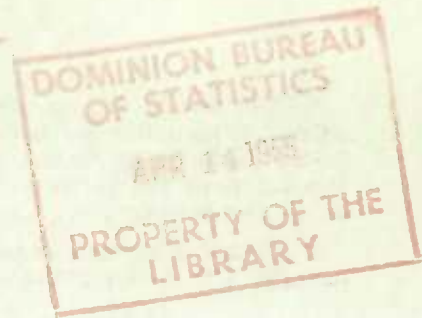


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CANADA



THE FERTILIZERS INDUSTRY

1953

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NOTICE

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

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

- I—General Review of the Manufacturing Industries, \$1.50
- II—The Manufacturing Industries of Canada, (7 sections, as follows:)

 - Section A. Summary for Canada, 25¢
 - Section B. Atlantic Provinces, 25¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 25¢
 - 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—Textiles
- VIII—Wood and Paper Products
- IX—Printing Trades
- X—Iron and Steel Products
- XI—Transportation Equipment
- XII—Non-ferrous Metal Products
- XIII—Electrical Apparatus and Supplies
- XIV—Non-metallic Mineral Products
- XV—Products of Petroleum and Coal
- XVI—Chemicals and Allied Products
- XVII—Miscellaneous Manufactures

The present report belongs in Part XVI, 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

1953

Factory shipments by factories in Canada which were engaged principally in the manufacture of fertilizers were valued at \$84,354,369 in 1953 compared with \$78,743,491 in 1952. In addition, there was a production of 144,843 tons of cyanamid (excluding cyanamid for non-agricultural purposes), ammonium sulphate, mixed fertilizers and fish fertilizers valued at \$7,287,809 by establishments which were classified to other industrial groups. The quantity of fish used as a fertilizer in 1953 amounted to 29,474 barrels valued at \$39,167.

Forty plants were occupied chiefly in the manufacture of fertilizers in 1953, there being 18 in Ontario, 7 in Quebec, 6 in British Columbia, 3 in New Brunswick, 3 in Nova Scotia, 2 in Prince Edward Island and 1 in Alberta. Workers in these establishments declined from 3,205 in 1952 to 3,199 in 1953 although salaries and wages increased from \$11,325,300 to \$11,511,643.

Factory shipments of mixed fertilizers in 1953, from all industries, amounted to 694,600 tons worth \$32,751,000 and included 687,000 tons at \$32,324,000 made by plants in the fertilizer manufacturing industry and 7,000 tons at \$427,000 made in the meat-packing, oils and fats and adhesives industries. In 1952 the corresponding total was 648,800 tons at \$30,364,000 and in 1951 it was 696,600 tons at \$29,193,000.

Superphosphate was manufactured in 1953 by Canadian Industries Limited and Green Valley Fertilizer and Chemical Co. Ltd. The former had works at McMasterville, Quebec, and Hamilton, Ontario, while the latter operated a plant at New Westminster, British Columbia. Ammonium nitrate (fertilizer grade) was manufactured in 1953 by the North American Cyanamid Limited (Welland Works) at Niagara Falls in Ontario, and by Consolidated Mining and Smelting Company of Canada Limited at Trail, British Columbia, and at Calgary, Alberta. The output figures are not published separately since there were only two producers in each instance.

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 Limited at Salut Ste. Marie, Ontario; Dominion Iron and Steel Ltd, at Sydney, Nova Scotia; Hamilton By-Products Coke Ovens Limited at Hamilton, Ontario; Montreal Coke and Manufacturing Company at Montreal, Quebec; and the Steel Company of Canada Limited at Hamilton, Ontario. Factory shipments during the calendar year 1953 amounted to 186,540 tons; imports totalled 21,254 tons, and exports amounted to 147,371 tons. Ammonium phosphate was made only by the Consolidated Mining and Smelting Company of Canada Limited at Trail, British Columbia, and Kimberley, British Columbia.

A special survey of the fertilizer trade in Canada during the fertilizer year ended June 30, 1954, 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 6-10 of this bulletin. A total of 811,641 tons of mixtures and materials was sold in Canada during the year ended June 30, 1954, compared with 819,303 tons during the preceding twelve-month period.

TABLE 1. Principal Statistics of the Fertilizers Industry, 1949-1953

Year	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1949.....	32	3,269	9,004,943	1,772,400	31,671,468	67,428,067
1950.....	36	3,253	9,422,571	1,996,118	33,349,706	68,996,819
1951.....	39	3,218	10,310,069	1,766,565	35,294,282	74,488,720
1952.....	39	3,205	11,325,300	1,887,038	38,450,277	78,743,491 ¹
1953.....	40	3,199	11,511,643	1,948,620	39,310,484	84,354,369 ¹
Per cent change, 1953 from 1952.....	-	-	+ 1.6	+ 3.3	+ 2.2	+ 7.1

1. Factory shipments since 1952. The inventory value of finished products at plant at end of 1952 amounted to \$4,757,000 and at end of 1953 to \$5,714,000.

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

TABLE 2. Principal Statistics, by Provinces, 1952 and 1953

Province	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Value of factory shipments
			\$	\$	\$	\$
1952						
Prince Edward Island.....	2	99	225,369	19,949	2,615,437	3,816,490
Nova Scotia.....	3					
New Brunswick.....	3	135	383,316	47,406	2,893,957	3,998,476
Quebec.....	7	413	1,396,746	67,087	4,935,267	6,929,403
Ontario.....	18	969	3,100,608	892,785	16,016,078	25,830,583
Alberta.....	1	1,589	6,219,261	859,811	11,989,538	38,168,539
British Columbia.....	5					
Canada.....	39	3,205	11,325,300	1,887,038	38,450,277	78,743,491
1953						
Prince Edward Island.....	2	93	233,315	19,594	2,555,501	3,834,857
Nova Scotia.....	3					
New Brunswick.....	3	133	402,736	46,768	3,864,728	5,455,513
Quebec.....	7	409	1,394,902	67,645	4,352,707	7,178,001
Ontario.....	18	970	3,193,258	886,147	16,410,611	26,402,793
Alberta.....	1	1,594	6,287,432	928,466	12,126,937	41,483,206
British Columbia.....	6					
Canada.....	40	3,199	11,511,643	1,948,620	39,310,484	84,354,369

TABLE 3. Products of the Fertilizers Industry, Calendar Years, 1952 and 1953

Product	1952		1953	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
	Tons	\$	Tons	\$
Mixed fertilizers.....	643,689	30,043,818	687,569	32,324,090
Superphosphate, ammonium nitrate (fertilizer grade), ammonium phosphate and ammonium sulphate (completely manufactured) ¹	862,473	46,344,518	861,525	48,865,589
Superphosphate, milled and screened only:				
16%-18% P ₂ O ₅	2,019	72,210	1,035	35,874
20% P ₂ O ₅	11,148	412,660	13,438	484,539
Ammonium sulphate, milled and screened only.....	562	37,830	574	38,173
Muriate of potash, milled and screened only:				
50% K ₂ O.....	988	55,475	262	14,564
60% K ₂ O.....	740	43,680	1,288	70,366
All other products.....	-	1,733,300	-	2,521,174
Total for fertilizers industry.....	-	78,743,491	-	84,354,369
Fertilizers made in other industries (cyanamid, ammonium sulphate, mixtures, etc.).....	-	12,377,126	-	7,287,809
Total value of all fertilizers produced².....	-	91,120,617	-	91,642,178

1. Each of these products was made by only one or two firms in this industry, hence the production figures cannot be shown separately.

2. Total for 1953 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, 1952 and 1953

Material	1952		1953	
	Quantity	Cost at works	Quantity	Cost at works
	Short tons	\$	Short tons	\$
Ammonia, anhydrous	65,924	3,242,451	61,166	3,041,857
Ammonia liquor	—	1,540,046	—	1,589,738
Ammonium nitrate	6,518	527,777	7,199	595,314
Ammonium phosphate:				
11-48-0	7,056	672,820	5,137	510,311
16-20-0	1,995	117,140	1,695	96,755
Ammonium sulphate (sulphate of ammonia)	31,499	1,555,767	42,332	2,055,856
Bone meal and bone flour	86	7,104	55	4,167
Borax	418	24,898	173	15,008
Calcium cyanamide (cyanamid)	1,268	96,067	2,141	143,238
Coke (except for fuel)	86,398	1,466,386	80,538	1,451,952
Diatomaceous earth	7,683	371,124	8,643	427,881
Dried blood and blood meal	51	5,555	62	6,202
Limestone	29,512	117,802	21,438	89,431
Lime or land plaster	578	12,473	1,153	21,505
Magnesium oxide (all forms, including brucite, mag 70, etc.)	1,464	62,732	2,011	104,912
Magnesium sulphate	50	3,811	471	17,023
Phosphate rock	418,495	6,142,962	416,714	6,063,341
Potassium chloride (muriate of potash):				
50% K ₂ O	12,623	432,065	15,723	429,634
60% K ₂ O	90,438	3,499,986	95,669	3,470,118
Potassium nitrate (nitrate of potash)	59	13,280	6	1,441
Potassium sulphate (sulphate of potash)	8,978	449,723	9,868	483,702
Potassium magnesium sulphate (sulphate of potash magnesia)	1,509	45,431	1,550	45,144
Sand	40,034	86,915	38,698	98,849
Sodium nitrate (nitrate of soda)	93	6,954	110	7,424
Sulphuric acid, 100%	410,580	3,153,629	485,601	2,913,621
Superphosphate:				
16-18% P ₂ O ₅	23,360	479,373	44,518	1,080,208
20% P ₂ O ₅	309,612	7,903,901	279,690	6,930,678
38-48% P ₂ O ₅	9,494	585,445	20,369	1,048,614
Ammoniated-3-18-0	393	16,114	356	13,028
Tankage	130	7,571	58	3,605
Urea	255	34,799	628	49,921
All other materials	—	1,614,170	—	2,073,877
Containers and shipping materials	—	4,165,006	—	4,426,229
Total	—	38,450,277	—	39,310,484

TABLE 5. Total Production¹ of Mixed Fertilizers, from All Industrial Groups, Calendar Years 1944-1953

Year	Quantity	Selling value	Year	Quantity	Selling value
	Tons	\$		Tons	\$
1944	542,500	15,586,000	1949	661,100	24,794,000
1945	539,500	16,256,000	1950	669,930	26,519,000
1946	597,900	17,956,000	1951	696,600	29,193,000
1947	673,800	21,999,000	1952	648,800	30,364,000
1948	650,200	22,738,000	1953	694,600	32,751,000

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. Sales of Fertilizers, Except for Manufacturing Purposes, During the Year Ended June 30, 1954

Kind	New- found- land	Prince Edward Island	Nova Scotia	New Brun- swick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Total sold in Canada
	Short tons										
Fertilizer materials											
Nitrate of soda	246	—	5	—	84	605	—	—	—	15	955
Sulphate of ammonia	28	316	158	42	210	1,159	26	40	700	2,302	4,981
Cyanamide	—	5	49	4	23	2,897	28	1	1	146	3,154
Ammonium nitrate	93	349	702	242	552	13,357	52	135	1,782	2,753	20,017
Ammonium phosphate - 11-48-0	—	—	—	—	7	2,713	16,450	22,433	21,774	1,064	64,496
16-20-0	—	—	—	—	—	168	4,973	1,897	3,980	3,356	14,374
Superphosphate - 20% P ₂ O ₅	15	299	1,044	369	7,656	17,651	1	—	15	1,786	28,836
45% P ₂ O ₅	—	—	—	—	13	25	—	—	—	65	103
Natural phosphate rock	—	—	—	—	4,591	260	—	—	2	107	4,960
Basic slag	—	—	—	—	1,099	—	—	—	—	—	1,099
Bone meal, bone flour, etc.	—	—	52	8	66	534	25	—	25	832	1,542
Muriate of potash - 50% K ₂ O	—	—	—	—	14	95	—	—	—	—	109
60% K ₂ O	1	48	65	47	296	3,899	5	—	—	603	4,964
Sulphate of potash	22	—	5	—	3	290	1	—	—	222	543
Tankage	—	—	—	—	—	—	—	—	—	246	246
Sheep manure	—	—	93	—	—	935	32	—	—	135	1,662
Dried blood	—	—	—	—	—	3	—	—	2	122	127
Sewage sludge	—	—	—	—	69	5,303	—	—	2	380	5,754
Other fertilizer materials ¹	—	—	3	2	1,233	1,039	—	—	1	281	2,559
Total materials	405	1,017	2,176	714	16,383	50,938	21,593	24,556	28,284	14,415	160,481
Mixed fertilizers (see Table 7)	4,044	42,447	25,947	63,534	122,828	375,673	470	83	136	15,998	651,160
Total - 1953-54	4,449	43,464	28,123	64,248	139,211	426,611	22,063	24,639	28,420	30,413	811,641
Total - 1952-53 - Materials	395	930	2,114	663	12,039	47,811	31,381	33,203	36,190	14,872	179,600
Mixtures	4,451	48,619	28,229	69,451	119,407	351,569	490	107	103	17,777	640,203
Total	4,846	49,549	30,343	70,114	131,446	399,380	31,871	33,312	36,293	32,649	819,803

1. Lime has not been included.

TABLE 7. Mixed Fertilizers Sold During Year Ended June 30, 1954

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										
0	9	12	—	—	—	—	581	—	—	—	581	—
0	12	12	—	—	—	—	4	8,391	—	—	8,395	—
0	12	20	—	—	—	—	11	7,512	—	405	7,928	—
0	14	14	—	—	—	—	—	669	—	—	669	17
0	16	8	—	—	—	—	3,544	6,326	—	—	9,870	—
0	20	20	—	—	3	—	1	115	—	—	119	475
2	8	16	—	—	—	—	3,396	104	—	—	3,500	—
2	10	8	—	—	—	—	—	7,110	—	—	7,110	—
2	12	10	—	—	—	—	32,223	149,485	—	17	181,725	22
2	12	16	—	—	—	—	—	6,079	—	—	6,079	—
2	12	20	—	—	—	—	6	5,725	—	8	5,739	—
2	14	8	—	—	—	—	3,194	2,116	—	—	5,310	—
2	15	15	—	—	—	—	—	—	—	1,360	1,360	—
2	16	6	—	—	—	2	24,444	14,940	—	316	39,702	—
3	8	15	—	—	—	—	—	382	—	—	382	—
3	10	8	—	—	—	—	—	967	—	—	967	—
3	12	12	—	—	—	—	435	3,548	—	—	3,983	24
3	12	16	—	—	—	—	12	1,401	—	—	1,413	—
3	15	6	694	5,561	11,373	8,352	—	—	—	—	25,980	43
3	15	10	—	—	—	—	—	2,847	—	—	2,847	—
3	18	0	—	—	—	—	16	998	—	—	1,014	—
3	18	9	—	—	—	—	11	23,351	—	—	23,362	—
3	18	15	—	—	—	—	20	2,219	—	—	2,239	—
4	8	12	—	—	—	—	—	1,783	—	—	1,783	87
4	10	7	—	—	—	—	—	—	—	296	298	—
4	10	8	6	1	33	23	241	128	62	—	494	—
4	10	10	—	—	—	—	—	—	—	5,073	5,073	—
4	12	6	—	—	5	1	1,991	3,742	—	—	5,739	18
4	12	8	—	—	—	11	—	172	—	—	183	—
4	12	10	—	—	—	—	6	30,671	—	—	30,677	—
4	12	16	—	—	—	—	—	485	—	—	485	—
4	24	12	—	—	13	—	118	24,892	3	7	25,033	—
4	24	20	—	—	—	—	—	113	—	—	113	—
5	7	10	—	—	—	—	—	—	—	—	—	416
5	8	7	—	—	—	—	—	—	—	—	—	180
5	8	10	—	—	—	—	2,894	4	—	—	2,898	4
5	10	5	—	—	—	—	550	2,724	270	1	3,544	286
5	10	10	2,649	12,968	9,026	41,973	14,856	1,351	13	—	82,836	4,525
5	10	13	109	22,177	1,797	6,308	31,236	30,242	7	—	92,376	33
6	8	6	—	—	—	—	—	—	—	2,575	2,575	—
6	9	9	—	—	—	725	—	—	—	—	725	2,913
6	9	12	2	250	20	3,918	97	—	—	—	4,287	16,784
6	10	10	—	—	—	—	—	—	—	362	362	—
6	12	6	562	2	2,306	1,193	—	—	—	—	4,063	458
6	12	12	—	—	—	—	695	—	—	—	695	6
6	18	15	—	—	—	—	—	220	—	—	220	—
6	28	25	—	—	—	—	—	—	214	—	214	—
6	30	15	—	—	—	—	—	—	1,173	—	1,173	—
7	7	7	—	—	—	—	166	846	—	—	1,012	1,970
8	9	10	—	—	—	—	—	—	—	—	—	100
8	10	5	—	—	—	—	—	—	1,655	—	1,655	—
8	12	12	—	—	—	33	—	—	—	—	33	4,349
8	12	16	—	—	—	74	—	—	—	—	74	3,872
8	16	16	—	—	—	—	2	—	—	—	2	1,105
8	24	20	—	—	—	—	—	603	—	—	603	—
9	5	7	—	—	—	92	1,674	94	—	—	1,860	23
9	5	10	—	—	120	—	—	—	—	—	120	—
9	9	7	22	13	1,212	63	—	—	—	—	1,310	5
10	5	10	—	—	—	—	86	7,972	—	—	8,058	—
10	6	4	—	—	10	16	183	839	37	46	1,131	30
10	8	4	—	—	—	150	—	—	—	—	150	10
10	10	10	—	—	2	48	42	24,075	—	—	24,187	1,021
10	20	10	—	—	—	—	—	—	—	1,604	1,604	121
10	32	10	—	—	—	—	—	—	237	2	239	—
14	7	10	—	—	—	—	—	—	—	100	100	—
Miscellaneous other mixtures ..			—	1,475	27	52	93	432	60	783	2,922	482
Total			4,044	42,447	25,947	63,534	122,828	375,673	689	15,998	651,160	39,379

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

1. British Columbia sales for this grade included with "Miscellaneous other mixtures".

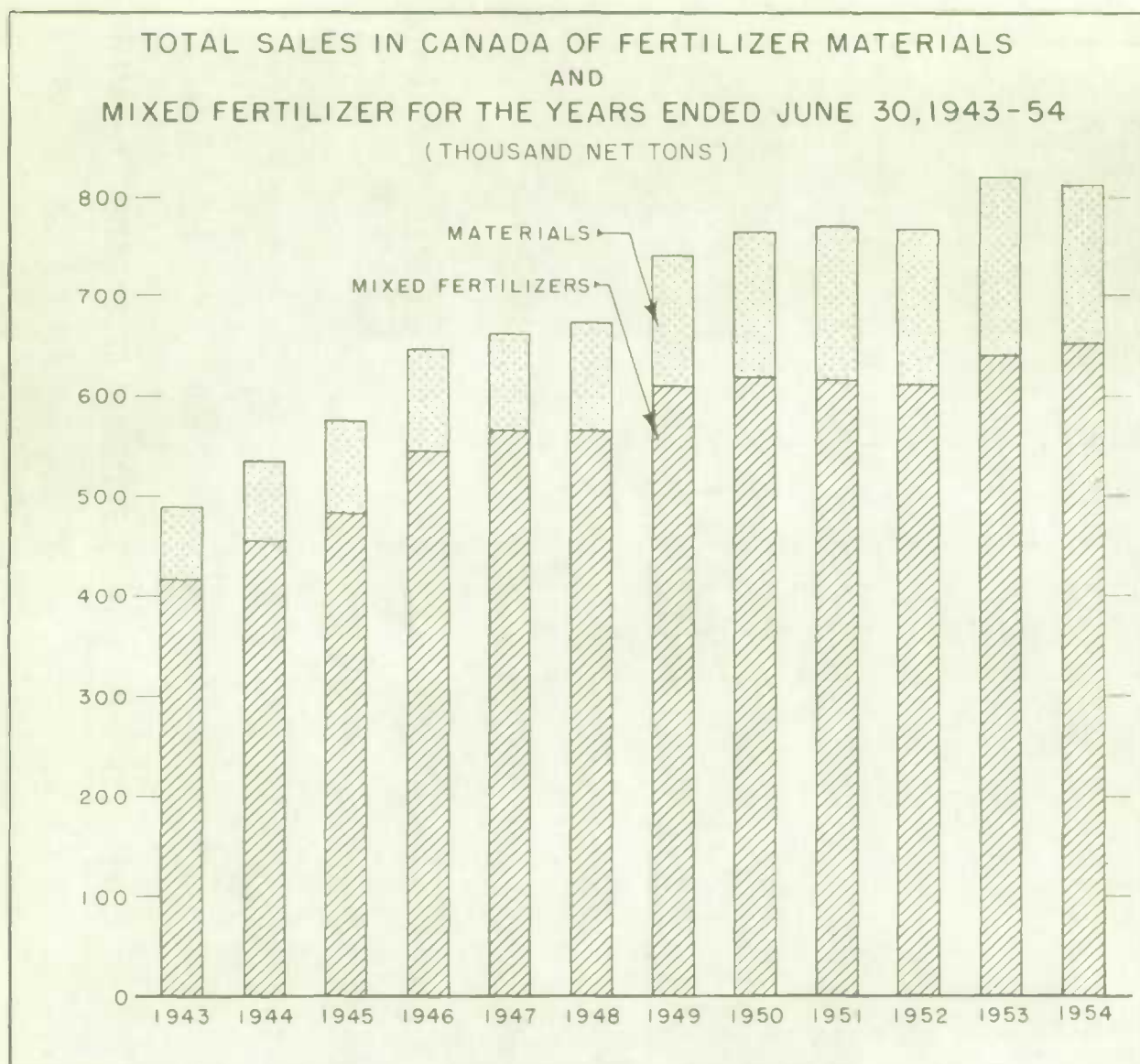


TABLE 8. Nitrogen, Phosphoric Acid and Potash Contained in Fertilizers Sold in Canada During the Year Ended June 30, 1954

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	76	3	11	195	450	357	271	453	368
Prince Edward Island	179	60	29	1,940	4,373	4,544	2,119	4,433	4,573
Nova Scotia	278	222	43	1,145	3,190	2,062	1,423	3,412	2,105
New Brunswick	89	76	28	3,087	6,739	6,234	3,176	6,815	6,262
Quebec	258	3,278	196	4,103	14,591	12,177	4,361	17,869	12,373
Ontario	5,971	5,312	2,545	12,414	48,708	39,669	18,385	54,020	42,214
Manitoba	2,635	8,897	4	33	89	35	2,668	8,986	39
Saskatchewan	2,829	11,171	—	5	9	4	2,834	11,180	4
Alberta	3,761	11,257	—	11	21	9	3,772	11,278	9
British Columbia	2,137	1,832	471	879	2,069	1,550	3,016	3,901	2,021
Total Canada	18,213	42,108	3,327	23,812	80,239	66,641	42,025	122,347	69,968

TABLE 9. Total Sales¹ in Canada of Fertilizer Materials and Mixed Fertilizers, for the Years Ended June 30, 1945-1954

Year ended June 30	Fertilizer materials	Mixed fertilizers	Total sold in Canada
1945	92,026	483,081	575,107
1946	102,639	543,406	646,045
1947	95,870	564,851	660,721
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	156,049	612,496	768,545
1953	179,600	640,203	819,803
1954	160,481	651,160	811,641

1. Except for manufacturing purposes.

TABLE 10. Nitrogen, Phosphoric Acid and Potash Contained in Fertilizers Sold During the Years Ended June 30, 1945-1954

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								
1945	7,633	25,387	3,087	14,327	51,309	39,578	21,960	76,696	42,665
1946	7,834	21,424	2,241	16,519	57,171	43,224	24,353	78,595	45,465
1947	8,923	26,231	2,216	16,821	59,021	44,913	25,744	85,252	47,129
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

TABLE 11. Production¹, Imports and Exports of Ammonium Sulphate, 1944-1953

Year	Production	Imports	Exports
1944	209,578	104	167,496
1945	221,499	105	181,189
1946	197,103	63	155,446
1947	196,825	124	158,975
1948	215,109	130	146,379
1949	225,949	140	167,147
1950	241,534	103	209,106
1951	209,159	314	145,724
1952	226,664	845	199,681
1953	186,540	21,254	147,371

1. Factory shipments since 1952.

TABLE 12. Imports and Exports of Fertilizers, 1952 and 1953

Item	1952		1953	
	Quantity	Value \$	Quantity	Value \$
Imports				
Ammonia, sulphate of	tons 845	46,195	21,254	925,636
Potash manure salts	" 1,697	24,600	1,375	18,999
Potash, muriate of	" 117,516	2,872,980	120,773	2,913,693
Potash, sulphate of	" 8,091	270,831	12,798	457,935
Nitrate of soda or cubic nitre	" 22,447	1,069,781	20,072	1,044,181
Fertilizers, superphosphate or acid phosphate of lime	" 215,285	4,239,599	204,588	4,186,284
Fertilizers, compounded or manufactured, n.o.p.	" 4,842	309,666	5,215	379,246
Fertilizers, unmanufactured, n.o.p.	" 28,753	1,488,948	40,067	1,852,030
Exports				
Ammonium sulphate	tons 199,681	8,717,210	147,371	6,492,953
Nitrogen fertilizer	" 342,004	21,359,975	340,739	21,787,314
Phosphate (fertilizer)	" 150,246	9,493,303	176,944	11,921,565
Fertilizers, manufactured, n.o.p.	" 53,812	2,722,316	46,724	2,431,022

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

TABLE 13. Employees and Their Earnings, by Provinces, 1952 and 1953

Province	Number of employees				Total	Earnings		
	Supervisory and office		Production workers			Supervisory and office	Production workers	Total
	Male	Female	Male	Female		\$	\$	\$
1952								
New Brunswick	15	6	114	—	135	72,996	310,320	383,316
Quebec	157	86	170	—	413	914,975	481,771	1,396,748
Ontario	203	73	689	4	969	960,587	2,140,021	3,100,608
British Columbia	247	21	955	10	1,233	1,279,422	3,591,516	4,870,938
Other provinces	85	21	340	9	455	450,459	1,123,233	1,573,692
Canada	707	207	2,268	23	3,205	3,678,439	7,646,861	11,325,300
1953								
New Brunswick	15	6	112	—	133	83,324	319,412	402,736
Quebec	152	88	169	—	409	919,319	475,583	1,394,902
Ontario	211	70	685	4	970	1,007,470	2,185,788	3,193,258
British Columbia	290	24	949	8	1,271	1,440,061	3,559,951	5,000,012
Other provinces	84	20	304	8	416	460,819	1,059,916	1,520,735
Canada	752	208	2,219	20	3,199	3,910,993	7,600,650	11,511,643

TABLE 14. Capital and Repair Expenditures in the Fertilizers Industry, 1949-1953

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								
1949	850	926	1,776	1,364	2,548	3,912	5,688	
1950	1,274	738	2,012	1,255	2,603	3,858	5,870	
1951	1,403	1,737	3,140	311	3,490	3,801	6,941	
1952	2,477	4,891	7,368	370	3,011	3,381	10,749	
1953 ¹	3,018	2,164	5,182	289	3,374	3,663	8,845	

1. Preliminary.

TABLE 15. Fuel and Electricity Used¹ in the Fertilizers Industry, 1953

Kind	Unit of measure	1953	
		Quantity	Cost at works
			\$
Bituminous coal - Canadian	ton	15,045	147,230
Imported	ton	46,013	464,448
Anthracite coal	ton	108	2,009
Gasoline	Imp. gal.	229,880	69,758
Kerosene or coal oil	Imp. gal.	3,856	1,017
Fuel oil	Imp. gal.	487,612	71,537
Gas - Liquefied petroleum gases (propane, etc.)	Imp. gal.	10,160	3,769
Manufactured	M cu. ft.	60	54
Natural	M cu. ft.	17,904	2,694
Other fuel	-	-	136
Electricity purchased	k.w.h.	223,236,072	1,185,968
Total	-	-	1,948,620
Electricity generated for own use ¹	k.w.h.	855,941,633	-

1. Electricity shown under this heading was obtained from generating equipment owned by one of the firms which had plants classified to this industry and is, therefore, listed as "generated for own use", however, the actual location of this equipment is outside the fertilizer plants. For this reason, details of this equipment are not included in Table 15.

TABLE 16. Power Equipment¹, 1953

	Ordinarily in use		In reserve or idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines	17	1,980	1	30
Gasoline, gas and oil engines, other than Diesel engines	20	888	1	75
Hydraulic turbines or water-wheels	2	60	2	72
Electric motors run by purchased power ¹	2,487	79,558	699	9,022
Total	2,526	82,486	703	9,199
Boilers for power purposes only	3	270	1	30
Motor-generator sets	26	241 k.v.a.	1	25 k.v.a.

1. Includes some motors run by electricity generated for own use. See footnote to Table 15.

List of Firms in the Fertilizers Industry, 1953

Name of firm	Location of plant
Prince Edward Island:	
The Island Fertilizer Co. Ltd.	Charlottetown
Canada Packers Limited	Summerside
Nova Scotia:	
Canadian Industries Limited (Fertilizer Division)	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 Fertilizer 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 (Fertilizer Division)	1490 Marlborough St., Montreal
Canadian Industries Limited (Fertilizer Division)	McMasterville
Houde, William, Limited	La Prairie
International Fertilizers Limited	Wolfe's Cove, Quebec
Ontario:	
Agricultural Chemicals Ltd.	Marsh St., Port Hope
Canada Packers Limited	Chatham
Canada Packers Limited	2200 St. Clair Ave. W., Toronto
Canada Packers Limited	Welland
Canadian Industries Limited (Fertilizer Division)	King St. E., Chatham
Canadian Industries Limited (Fertilizer Division)	Burlington & Ottawa Sts., Hamilton
Humar Corporation Ltd.	Dundas
Hy-Trous Co. of Canada Ltd.	121 Pitt St., Cornwall
Misner Seeds & 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
Read Brothers Fertilizers, Limited	Union St., Elmira
Stone, William, Sons Ltd.	Ingersoll
Swift Canadian Co. Limited	1400 The Queensway, Etobicoke
United Co-Operatives of Ontario	4004 Dundas St. W., Toronto
Witts Fertilizer Works Ltd.	Norwich
Alberta:	
Consolidated Mining and Smelting Co. of Canada Limited	Calgary
British Columbia:	
Buckerfield's Limited	Columbia St., New Westminster
Consolidated Mining and Smelting Co. of Canada Limited	Kimberley
Consolidated Mining and Smelting Co. of Canada Limited	Trall
Globe Fertilizer Co. Ltd.	Foot Crompton Road, Vancouver
Green Valley Fertilizer & Chemical Co. Ltd.	16th St. & 5th Ave., New Westminster
Vitalerth Products Limited	1741 West 4th Ave., Vancouver

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