacturing Industry which includes only the concerns which were engaged chiefly in the manufacture of fertilizers (see directory). Some fertilizers were made also in other industries. (Table 11) For the total output of mixed fertilizers in Canada see Table 12.

Table 11 - PRODUCTION OF FERTILIZERS AND FERTILIZER MATERIALS IN OTHER MANUFACTURING INDUSTRIES, CALENDAR YEARS 1935 and 1936.

1 9 3 5 Industries Selling value Selling value Products Quantity at works Quantity at works short tons \$ short tons \$ Acids, alkalies and salts. Calcium cyanamide 110,037 2,345,988 120,635 2,505,589 Slaughtering and meat- (Mixed fertilizers 12,303 306,707 16.253 451.678 packing(Animal tankage 15,566 536,558 17,269 637,157 637,353 26,828 582,816 1,339 690 13,800 16,770 15,251 75,704 Other fish fertilizer 354 11,328 767 20,690 4.290.404

Table 12 - TOTAL PRODUCTION OF MIXED FERTILIZERS IN CANADA FROM ALL INDUSTRIAL GROUPS, CALENDAR YEARS 1921 - 1936.

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

Calendar Years		Quantity	Selling value at works
		Tons	\$
	1921	46,900	2,399,855
	1922	40,843	1,818,136
	1923	37,587	1,366,343
V.	1924	38,126	1,539,003
1	1925	47,076	1,663,129
	1926	56,888	2,043,093
2/200	1927	72,112	2,552,421
22	1928	76,180	3,017,648
and a	1929	75,164	3,098,567
2000	1930	78,158	2,548,226
1	1931	113,632	3,247,694
	1932	95,857	2,447,407
	1933	106,421	2,777,702
	1934	138,750	3,517,193
	1935	145,844	3,442,017
	1936	175,703	4,222,587

Table 13 - IMPORTS INTO CAMADA AND EXPORTS OF FERTILIZERS AND FERTILIZER MATERIALS

Calendar Years 1935 - 1936.

Calendar	· Years	1935 - 19	A COMPANY OF THE PARTY OF THE P		Andrew Commercial Comm
T T T T T T T T T T T T T T T T T T T	Init of	1 9	3 5	1 9	3 6
	neasure	Quantity	Value	Quantity	Value
			\$		\$
IMPORTS -					
Tankage	ton	934	15,562	1,188	26,358
Bone dust, charred bone, bone ash, bone					
meal, and bone flour	ton	1,322	52,835	2,422	71,978
Fish offal or refuse	ton	898	25,479	512	15,477
Ammonium sulphate	ton	4,280	94,222	5,729	148,956
Basic slag, crushed or ground	ton	8,046	65,100	12,743	96,975
Kainite, and other German potash salts	ton	658		47	1,048
Potash, muriate of, crude	ton	30,415	485,086	29,713	583,155
Potash, sulphate of, crude	ton	2,837	73,098	3,636	104,238
Soda, nitrate of	ton	22,206	559,327	30,604	749,714
Superphosphate	ton	67,204	595,330	96,067	867,666
Fertilizers, compounded or manufactured	,				
not specified elsewhere	ton	15,708	260,872	6,529	163,128
				,	
EXPORTS -					
Tankage	ton	13,902	373,404	14,442	471,008
Bone dust and meal	ton	326	8,258	30	1,249
Fish meal	ton	7,444	245,449	16,004	539,483
Fish offal or refuse	ton	1,139	27,325	684	17,889
Ammonium sulphate	ton	45,055	977,552	85,835	1,805,818
Cyanamide	ton	113,527	2,426,813	127,809	2,697,897
Fertilizers, manufactured	ton	33,008	839,355	39,945	1,140,290

Table 14 - TOTAL SALES IN CANADA OF FERTILIZER MATERIALS AND MIXED FERTILIZERS FOR THE YEARS ENDED JUNE 30, 1936 and 1937.

	Fertilizer	Materials	Mixed Fer	tilizers	
Provinces	1936	1937	1936	1937	
	short tons	short tons	short tons	short tons	
Prince Edward Island	10,167	10,759	7,759	11,292	
Nova Scotia	12,907	11,161	21,463	23,421	
New Brunswick	12,897	16,133	14,490	19,699	
Quebec	24,298	22,526	27,438	36,217	
Ontario	23,688	30,206	60,261	89,781	
Manitoba, Saskatchewan and Alberta	8,350	9,110	88	170	
British Columbia	4,172	5,974	5,862	7,694	
CANADA	96,479	105,869	137,361	188,274	
Sold for Export	190,268	263,141	17,994	26,334	
GRAND TOTAL	286,747	369,010	155,355	214,608	

Table 15 - SALES OF FERTILIZERS IN CANADA EXCEPT FOR MANUFACTURING PURPOSES, DURING THE YEAR ENDED JUNE 30, 1937.

				(short t	ons)					W. III	
Fertilizers	P.E.I.	N.S.	N.B.	Que.	Ont.	Man., Sask., and Alta	B.C.	TOTAL SOLD IN CANADA	EXPORTED FROM CANADA	GRAN	
Nitrate of soda	247	2,211	1,783	243	857	23	228	5,592 V	187	5,779	
Sulphate of ammonia	2,133	1,335	1,625	2,572	913	131	842	9,551 √	72,495	82,046	
Cyanamide	000	547	2	78	911		132	1,670 ~	,	152,938	
Nitrochalk	13	3	0 0 0	000		• • •		16	31	47	
Calcium nitrate	0 • 0	0 0 0			0 0 0		12	12		12	
Superphosphate	6,555	2,102	8,739	14,389	22,748	535	1,219	56,287 V	9,103	65,390	- Common
Natural phosphate rock	1	8	0.00	26	98	0 0 0	21	154 V		154	
Basic slag	000	4,436	1,170	2,757		0 8 9	27	8,390 4	9	8,399	0.000
Bone meal or bone flour	0 • •	118	40	41	659	182	720	1,760 ₹	33	1,793	
Muriate of potash	1,805	367	2,670	2,044	1,276		448	8,610	96	8,706	
Sulphate of potash	5	Q • •	56	139	135	5	119	459 ✓		475	
Tankage	000	3	31	95	463	477	164	1,233 V	917	2,150	-
Sheep manure	0 . 0	29	1	140	551	29	72	822 4		822	
Dried blood	0.00	900	000	0.00	57	97	170	324 V	106	430	-
Whale products	a • •	0 0 0		000			557	557	376	933	
Fish meal			15	000		0 0 0	665	680 ✓	3,362	4,042	
Ammonium phosphate	0			000	1,162	7,629	537	9,328 W	25,142	34,470	
Other fertilizer materials	0 • 0	2	1	2	376		41	424	• • •	424	
Total fertilizers	10,759	11,161	16,133	22,526	30,206	9,110	5,974	105,869	263,141	369,010	-
Total mixed fertilizers .	11,292	23,421	19,699	36,217	89,781		7,694	188,274	26,334	214,608	
GRAND TOTAL, 1937	22,051	34,582	35,832	58,743	119,987	9,280	13,668	294,143	289,475	583,618	
GRAND TOTAL, 1936	17,926	34,370	27,387	51,736	83,949	8,438	10,034	233,840	208,262	442,102	

DIRECTORY OF FIRMS INCLUDED IN THE FERTILIZER MANUFACTURING INDUSTRY, 1936.

NOTE - This Directory gives only the names of the firms which have been included in the Fertilizer Manufacturing Industry, and is not intended to be a complete list of the concerns which manufacture mixed fertilizers or fertilizer materials.

Names of Firms

PRINCE EDWARD ISLAND - Island Fertilizer Co. Ltd.

NOVA SCOTIA Colonial Fertilizer Company
Canadian Industries Limited

NEW BRUNSWICK Canada Packers Limited
International Fertilizers Limited
Summers Fertilizer Co., Inc.

QUEBEC Canadian Industries Limited
International Fertilizers Limited

Saguenay Fertilizers Co. Standard Fertilizer Co. of 3 Rivers Ltd.

ONTARIO —
Agricultural Chemicals Limited
Canada Packers Limited
Canadian Fertilizers Company Ltd.
Canadian Industries Limited
Scottish Fertilizers Limited
William Stone Sons, Limited, and
National Fertilizers Limited
Witts Fertilizer Works

BRITISH COLUMBIA Canadian Industries Limited
Consolidated Mining and Smelting
Co. of Canada, Ltd.
Globe Fertilizer Co. Ltd.

Location of Plants

Charlottetown

Nesbitt St., Windsor Pier 9, Halifax

Bayside Ave., East Saint John East Saint John Prince William St., St. Stephen

Belloeil
National Harbours Board,
Shed 29, Quebec
Riviere du Moulin, Chicoutimi
2211 Bellefeuille St., Three Rivers

Marsh St., Port Hope St. Clair Ave. W., Toronto King St. E., Chatham Burlington & Ottawa Sts., Hamilton Welland

Ingersoll Norwich

New Westminster

Trail Foot Crompton Road, Vancouver.



