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NEW HAMPSHIRE  
AGRICULTURAL EXPERIMENT STATION  
DEPARTMENT OF CHEMISTRY

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THE FERTILIZER  
INSPECTION  
FOR 1911

MADE FOR THE  
STATE BOARD OF AGRICULTURE

BY B. E. CURRY AND T. O. SMITH

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NEW HAMPSHIRE COLLEGE  
OF  
AGRICULTURE AND MECHANIC ARTS  
DURHAM, N. H.

NEW HAMPSHIRE COLLEGE OF AGRICULTURE  
AND THE MECHANIC ARTS.

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The bulletins of the Experiment Station are published at irregular intervals and are sent *free* to all residents of New Hampshire requesting them.



## INSPECTION OF FERTILIZERS FOR 1911

The samples of fertilizer for the 1911 inspection, as usual, were collected under the direction of the State Board of Agriculture and turned over to the State Agricultural Experiment Station for analysis. Aside from duplicates 113 samples have been received and analyzed. Of these, fifteen represent unmixed raw materials including ground bone and tannage.

The fertilizers, in general, met their guarantee. In a few instances marked shortages have occurred in some one element, but against these in most cases have been an excess of some other constituent. The consumer now is concerned more about the nature of the guarantee rather than about the deficiencies. The manufacturers are anxious to have all goods meet the guarantee. Any notable deviation is generally due to accident or mistake.

The large number of brands offered for sale give the consumer considerable latitude in the choice of goods. The manufacturers are advocating the use of the better grades of fertilizers. This is a step in the right direction and should be taken advantage of by the consumer. With a given sum of money more plant food may be purchased in the form of high-grade fertilizers.

Messrs. J. E. Robinson and D. B. Keyes have assisted in the preparation of the following analytical results.

The samples on which these results have been determined will be kept for three months after the distribution of this report.



THE AMERICAN AGRICULTURAL CHEMICAL CO.,  
M. E. WHEELER & Co. BRANCH.

Rutland Vt.

Crocker's Ammoniated Corn Phosphate.....	1.41	1.21	2.32	2.06	7.01	1.89	8.90	8.00	1.80	10.70	9.00	1.65	1.50
Crocker's Potato, Hop and Tobacco Phosphate.....	1.00	1.10	2.10	2.06	6.26	1.95	8.21	8.00	1.90	10.11	9.00	3.24	3.00
Crocker's New Rivall Ammoniated Super-Phosphate.....	.39	.70	1.09	1.03	6.01	1.39	8.00	8.00	1.37	9.37	9.00	2.10	2.00

PACKER'S UNION FERTILIZER BRANCH.

Rutland, Vt.

Packer's Union Animal Corn Fertilizer.....	1.43	.87	2.30	2.47	8.63	1.31	9.94	9.00	1.12	11.06	10.00	2.40	2.00
Packer's Union Potato Manure.....	1.25	1.02	2.25	2.06	8.37	.74	8.91	8.00	1.13	10.04	9.00	5.66	6.00
Packer's Union Universal Fertilizer.....	.29	.64	.95	.82	6.80	2.78	9.58	8.00	2.02	11.60	9.00	3.86	4.00

GREAT EASTERN NORTHERN BRANCH.

Rutland, Vt.

Great Eastern Potato Manure.....	1.41	.65	2.10	2.06	5.87	2.43	8.30	8.00	1.15	9.75	9.00	2.98	3.00
Great Eastern General Fertilizer.....	.32	.37	.80	.82	7.77	1.18	8.95	8.00	1.30	10.25	9.00	4.15	4.00

BOWKER FERTILIZER Co.

Boston and New York.

Bowker's Sure Crop Phosphate.....	.82	.42	1.24	.82	6.20	2.61	8.81	8.00	2.31	11.15	9.00	2.21	2.00
Bowker's Potash or Stable Phosphate.....	.72	.33	1.65	.82	1.00	1.70	8.70	8.00	2.12	10.82	9.00	3.88	3.00
Bowker's Potato and Vegetable Phosphate.....	.13	1.32	1.75	1.65	6.05	2.11	8.11	8.00	2.00	10.41	9.00	2.04	2.00
Bowker's Corn Phosphate.....	.84	.82	1.66	1.65	6.05	2.03	8.08	8.00	2.50	10.58	9.00	2.04	2.00
Bowker's Farm and Garden Phosphate.....	.83	.92	1.75	1.65	6.18	2.00	8.18	8.00	2.36	10.54	9.00	2.28	2.00
Bowker's Potato and Vegetable Fertilizer.....	1.24	1.39	2.63	2.47	7.86	.92	8.78	8.00	1.87	10.65	9.00	4.28	4.00
Bowker's Hill and Drill Phosphate.....	1.49	.93	2.42	2.47	6.55	2.71	9.29	9.00	2.52	11.81	10.00	2.28	2.00
Bowker's Lawn and Garden Dressing.....	2.06	.47	3.13	3.20	4.55	1.95	6.50	4.00	1.35	7.82	8.00	5.78	5.00
Bowker's Fresh Ground Bone.....			2.18	2.17					14.76	23.27	22.88		

Stockbridge Special Complete Manure for Potatoes and Veg-

etables, etc.....

Stockbridge Special Complete Manure for Corn and all Grain

Crops.....

Stockbridge Special Complete Manure for Top-Dressing and

for Forcing.....

Stockbridge Special Complete Manure for Potatoes and Veg- etables, etc.....	1.85	1.40	3.25	3.29	5.06	1.72	6.78	6.00	1.18	7.36	7.00	10.40	10.00
Stockbridge Special Complete Manure for Corn and all Grain Crops.....	1.95	1.36	3.31	3.29	8.51	1.51	10.02	10.00	1.33	11.55	11.00	7.70	7.00
Stockbridge Special Complete Manure for Top-Dressing and for Forcing.....	3.77	1.18	4.36	4.94	3.80	1.38	5.18	1.00	1.07	6.25	6.00	6.36	6.00

ARMOUR FERTILIZER WORKS.

Baltimore, Md.

Complete Manure.....	1.94	1.17	3.41	3.29	5.00	1.20	6.20	6.00	1.42	7.62	6.50	10.05	10.00
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Composition of Commercial Fertilizers Sampled and Analyzed in 1911.—Continued.

	NITROGEN.				PHOSPHORIC ACID.				POTASH.			
	Inorganic.	(Organic.)	Total.		Soluble.	Reverted.	Available.		Insoluble.	Found.	Guaranteed.	
			Found.	(Guaranteed.)			Found.	(Guaranteed.)				
MANUFACTURER AND BRAND.												
ATLANTIC FERTILIZER Co.												
THE BUFFALO FERTILIZER Co.												
Buffalo, N. Y.												
Acid Phosphate.....				12.99		15.55			.92	16.47	11.50	
Buffalo Ideal for Wheat and Corn.....	1.51	.29	1.80	8.00	1.24	9.24	9.00	1.65	10.29	10.00	5.22	5.00
Celery and Potato Special.....	.87	.83	1.64	5.59	2.61	8.00	8.00	1.87	9.87	9.00	10.55	10.00
Extra Phosphate and Potash.....				7.37	1.93	9.30	10.00	1.50	10.80	11.00	7.58	8.00
Farmer's Choice.....	.81	.40	1.21	6.52	1.55	8.07	8.00	1.73	9.80	9.00	5.18	5.00
Fish Guano.....	.41	.39	.80	4.57	1.43	9.00	9.00	1.60	10.60	10.00	2.72	2.00
General Crop.....				4.96	3.92	8.88	9.00	1.22	10.10	10.00	3.03	3.00
High Grade Manure.....	2.13	.70	2.83	4.57	2.95	7.52	7.00	.92	8.44	8.00	10.40	10.00
New England Special.....	1.78	.41	2.19	6.00	2.15	8.75	9.00	1.00	9.75	10.00	7.18	5.00
THE COE-MOITNER Co.												
New York City.												
E. Frank Coe's XXV Ammoniated Bone Phosphate.....	.46	.91	1.31	8.55	1.85	10.40	8.50	1.65	12.05	8.50	2.80	1.50
E. Frank Coe's New England Corn and Potato Fertilizer.....	.59	.48	1.07	5.87	2.25	8.12	7.50	1.22	9.34	8.50	3.34	3.00
E. Frank Coe's Famous Prize Grain and Glass Fertilizer.....				2.35	5.15	7.50	10.00	2.15	9.65	11.00	4.84	2.00
E. Frank Coe's Excelsior Potato Fertilizer.....	1.51	1.15	2.69	4.56	2.46	7.02	7.00	2.18	9.20	8.00	8.40	8.00
E. Frank Coe's Columbian Corn and Potato Fertilizer.....	.59	.68	1.27	8.59	1.36	9.85	8.50	2.40	12.25	9.50	2.71	2.50
E. Frank Coe's Celebrated Special Potato Fertilizer.....	.71	.45	1.16	6.37	2.23	8.60	8.00	1.60	10.20	9.00	5.22	4.00
E. Frank Coe's Corn and Potato Fertilizer.....	.63	.70	1.33	8.40	1.40	9.80	8.50	2.30	12.10	9.50	2.61	2.50

























