
New York Agricultural Experiment Station

GENEVA, N. Y.

REPORT OF ANALYSES OF SAMPLES OF FERTILIZERS
COLLECTED BY THE COMMISSIONER OF
AGRICULTURE DURING 1912



PUBLISHED BY THE STATION

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Address all correspondence, not to individual members of the staff, but to the NEW YORK AGRICULTURAL EXPERIMENT STATION, GENEVA, N. Y.

The Bulletins published by the Station will be sent free to any farmer applying for them.

*Riverhead, N. Y. †Absent on leave. ‡Connected with the Chautauqua Grape Work.

REPORT OF ANALYSES OF SAMPLES OF COMMERCIAL FERTILIZERS COLLECTED BY THE COMMISSIONER OF AGRICULTURE DURING 1912.

There are presented in this bulletin the analyses* of samples of fertilizers collected by the Commissioner of Agriculture during 1912 and transmitted by him for analysis to the Director of the New York Agricultural Experiment Station, in accordance with the provisions of Article 9 of the Agricultural Law. These analyses and the accompanying information are published by said Director in accordance with the provisions of Section 224 of said Law.

Since many requests have been received for such data, it has been deemed best to give figures showing the current values of fertilizer ingredients, with an illustration of the method of applying these figures in determining the approximate commercial valuation of the different brands.

TRADE-VALUES OF PLANT-FOOD ELEMENTS IN RAW MATERIALS AND CHEMICALS.

The trade-values in the following schedule have been agreed upon by the Experiment Stations of Massachusetts, Rhode Island, Connecticut, New York, New Jersey and Vermont, as a result of study of the prices actually prevailing in the large markets of these states.

These trade-values represent, as nearly as can be estimated, the average prices at which, during the six months preceding March, the respective ingredients, *in the form of unmixed raw materials*,

* The analyses herewith published are made in charge of the Chemical Department of the Station, the immediate oversight of the work being assigned to E. L. Baker, Associate Chemist.

could be bought at retail for cash in our large markets. These prices also correspond (except in case of available phosphoric acid) to the average wholesale prices for the six months preceding March, plus about 20 per ct., in case of goods for which there are wholesale quotations.

TRADE-VALUES OF PLANT-FOOD ELEMENTS IN RAW MATERIALS AND CHEMICALS.

	1912. Cts. per pound.
Nitrogen in ammonia salts.....	16½
“ in nitrates.....	16½
Organic nitrogen in dry and fine-ground fish, meat and blood.....	22
“ in fine-ground bone, tankage and mixed fertilizers.....	19
“ in coarse bone and tankage.....	15
“ in castor pomace and cottonseed meal.....	20
Phosphoric acid, water-soluble.....	4½
“ citrate-soluble (reverted).....	4
“ in fine-ground fish, bone and tankage.....	4
“ in cottonseed meal and castor-pomace.....	4
“ in coarse fish, bone, tankage and ashes.....	3½
“ in mixed fertilizers, insoluble in ammonium citrate or water.....	2
Potash as high-grade sulphate, in forms free from muriates (chlorides), in ashes, etc.....	5½
“ in muriate.....	4½
“ in castor pomace and cottonseed meal.....	5

VALUATION AND COST OF FERTILIZERS.

The total cost (to the farmer) of a ton of commercial fertilizer may be regarded as consisting of the following elements: (1) Retail cash cost, in the market, of unmixed trade materials; (2) cost of mixing; (3) cost of transportation; (4) storage, commissions to agents and dealers, selling on long credit, bad debts, etc. While the *total cost* of a fertilizer is made up of several different elements, a *commercial valuation* includes only the first of the elements entering into the total cost, that is, the retail cash cost in the market of unmixed raw materials.

VALUATION AND AGRICULTURAL VALUE.

The *agricultural value* of a fertilizer depends upon its *crop-producing power*. A commercial valuation does not necessarily have any relation to crop-producing value on a given farm. For a particular soil and crop, a fertilizer of comparatively low com-

mercial valuation may have a higher agricultural value; while, for another crop on the same soil, or the same crop on another soil, the reverse might be true.

RULE FOR CALCULATING APPROXIMATE COMMERCIAL VALUATION OF MIXED FERTILIZERS ON BASIS OF TRADE-VALUES FOR 1912.

Multiply the percentage of nitrogen by 3.8.

Multiply the percentage of available phosphoric acid by 0.9.

Multiply the percentage of insoluble phosphoric acid (total minus available) by 0.4.

Multiply the percentage of potash by 1.0.

The sum of these 4 products will be the commercial valuation per ton on the basis taken.

Illustration.—The table of analyses shows a certain fertilizer to have the following composition: Nitrogen 2.52 per ct.; available phosphoric acid 6.31 per ct.; insoluble phosphoric acid .89 per ct.; potash 6.64 per ct. According to this method of valuation, the computation would be as follows:

Nitrogen.....	2.52 x 3.8	\$9.58
Available phosphoric acid.....	6.31 x 0.9	5.70
Insoluble phosphoric acid.....	0.89 x 0.4	0.36
Potash.....	6.64 x 1.0	6.64
		\$22.28

This rule assumes all the nitrogen to be organic and all the potash to be in the form of sulphate. If a considerable portion of nitrogen exists in the fertilizer as nitrate of soda or as sulphate of ammonia, and potash is present as muriate, the results are considerably less.

Farmers should be warned against judging fertilizers by their valuations. A fertilizer, the cost of which comes chiefly from the phosphoric acid present, would value much lower commercially than a fertilizer with a high percentage of nitrogen, and yet the former might be the more profitable one for a given farmer to purchase.

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Alexandria Fertilizer & Chem. Co., Alexandria, Va.	Excelsior Guano	Phelps	2969
Alphano Humus Co., Great Meadows, N. J.	Alphano Humus	Mount Vernon	3110
The American Agricultural Chem. Co., New York	Acid Phosphate	Elmira	2038
The American Agricultural Chem. Co., New York	Acid Phosphate	Binghamton	3037
The American Agricultural Chem. Co., New York	Acme Early Crop Producer	Jamaica	2211
The American Agricultural Chem. Co., New York	Acme Fertilizer No. 2	Jamaica	2208
The American Agricultural Chem. Co., New York	Acme No. 1 Potato Manure	Warwick	2296
The American Agricultural Chem. Co., New York	Acme Special Potato and Truck	Laurel	2311
The American Agricultural Chem. Co., New York	Acme Superior Superphosphate	Apalachin	2811
The American Agricultural Chem. Co., New York	Bone Meal	Cornwall Landing	2719
The American Agricultural Chem. Co., New York	Bradley's Alkaline Bone with Potash	Cobleskill	2739
The American Agricultural Chem. Co., New York	Bradley's Ammoniated Dissolved Bone	Skaneateles	2429
The American Agricultural Chem. Co., New York	Bradley's Bean and Potato Phosphate	Skaneateles	2431
The American Agricultural Chem. Co., New York	Bradley's B. D. Sea Fowl Guano	Middleburg	2729
The American Agricultural Chem. Co., New York	Bradley's "B" Fertilizer	Owego	2502
The American Agricultural Chem. Co., New York	Bradley's Complete Manure for Potatoes and Vegetables	Riverhead	2303

COLLECTED IN NEW YORK STATE IN 1912

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2969	Guaranteed Found	.82 1.07	9. 9.76	— 10.80	7. 7.48
3110	Guaranteed Found	— .97	— —	— .85	— .54
2038	Guaranteed Found	— —	14. 15.12	15. 15.90	— —
3037	Guaranteed Found	— —	14. 15.56	15. 16.10	— —
2211	Guaranteed Found	4.11 4.26	8. 8.53	9. 9.38	7. 6.83
2208	Guaranteed Found	4.94 5.04	8. 8.35	9. 9.28	5. 5.08
2296	Guaranteed Found	3.29 3.12	6. 6.96	7. 7.78	10. 10.86
2311	Guaranteed Found	3.29 3.33	8. 8.06	9. 8.78	7. 7.44
2811	Guaranteed Found	.82 1.03	8. 8.43	9. 10.	4. 4.14
2719	Guaranteed Found	1.65 1.95	— —	13.75 14.65	— —
2739	Guaranteed Found	— —	11. 11.05	12. 11.37	2. 2.32
2429	Guaranteed Found	1.65 1.68	8. 8.71	9. 9.78	2. 2.18
2431	Guaranteed Found	.82 .92	8. 8.10	9. 9.52	4. 4.30
2729	Guaranteed Found	2.06 2.06	8. 8.46	9. 10.34	1.50 1.78
2502	Guaranteed Found	.82 .88	8. 7.95	9. 9.51	4. 3.90
2303	Guaranteed Found	3.29 3.28	8. 8.47	9. 9.23	7. 7.24

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The American Agricultural Chem. Co., New York	Bradley's Complete Manure with 10% Potash	Riverhead	2304
The American Agricultural Chem. Co., New York	Bradley's Justice Dissolved Bone	Esperance	2725
The American Agricultural Chem. Co., New York	Bradley's New Method Fertilizer	Catskill	2256
The American Agricultural Chem. Co., New York	Bradley's Niagara Phosphate	Skaneateles	2432
The American Agricultural Chem. Co., New York	Bradley's Patent Super-Phosphate	Skaneateles	2427
The American Agricultural Chem. Co., New York	Bradley's Potato and Truck Grower	Catskill	2254
The American Agricultural Chem. Co., New York	Bradley's Potato Fertilizer	Owego	2503
The American Agricultural Chem. Co., New York	Bradley's Potato Manure	Owego	2504
The American Agricultural Chem. Co., New York	Bradley's Soluble Dissolved Phosphate	Skaneateles	2430
The American Agricultural Chem. Co., New York	Canner's Pea and Bean Special Fertilizer	Cortland	2525
The American Agricultural Chem. Co., New York	Chicopee Farmers Reliable	Cherry Valley	2742
The American Agricultural Chem. Co., New York	Chicopee Standard Guano	Ballston Spa.	2852
The American Agricultural Chem. Co., New York	Chicopee Vegetable and Potato Manure	White Plains	3107
The American Agricultural Chem. Co., New York	Clark's Cove Atlas Phosphate	Delanson	2280
The American Agricultural Chem. Co., New York	Clark's Cove Defiance Fertilizer	Orchard Park	2610
The American Agricultural Chem. Co., New York	Clark's Cove King Philip Alkaline Guano	Delanson	2281
The American Agricultural Chem. Co., New York	Clark's Cove Potato and Hop Grower	Port Jervis	2712

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2304	Guaranteed Found	3.29 3.36	6. 6.74	7. 7.31	10. 10.76
2725	Guaranteed Found	— —	12. 12.41	13. 13.58	— —
2256	Guaranteed Found	.82 .90	8. 8.34	9. 9.65	2. 2.10
2432	Guaranteed Found	.82 .96	7. 6.98	8. 8.74	1. 1.28
2427	Guaranteed Found	2.06 1.88	8. 8.32	9. 10.69	1.50 2.38
2254	Guaranteed Found	1.65 1.64	8. 8.45	9. 9.63	10. 10.26
2503	Guaranteed Found	2.06 2.04	8. 7.93	9. 9.37	3. 3.26
2504	Guaranteed Found	2.47 2.48	6. 6.64	7. 7.84	6. 5.85
2430	Guaranteed Found	— —	14. 14.83	15. 15.36	— —
2525	Guaranteed Found	.82 1.01	7. 7.74	8. 9.06	9. 8.10
2742	Guaranteed Found	.82 .83	7. 7.65	8. 9.	1. 1.54
2852	Guaranteed Found	.82 .94	8. 8.50	9. 9.21	4. 4.44
3107	Guaranteed Found	2.47 2.27	8. 8.49	9. 9.72	6. 5.56
2280	Guaranteed Found	— —	14. 14.69	15. 15.20	— —
2610	Guaranteed Found	.82 .96	7. 7.45	8. 9.55	1. 1.42
2281	Guaranteed Found	1.03 1.33	8. 8.39	9. 9.97	2. 2.16
2712	Guaranteed Found	.82 1.03	8. 8.38	9. 9.55	4. 4.14

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The American Agricultural Chem. Co., New York	Clark's Cove Triumph Phosphate and Potash	Delanson	2283
The American Agricultural Chem. Co., New York	Clark's Cove Unicorn Fertilizer	Guilford	2526
The American Agricultural Chem. Co., New York	Complete Tobacco Manure	Owego	2845
The American Agricultural Chem. Co., New York	Crocker's Alkaline Bone and Potash	Auburn	2552
The American Agricultural Chem. Co., New York	Crocker's Cabbage and Potato Manure	Seneca Falls	2582
The American Agricultural Chem. Co., New York	Crocker's Complete Manure	Albion	2126
The American Agricultural Chem. Co., New York	Crocker's Complete Wheat Grower	Albion	2124
The American Agricultural Chem. Co., New York	Crocker's Dissolved Phosphate	Sherburne	2532
The American Agricultural Chem. Co., New York	Crocker's Dissolved Phosphate and Potash	Waverly	2563
The American Agricultural Chem. Co., New York	Crocker's Erie Phosphate	Sherburne	2533
The American Agricultural Chem. Co., New York	Crocker's General Crop Fertilizer	Hamburg	2616
The American Agricultural Chem. Co., New York	Crocker's Harvest Jewel Fertilizer	Hamburg	2615
The American Agricultural Chem. Co., New York	Crocker's High Grade Special Fertilizer	Albion	2125
The American Agricultural Chem. Co., New York	Crocker's New Rival Fertilizer	Groton	2506
The American Agricultural Chem. Co., New York	Crocker's New York Special Phosphate	Albion	2128
The American Agricultural Chem. Co., New York	Crocker's Potato, Hop and Tobacco Fertilizer	Waverly	2562

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2283	Guaranteed Found	———— ————	10. 10.51	11. 11.35	2. 2.04
2526	Guaranteed Found	1.65 1.57	8. 8.23	9. 9.42	2. 2.04
2845	Guaranteed Found	4.53 5.06	3. 3.90	4. 5.60	5.50 5.16
2552	Guaranteed Found	———— ————	12. 12.68	13. 13.18	5. 5.12
2582	Guaranteed Found	2.47 2.40	8. 8.83	9. 10.76	6. 5.56
2126	Guaranteed Found	.82 .98	8. 8.67	9. 10.38	4. 3.86
2124	Guaranteed Found	1.65 .91	10. 11.09	11. 13.24	4. 2.54
2532	Guaranteed Found	———— ————	14. 15.41	15. 15.65	———— ————
2563	Guaranteed Found	———— ————	10. 10.59	11. 11.51	2. 2.10
2533	Guaranteed Found	———— ————	12. 14.29	13. 15.13	———— ————
2616	Guaranteed Found	.82 .90	7. 6.44	8. 8.69	1. 1.22
2615	Guaranteed Found	1.65 1.68	8. 7.99	9. 10.39	2. 2.32
2125	Guaranteed Found	1.65 1.50	8. 9.16	9. 10.72	4. 4.22
2506	Guaranteed Found	1.23 1.38	9. 9.72	10. 11.13	2. 2.78
2128	Guaranteed Found	———— ————	10. 11.08	11. 12.67	8. 7.82
2562	Guaranteed Found	2.06 2.02	8. 8.17	9. 9.05	3. 3.32

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The American Agricultural Chem. Co., New York	Crocker's Special Potato Manure	Mattituck	2383
The American Agricultural Chem. Co., New York	Crocker's Universal Grain Grower	Boonville	2685
The American Agricultural Chem. Co., New York	Crocker's Wheat and Corn Fertilizer	Albion	2127
The American Agricultural Chem. Co., New York	Darling's Blood, Bone and Potash	Laurel	2312
The American Agricultural Chem. Co., New York	Darling's Long Island "A"	Mattituck	2377
The American Agricultural Chem. Co., New York	Dry Ground Fish	Mattituck	2350
The American Agricultural Chem. Co., New York	East India Complete Manure for General Use	Catskill	2255
The American Agricultural Chem. Co., New York	East India Corn, Cabbage and Potato Manure	Monroe	2701
The American Agricultural Chem. Co., New York	East India H. G. General Fertilizer	New Hyde Park	1788
The American Agricultural Chem. Co., New York	East India Nitrogenized Complete Manure	Stuyvesant Falls	3130
The American Agricultural Chem. Co., New York	East India Potato Manure	New Hyde Park	2217
The American Agricultural Chem. Co., New York	East India Potato and Truck Manure	Mattituck	2351
The American Agricultural Chem. Co., New York	East India Vegetable, Vine and Potato Manure	Binghamton	2043
The American Agricultural Chem. Co., New York	Fine Ground Bone	Brockport	2465
The American Agricultural Chem. Co., New York	Genuine German Kainit	Mattituck	2352
The American Agricultural Chem. Co., New York	Grass and Lawn Top Dressing	Warwick	2297
The American Agricultural Chem. Co., New York	Great Eastern English Wheat Grower	Unadilla	2592

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2383	Guaranteed Found	3.29 3.15	8. 8.45	9. 9.08	7. 7.44
2685	Guaranteed Found	.82 .92	8. 8.40	9. 9.57	2. 2.22
2127	Guaranteed Found	2.06 2.06	8. 8.90	9. 10.37	1.50 2.70
2312	Guaranteed Found	4.11 4.11	7. 7.44	8. 8.30	7. 7.54
2377	Guaranteed Found	3.29 3.47	8. 8.35	9. 9.19	7. 6.90
2350	Guaranteed Found	8.23 7.83	— —	6. 7.40	— —
2255	Guaranteed Found	2.47 2.67	8. 8.62	9. 10.30	6. 6.12
2701	Guaranteed Found	4.11 4.11	7. 7.85	8. 8.45	7. 7.36
1788	Guaranteed Found	3.29 3.36	8. 8.29	9. 9.10	7. 7.20
3130	Guaranteed Found	8.23 8.30	4. 5.50	5. 6.64	4. 4.20
2217	Guaranteed Found	3.29 3.32	6. 6.22	7. 6.95	10. 10.48
2351	Guaranteed Found	3.29 3.42	7. 7.14	8. 7.88	7. 7.32
2043	Guaranteed Found	2.47 2.56	6. 6.99	7. 9.26	10. 10.24
2465	Guaranteed Found	2.47 3.21	— —	22.88 23.49	— —
2352	Guaranteed Found	— —	— —	— —	12. 13.52
2297	Guaranteed Found	3.91 3.64	5. 5.31	6. 7.25	2. 2.68
2592	Guaranteed Found	.82 1.01	8. 8.22	9. 9.24	2. 2.16

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The American Agricultural Chem. Co., New York	Great Eastern Garden Special	Jamaica	2210
The American Agricultural Chem. Co., New York	Great Eastern Garden Special	Orient	2660
The American Agricultural Chem. Co., New York	Great Eastern General	Delanson	2277
The American Agricultural Chem. Co., New York	Great Eastern High Grade Vegetable, Vine and Tobacco Fertilizer	Unadilla	2591
The American Agricultural Chem. Co., New York	Great Eastern New York Potato Special	Chateaugay	2911
The American Agricultural Chem. Co., New York	Great Eastern Northern Corn Special	Unadilla	2590
The American Agricultural Chem. Co., New York	Great Eastern Peerless Potato Manure	Delanson	2278
The American Agricultural Chem. Co., New York	Great Eastern Schodack Special	Gouverneur	2676
The American Agricultural Chem. Co., New York	Great Eastern Soluble Bone and Potash	Sherburne	2530
The American Agricultural Chem. Co., New York	Great Eastern Unammoniated Wheat Special	Sherburne	2531
The American Agricultural Chem. Co., New York	Great Eastern Vegetable, Vine and Tobacco Fertilizer	Burke	2910
The American Agricultural Chem. Co., New York	Ground Tankage	Oakfield	2771
The American Agricultural Chem. Co., New York	Ground Tankage 9-20	Oneida	2825
The American Agricultural Chem. Co., New York	Ground Untreated Phosphate Rock	Barneveld	2698
The American Agricultural Chem. Co., New York	High Grade Celery, Onion and Truck Manure	Jamaica	2215
The American Agricultural Chem. Co., New York	High Grade Dried Blood	Elmira	2036

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2210	Guaranteed Found	3.29 3.32	8. 8.37	9. 9.	7. 7.24
2660	Guaranteed Found	3.29 3.21	8. 8.73	9. 9.04	7. 7.42
2277	Guaranteed Found	.82 .86	8. 8.18	9. 8.98	4. 4.38
2591	Guaranteed Found	2.06 2.10	8. 8.73	9. 9.39	6. 5.96
2911	Guaranteed Found	1.85 1.63	7. 7.95	8. 9.12	10. 9.02
2590	Guaranteed Found	2.47 2.68	9. 9.18	10. 10.63	2. 2.12
2278	Guaranteed Found	1.03 1.26	7. 7.51	8. 9.10	10. 10.26
2676	Guaranteed Found	.82 .87	9. 9.97	10. 10.59	7. 7.20
2530	Guaranteed Found	— —	11. 11.12	12. 11.38	2. 2.08
2531	Guaranteed Found	— —	12. 12.27	13. 12.96	— —
2910	Guaranteed Found	2.06 2.06	8. 7.69	9. 9.63	3. 3.22
2771	Guaranteed Found	7.40 6.99	— —	9.15 11.30	— —
2825	Guaranteed Found	7.41 7.11	— —	9.15 11.38	— —
2698	Guaranteed Found	— —	— —	30.20 30.70	— —
2215	Guaranteed Found	4.11 3.41	4. 4.84	5. 5.37	12. 11.46
2036	Guaranteed Found	9.87 12.24	— —	— —	— —

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The American Agricultural Chem. Co., New York	High Grade Ground Bone	Elmira	3015
The American Agricultural Chem. Co., New York	High Grade Potash Compound	Randolph	2109
The American Agricultural Chem. Co., New York	High Grade Sulphate of Potash	Elmira	3014
The American Agricultural Chem. Co., New York	Lazaretto "AA" Superphosphate	Webster	3176
The American Agricultural Chem. Co., New York	Lazaretto Alkaline Dissolved Bone	Smithboro	3006
The American Agricultural Chem. Co., New York	Lazaretto Ammoniated Phosphate	Carlton Station	2981
The American Agricultural Chem. Co., New York	Lazaretto Dissolved Phosphate	Cortland	3038
The American Agricultural Chem. Co., New York	Lazaretto Dissolved Phosphate and Potash	Ballston Spa	2853
The American Agricultural Chem. Co., New York	Lazaretto Extra Ammoniated Bone Phosphate	Medina	2455
The American Agricultural Chem. Co., New York	Lazaretto High Grade Alkaline Dissolved Bone	Medina	2456
The American Agricultural Chem. Co., New York	Lazaretto New York Standard No. 1	Copenhagen	2682
The American Agricultural Chem. Co., New York	Michigan Carbon Works General Crop Fertilizer	Middleport	2489
The American Agricultural Chem. Co., New York	Michigan Carbon Works Homestead Fertilizer	North Collins	2627
The American Agricultural Chem. Co., New York	Michigan Carbon Works Homestead Potato and Tobacco Fertilizer	Middleport	2490
The American Agricultural Chem. Co., New York	Michigan Carbon Works Red Line Phosphate	Fredonia	2965
The American Agricultural Chem. Co., New York	Michigan Carbon Works Red Line Phosphate with Potash	Ellicottville	3178

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
3015	Guaranteed Found	3.29	—	20.59	—
		3.97	—	20.73	—
2109	Guaranteed Found	1.65	8.	9.	10.
		1.70	8.06	10.04	10.06
3014	Guaranteed Found	—	—	—	48.
		—	—	—	45.88
3176	Guaranteed Found	1.85	9.	10.	4.
		1.77	9.65	11.	4.48
3006	Guaranteed Found	—	13.	14.	3.
		—	13.23	13.60	3.40
2981	Guaranteed Found	.82	8.	9.	2.
		1.	8.40	10.68	2.34
3038	Guaranteed Found	—	14.	15.	—
		—	14.45	16.	—
2853	Guaranteed Found	—	10.	11.	2.
		—	10.46	11.08	2.10
2455	Guaranteed Found	.83	8.	9.	4.
		.97	8.18	9.85	3.96
2456	Guaranteed Found	—	10.	11.	8.
		—	10.25	11.95	7.52
2682	Guaranteed Found	1.65	8.	9.	2.
		1.43	8.98	9.62	2.42
2489	Guaranteed Found	.82	8.	9.	4.
		.95	8.94	9.89	4.24
2627	Guaranteed Found	2.06	8.	9.	1.50
		2.14	8.76	10.56	2.
2490	Guaranteed Found	2.06	8.	9.	3.
		2.13	8.64	9.81	3.18
2965	Guaranteed Found	—	14.	15.	—
		—	13.66	15.95	—
3178	Guaranteed Found	—	10.	11.	2.
		—	10.38	11.98	1.90

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The American Agricultural Chem. Co., New York	Milsom's Acid Phosphate	Albion	2130
The American Agricultural Chem. Co., New York	Milsom's Acidulated Bone and Potash	Romulus	2572
The American Agricultural Chem. Co., New York	Milsom's Blood, Bone and Potash Fertilizer	McGraw	2546
The American Agricultural Chem. Co., New York	Milsom's Buffalo Fertilizer	Canandaigua	2792
The American Agricultural Chem. Co., New York	Milsom's Buffalo Guano	Fancher	2140
The American Agricultural Chem. Co., New York	Milsom's Corn Fertilizer	Chenango Forks	2439
The American Agricultural Chem. Co., New York	Milsom's Dissolved Phosphate	Fancher	2145
The American Agricultural Chem. Co., New York	Milsom's Dissolved Phosphate and Potash	Trumansburg	2566
The American Agricultural Chem. Co., New York	Milsom's Erie King Fertilizer	Clarence	2777
The American Agricultural Chem. Co., New York	Milsom's Potato and Cabbage Manure	Albion	2132
The American Agricultural Chem. Co., New York	Milsom's Potato, Hop and Tobacco Fertilizer	Chenango Forks	2438
The American Agricultural Chem. Co., New York	Milsom's Special Bean and Grain Fertilizer	Albion	2129
The American Agricultural Chem. Co., New York	Milsom's Vegetable Fertilizer	Hamburg	2625
The American Agricultural Chem. Co., New York	Milsom's Vegetable Fertilizer	North Collins	2630
The American Agricultural Chem. Co., New York	Milsom's Wheat, Oats and Barley Fertilizer	Randolph	2110
The American Agricultural Chem. Co., New York	Muriate of Potash	Elmira	2037
The American Agricultural Chem. Co., New York	Muriate of Potash	Gates	2759

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2130	Guaranteed Found	— —	14. 13.50	15. 15.72	— —
2572	Guaranteed Found	— —	12. 12.43	13. 12.68	5. 4.98
2546	Guaranteed Found	3.29 3.24	6. 6.45	7. 6.92	10. 10.46
2792	Guaranteed Found	2.06 2.10	8. 8.59	9. 9.98	1.50 1.64
2140	Guaranteed Found	.82 .98	8. 8.31	9. 10.12	4. 3.78
2439	Guaranteed Found	2.47 2.42	9. 9.54	10. 10.49	2. 2.88
2145	Guaranteed Found	— —	12. 11.74	13. 14.17	— —
2566	Guaranteed Found	— —	10. 10.14	11. 10.93	2. 2.12
2777	Guaranteed Found	.82 1.12	7. 7.	8. 9.47	1. 1.40
2132	Guaranteed Found	.82 1.	9. 9.12	10. 11.32	7. 7.64
2438	Guaranteed Found	2.06 1.96	8. 8.14	9. 9.32	3. 3.70
2129	Guaranteed Found	— —	10. 10.33	11. 12.09	8. 7.58
2625	Guaranteed Found	3.29 3.33	8. 8.44	9. 8.85	7. 7.64
2630	Guaranteed Found	3.29 3.24	8. 8.91	9. 10.38	7. 7.82
2110	Guaranteed Found	.82 1.18	8. 7.97	9. 10.32	2. 2.58
2037	Guaranteed Found	— —	— —	— —	49. 49.80
2759	Guaranteed Found	— —	— —	— —	49. 50.36

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The American Agricultural Chem. Co., New York	Nitrate of Soda	Elmira	2039
The American Agricultural Chem. Co., New York	Nitrate of Soda	Gates	2760
The American Agricultural Chem. Co., New York	Nitrate of Soda	Ogdensburg	2905
The American Agricultural Chem. Co., New York	North Western Acid Phosphate	Medina	2150
The American Agricultural Chem. Co., New York	North Western Acid Phosphate	Rochester	2758
The American Agricultural Chem. Co., New York	North Western Beet Special Fertilizer	Syracuse	2824
The American Agricultural Chem. Co., New York	North Western Challenge Crop Grower	Potsdam	2671
The American Agricultural Chem. Co., New York	North Western Complete Compound	Voorheesville	2271
The American Agricultural Chem. Co., New York	North Western Dissolved Phosphate and Potash	Voorheesville	2273
The American Agricultural Chem. Co., New York	North Western Empire Special Manure	Highland	3121
The American Agricultural Chem. Co., New York	North Western Grain Fertilizer	North Harpersfield	2837
The American Agricultural Chem. Co., New York	North Western High Grade Alkaline Phosphate	Greene	2537
The American Agricultural Chem. Co., New York	North Western High Grade General Fertilizer	Medina	2454
The American Agricultural Chem. Co., New York	North Western Market Garden Phosphate	Darien	3151
The American Agricultural Chem. Co., New York	North Western Special Fertilizer	Medina	2457
The American Agricultural Chem. Co., New York	North Western 10% Potato Fertilizer	Medina	2453

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2039	Guaranteed Found	15. 15.76	— —	— —	— —
2760	Guaranteed Found	15. 14.99	— —	— —	— —
2905	Guaranteed Found	15. 15.05	— —	— —	— —
2150	Guaranteed Found	— —	14. 14.29	15. 16.76	— —
2758	Guaranteed Found	— —	14. 14.20	15. 16.90	— —
2824	Guaranteed Found	.82 1.16	8. 8.57	9. 9.55	10. 8.45
2671	Guaranteed Found	1.03 1.27	8. 8.50	9. 9.56	2. 2.46
2271	Guaranteed Found	.82 .88	8. 8.26	9. 9.67	4. 4.06
2273	Guaranteed Found	— —	10. 10.13	11. 11.17	2. 2.02
3121	Guaranteed Found	3.29 3.56	7. 8.14	8. 8.80	7. 6.16
2837	Guaranteed Found	1.65 1.64	10. 11.17	11. 11.99	4. 3.90
2537	Guaranteed Found	— —	10. 10.93	11. 11.57	8. 7.92
2454	Guaranteed Found	1.65 1.79	8. 8.68	9. 10.16	4. 4.28
3151	Guaranteed Found	2.47 2.40	8. 8.87	9. 10.38	6. 5.86
2457	Guaranteed Found	.82 1.06	9. 9.02	10. 11.25	7. 6.96
2453	Guaranteed Found	1.65 1.55	8. 8.39	9. 10.28	10. 10.68

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The American Agricultural Chem. Co., New York	North Western XXX Alkaline Phosphate	Cherry Valley	2746
The American Agricultural Chem. Co., New York	Pacific Nobsque Guano	Eden Center	2620
The American Agricultural Chem. Co., New York	Pacific Soluble Guano	Moravia	2508
The American Agricultural Chem. Co., New York	Packer's Union Animal Corn Fertilizer	Afton	2844
The American Agricultural Chem. Co., New York	Packer's Union Banner Wheat Grower	Schuylerville	2870
The American Agricultural Chem. Co., New York	Packer's Union Gardeners Complete Manure	East Marion	2399
The American Agricultural Chem. Co., New York	Packer's Union Potato Manure	East Marion	2400
The American Agricultural Chem. Co., New York	Packer's Union Universal Fertilizer	Lowville	2684
The American Agricultural Chem. Co., New York	Potato and Garden Manure	Little Neck	2242
The American Agricultural Chem. Co., New York	Potato and Onion Special	Albion	2131
The American Agricultural Chem. Co., New York	Preston's Pioneer Fertilizer	Tivoli	3123
The American Agricultural Chem. Co., New York	Preston's Potato Fertilizer	Valley Stream	2237
The American Agricultural Chem. Co., New York	Pulverized Sheep Manure	Jamaica	1786
The American Agricultural Chem. Co., New York	Pure Ground Bone	Hamburg	2626
The American Agricultural Chem. Co., New York	Pure Unleached Canada Hardwood Ashes	New York	2247
The American Agricultural Chem. Co., New York	Quinnipiac Ammoniated Dissolved Bone	Skaneateles	2407
The American Agricultural Chem. Co., New York	Quinnipiac "B" Fertilizer	Trumansburg	2565

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2746	Guaranteed Found	— —	10. 10.08	11. 10.44	5. 5.76
2620	Guaranteed Found	1.03 1.35	8. 8.15	9. 10.26	2. 2.66
2508	Guaranteed Found	2.06 2.07	8. 7.89	9. 9.61	1.50 1.92
2844	Guaranteed Found	2.47 2.61	9. 9.08	10. 10.71	2. 2.38
2870	Guaranteed Found	— —	10. 10.71	11. 11.14	2. 2.10
2399	Guaranteed Found	3.29 3.38	6. 6.29	7. 6.90	10. 10.20
2400	Guaranteed Found	2.06 2.37	8. 8.41	9. 9.38	6. 6.16
2684	Guaranteed Found	.82 .97	8. 8.53	9. 9.38	4. 4.48
2242	Guaranteed Found	3.29 3.22	7. 7.30	8. 8.20	7. 7.10
2131	Guaranteed Found	1.65 1.72	10. 10.26	11. 12.05	6. 5.96
3123	Guaranteed Found	1.03 1.17	8. 8.52	9. 10.72	2. 2.32
2237	Guaranteed Found	3.29 3.52	8. 8.15	9. 8.95	7. 7.08
1786	Guaranteed Found	2.06 2.25	.50 1.14	1.25 1.24	.50 2.04
2626	Guaranteed Found	3.29 3.28	— —	20.59 22.29	— —
2247	Guaranteed Found	— —	— .53	— 1.11	2. 3.12
2407	Guaranteed Found	1.65 1.57	8. 8.23	9. 9.44	2. 2.26
2565	Guaranteed Found	.82 .93	8. 8.33	9. 8.90	4. 4.34

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The American Agricultural Chem. Co., New York	Quinnipiac Climax Phosphate	Skaneateles	2410
The American Agricultural Chem. Co., New York	Quinnipiac Dissolved Phosphate and Potash	Newark Valley	3007
The American Agricultural Chem. Co., New York	Quinnipiac Market Garden Manure	Fort Johnson	2855
The American Agricultural Chem. Co., New York	Quinnipiac Mohawk Fertilizer	Skaneateles	2409
The American Agricultural Chem. Co., New York	Quinnipiac Potato Manure	Preble	2550
The American Agricultural Chem. Co., New York	Quinnipiac Potato Phosphate	Fort Johnson	2856
The American Agricultural Chem. Co., New York	Quinnipiac Soluble Dissolved Phosphate	Skaneateles	2408
The American Agricultural Chem. Co., New York	Read's Acid Phosphate	Willow Creek	2570
The American Agricultural Chem. Co., New York	Read's Corn, Wheat and Rye Fertilizer	Windsor	2177
The American Agricultural Chem. Co., New York	Read's Dissolved Bone	Eden Center	2619
The American Agricultural Chem. Co., New York	Read's Farmer's Friend Super Phosphate	Greenwood Lake	2298
The American Agricultural Chem. Co., New York	Read's High Grade Farmer's Friend	Lynbrook	1789
The American Agricultural Chem. Co., New York	Read's High Grade Farmer's Friend	Medina	2452
The American Agricultural Chem. Co., New York	Read's High Grade Farmer's Friend	Medina	3251
The American Agricultural Chem. Co., New York	Read's High Grade Special	Middleport	2488
The American Agricultural Chem. Co., New York	Read's Leader B and B Fertilizer	Potsdam	2675
The American Agricultural Chem. Co., New York	Read's Phosphate and Potash	Willow Creek	2571

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2410	Guaranteed Found	1.03 1.20	8. 8.70	9. 9.87	2. 2.40
3007	Guaranteed Found	— —	10. 10.62	11. 11.40	2. 2.10
2855	Guaranteed Found	3.29 3.56	8. 8.60	9. 9.21	7. 7.72
2409	Guaranteed Found	.82 .95	7. 7.29	8. 8.39	1. 1.22
2550	Guaranteed Found	2.47 2.56	6. 6.99	7. 7.87	6. 5.73
2856	Guaranteed Found	2.06 2.14	8. 7.99	9. 9.84	3. 3.42
2408	Guaranteed Found	— —	14. 14.83	15. 15.99	— —
2570	Guaranteed Found	— —	14. 13.88	15. 14.58	— —
2177	Guaranteed Found	1.65 2.44	8. 8.30	9. 9.17	4. 5.14
2619	Guaranteed Found	— —	12. 11.77	13. 13.76	— —
2298	Guaranteed Found	2.06 2.10	8. 8.22	9. 9.40	3. 3.44
1789	Guaranteed Found	3.29 3.36	6. 6.84	7. 7.38	10. 10.38
2452	Guaranteed Found	3.29 2.49	6. 7.33	7. 8.72	10. 10.96
3251	Guaranteed Found	3.29 3.08	6. 6.69	7. 8.15	10. 10.20
2488	Guaranteed Found	— —	12. 12.06	13. 13.53	5. 5.30
2675	Guaranteed Found	.82 .92	7. 8.11	8. 9.23	1. 1.18
2571	Guaranteed Found	— —	10. 11.08	11. 12.29	2. 1.76

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The American Agricultural Chem. Co., New York	Read's Practical Potato Special	Windsor	2175
The American Agricultural Chem. Co., New York	Read's Standard Super Phosphate	Windsor	2174
The American Agricultural Chem. Co., New York	Read's 10 and 8	Windsor	2176
The American Agricultural Chem. Co., New York	Read's Truck Fertilizer	Lynbrook	1790
The American Agricultural Chem. Co., New York	Read's Vegetable and Vine Fertilizer	Lynbrook	1791
The American Agricultural Chem. Co., New York	Read's Veribest	East Homer	3039
The American Agricultural Chem. Co., New York	Reese's Challenge Crop Grower	Kirkwood	2807
The American Agricultural Chem. Co., New York	Reese's Crown Phosphate and Potash	West Stockholm	2914
The American Agricultural Chem. Co., New York	Reese's Elm Phosphate	West Stockholm	2915
The American Agricultural Chem. Co., New York	Reese's High Grade Potash Mixture	Skaneateles	2411
The American Agricultural Chem. Co., New York	Reese's Mayflower	Kirkwood	2809
The American Agricultural Chem. Co., New York	Reese's Pilgrim Fertilizer	West Stockholm	2913
The American Agricultural Chem. Co., New York	Reese's Potato Manure	Kirkwood	2808
The American Agricultural Chem. Co., New York	Reese's Special Alkaline Phosphate	West Stockholm	2912
The American Agricultural Chem. Co., New York	16% Acid Phosphate	Riverhead	2336
The American Agricultural Chem. Co., New York	Special Potash Mixture	So. Alabama	2769
The American Agricultural Chem. Co., New York	Standard "A" Fertilizer	Sharon Springs	2750

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2175	Guaranteed Found	.82 .89	4. 5.02	5. 6.48	8. 8.62
2174	Guaranteed Found	.82 .85	8. 7.98	9. 8.93	4. 4.88
2176	Guaranteed Found	— —	10. 9.97	11. 10.82	8. 8.30
1790	Guaranteed Found	3.29 3.30	8. 8.57	9. 9.27	7. 7.52
1791	Guaranteed Found	2.06 2.30	8. 8.45	9. 9.54	3. 6.04
3039	Guaranteed Found	1.65 1.96	10. 10.38	11. 10.90	8. 8.14
2807	Guaranteed Found	.82 1.06	8. 8.25	9. 9.73	2. 2.76
2914	Guaranteed Found	— —	11. 11.35	12. 12.05	2. 2.38
2915	Guaranteed Found	— —	14. 13.78	15. 15.49	— —
2411	Guaranteed Found	— —	12. 11.66	13. 12.04	5. 5.32
2809	Guaranteed Found	1.65 1.84	8. 8.58	9. 9.67	2. 4.38
2913	Guaranteed Found	.82 .90	8. 7.87	9. 9.15	4. 4.10
2808	Guaranteed Found	.82 .98	9. 9.29	10. 9.99	7. 6.80
2912	Guaranteed Found	— —	10. 10.	11. 11.44	2. 1.92
2336	Guaranteed Found	— —	— 16.14	— 16.80	— —
2769	Guaranteed Found	.82 1.20	9. 9.32	10. 11.44	7. 7.08
2750	Guaranteed Found	.82 .88	7. 7.07	8. 8.79	1. 1.22

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The American Agricultural Chem. Co., New York	Standard Ammoniated Dissolved Bone	Akron	2774
The American Agricultural Chem. Co., New York	Standard " B " Fertilizer	Fonda	2851
The American Agricultural Chem. Co., New York	Standard Complete Manure	Orchard Park	2609
The American Agricultural Chem. Co., New York	Standard Guano	Cornwallville	2262
The American Agricultural Chem. Co., New York	Standard Phosphate and Potash	Cornwallville	2260
The American Agricultural Chem. Co., New York	Standard Special for Potatoes	Cornwallville	2261
The American Agricultural Chem. Co., New York	Suffolk County Club's Cauliflower Fertilizer	Mattituck	2662
The American Agricultural Chem. Co., New York	Suffolk County Club's Fertilizer	Mattituck	2661
The American Agricultural Chem. Co., New York	Sulphate of Ammonia	Oneida	2826
The American Agricultural Chem. Co., New York	Superior Alkaline Bone	Fancher	2142
The American Agricultural Chem. Co., New York	10% Vegetable and Potato Manure	Kingston	2265
The American Agricultural Chem. Co., New York	Thomas Phosphate Powder (Basic Slag)	Binghamton	3033
The American Agricultural Chem. Co., New York	Wheat & Corn Producer	Port Jervis	2711
The American Agricultural Chem. Co., New York	Wheeler's Corn Fertilizer	Sherburne	2534
The American Agricultural Chem. Co., New York	Wheeler's Fruit and Grain Grower	Delanson	2279
The American Agricultural Chem. Co., New York	Wheeler's High Grade Phosphate and Potash	Apulia	2548
The American Agricultural Chem. Co., New York	Wheeler's Peerless Acid Phosphate	Delanson	2723

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2774	Guaranteed Found	1.65	8.	9.	2.
		1.87	8.69	10.93	2.38
2851	Guaranteed Found	.82	8.	9.	4.
		.97	9.37	9.93	6.58
2609	Guaranteed Found	3.29	8.	9.	7.
		3.21	8.67	10.69	6.72
2262	Guaranteed Found	1.03	8.	9.	2.
		1.20	8.54	10.13	2.26
2260	Guaranteed Found	—	10.	11.	2.
		—	10.65	11.48	2.12
2261	Guaranteed Found	2.06	8.	9.	3.
		2.19	8.23	9.08	3.44
2662	Guaranteed Found	4.94	8.	9.	5.
		5.	8.44	9.61	4.88
2661	Guaranteed Found	4.11	8.	9.	8.
		4.14	8.42	10.10	8.32
2826	Guaranteed Found	20.16	—	—	—
		20.69	—	—	—
2142	Guaranteed Found	—	10.	11.	5.
		—	9.45	11.39	5.18
2265	Guaranteed Found	1.65	8.	9.	10.
		1.67	8.04	9.68	10.84
3036	Guaranteed Found	—	—	16.	—
		—	—	16.73	—
2711	Guaranteed Found	1.24	9.	11.	2.
		1.38	9.21	10.53	2.42
2534	Guaranteed Found	1.65	8.	9.	2.
		1.81	8.37	9.77	1.98
2279	Guaranteed Found	—	10.	11.	8.
		—	10.30	10.93	8.22
2548	Guaranteed Found	—	12.	13.	5.
		—	12.27	12.51	4.94
2723	Guaranteed Found	—	14.	15.	—
		—	15.33	15.79	—

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The American Agricultural Chem. Co., New York	Wheeler's Potato Manure	Freeport	1799
The American Agricultural Chem. Co., New York	Wheeler's Royal Wheat Grower	Holcomb	3183
The American Agricultural Chem. Co., New York	Wheeler's Superior Truck	Easthampton	2670
The American Agricultural Chem. Co., New York	Wheeler's Wheat and Clover Fertilizer	Apulia	2547
The American Agricultural Chem. Co., New York	Williams & Clark's Acorn Acid Phosphate	Altamont	2284
The American Agricultural Chem. Co., New York	Williams & Clark's American Fertilizer	White Plains	3106
The American Agricultural Chem. Co., New York	Williams & Clark's American High Grade Special Fertilizer	Kingston	2263
The American Agricultural Chem. Co., New York	Williams & Clark's American Universal Fertilizer	Watervliet	3129
The American Agricultural Chem. Co., New York	Williams & Clark's "B" Fertilizer	Interlaken	3043
The American Agricultural Chem. Co., New York	Williams & Clark's Dissolved Phosphate and Potash	Interlaken	3042
The American Agricultural Chem. Co., New York	Williams & Clark's Good Grower Potato Phosphate	Port Jervis	2713
The American Agricultural Chem. Co., New York	Williams & Clark's Potato, Hop and Tobacco Fertilizer	Oneida	3001
The American Agricultural Chem. Co., New York	Williams & Clark's Potato Phosphate	Kingston	2264
The American Agricultural Chem. Co., New York	Williams & Clark's Potato Phosphate	Watervliet	3128
The American Agricultural Chem. Co., New York	Williams & Clark's Prolific Fertilizer	Altamont	2285

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
1799	Guaranteed Found	2.06 2.16	8. 8.33	9. 9.16	3. 3.66
3183	Guaranteed Found	.82 .94	8. 8.30	9. 10.57	2. 2.22
2670	Guaranteed Found	3.29 3.55	8. 8.48	9. 9.21	7. 7.30
2547	Guaranteed Found	— —	11. 10.95	12. 11.32	2. 2.34
2284	Guaranteed Found	— —	14. 14.62	15. 15.03	— —
3106	Guaranteed Found	2.47 2.68	9. 9.98	10. 10.80	2. 2.30
2263	Guaranteed Found	3.29 3.20	8. 8.83	9. 10.27	7. 7.18
3129	Guaranteed Found	1.65 1.58	8. 9.61	9. 10.35	2. 2.34
3043	Guaranteed Found	.82 1.	8. 8.76	9. 9.52	4. 4.10
3042	Guaranteed Found	— —	10. 10.07	11. 11.33	2. 2.18
2713	Guaranteed Found	.82 1.15	8. 8.31	9. 8.87	4. 4.36
3001	Guaranteed Found	2.06 1.85	8. 8.23	9. 9.48	3. 3.38
2264	Guaranteed Found	2.47 2.27	6. 7.50	7. 8.81	6. 5.96
3128	Guaranteed Found	2.47 2.59	6. 7.04	7. 7.76	6. 7.20
2285	Guaranteed Found	.82 .95	7. 7.71	8. 8.90	1. 1.44

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The American Agricultural Chem. Co., New York	Williams & Clark's Royal Phosphate	Kingston	2266
The American Agricultural Chem. Co., New York	Zell's Dissolved Phosphate	Binghamton	2448
The American Agricultural Chem. Co., New York	Zell's Economizer Phosphate	Binghamton	2447
The American Agricultural Chem. Co., New York	Zell's Electric Phosphate	Esperance	2726
The American Agricultural Chem. Co., New York	Zell's Fruit Tree Invigorator	Preble	2549
The American Agricultural Chem. Co., New York	Zell's General Crop Fertilizer	Canandaigua	2789
The American Agricultural Chem. Co., New York	Zell's High Grade Bone and Potash	Moravia	2512
The American Agricultural Chem. Co., New York	Zell's High Grade Wheat and Corn Manure	Binghamton	2042
The American Agricultural Chem. Co., New York	Zell's Special Potato and Cabbage Manure	Canandaigua	2788
American Fertilizing Co., Baltimore, Md.	American Champion Grain Grower	Moravia	2509
American Fertilizing Co., Baltimore, Md.	American Eagle Crop Grower	Moravia	2511
American Fertilizing Co., Baltimore, Md.	American Excelsior Guano	Caledonia	2763
American Fertilizing Co., Baltimore, Md.	American Formula Wheat and Corn	Arcade	3157
American Fertilizing Co., Baltimore, Md.	American Prize Truck Guano	South Dayton	2954
American Fertilizing Co., Baltimore, Md.	American Pure Raw Bone	South Dayton	2956
American Fertilizing Co., Baltimore, Md.	American Standard Crop Compound	Caledonia	2764
American Fertilizing Co., Baltimore, Md.	Ammoniated Bone Compound	Dansville	2999

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2266	Guaranteed Found	1.03 1.08	8. 8.89	9. 10.12	2. 2.16
2448	Guaranteed Found	— —	14. 14.	15. 15.53	— —
2447	Guaranteed Found	.82 .85	8. 8.78	9. 10.67	2. 2.04
2726	Guaranteed Found	— —	10. 10.08	11. 11.05	2. 2.28
2549	Guaranteed Found	— —	10. 9.86	11. 10.49	8. 8.44
2789	Guaranteed Found	.82 .87	8. 8.24	9. 9.08	4. 4.20
2512	Guaranteed Found	— —	12. 12.43	13. 12.74	5. 4.92
2042	Guaranteed Found	1.65 1.68	10. 10.31	11. 12.60	4. 3.94
2788	Guaranteed Found	.82 .79	9. 10.12	10. 12.12	7. 6.72
2509	Guaranteed Found	.82 .94	8. 8.48	9. 11.38	4. 4.08
2511	Guaranteed Found	1.65 1.66	8. 8.15	9. 10.73	2. 2.04
2763	Guaranteed Found	1.65 1.65	8. 8.29	9. 10.38	5. 5.24
3157	Guaranteed Found	— —	10. 10.51	11. 11.47	5. 5.68
2954	Guaranteed Found	1.65 1.84	8. 8.06	9. 9.48	10. 9.96
2956	Guaranteed Found	3.70 4.12	— —	22.50 21.78	— —
2764	Guaranteed Found	— —	10. 10.17	11. 11.13	8. 8.76
2999	Guaranteed Found	.82 1.03	8. 9.30	9. 11.71	2. 2.52

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
American Fertilizing Co., Baltimore, Md.	Dissolved Bone and Potash	Hamlin	2980
American Fertilizing Co., Baltimore, Md.	Double Extra Bone and Potash	Moravia	2510
American Fertilizing Co., Baltimore, Md.	High Grade Acid Phosphate	Batavia	2472
American Fertilizing Co., Baltimore, Md.	10% Tankage	South Dayton	2955
Armour Fertilizer Works, Baltimore, Md.	Armour's All Soluble Fertilizer	Homer	2401
Armour Fertilizer Works, Baltimore, Md.	Armour's Ammoniated Bone with Potash	Eden Center	2618
Armour Fertilizer Works, Baltimore, Md.	Armour's Banner Brand Fertilizer	McDonough	2184
Armour Fertilizer Works, Baltimore, Md.	Armour's Bean and Farm Fertilizer	Warsaw	2993
Armour Fertilizer Works, Baltimore, Md.	Armour's Blood	Rochester	2780
Armour Fertilizer Works, Baltimore, Md.	Armour's Blood Fertilizer	Wayland	3031
Armour Fertilizer Works, Baltimore, Md.	Armour's Bone, Blood and Potash	Riverhead	2302
Armour Fertilizer Works, Baltimore, Md.	Armour's Bone Meal Fertilizer	Syracuse	2560
Armour Fertilizer Works, Baltimore, Md.	Armour's Cauliflower, Celery and Potato Mixture	Aquebogue	2349
Armour Fertilizer Works, Baltimore, Md.	Armour's Crop Grower Fertilizer	Boonville	2686
Armour Fertilizer Works, Baltimore, Md.	Armour's 5-35 Tankage	Mumford	2762
Armour Fertilizer Works, Baltimore, Md.	Armour's Fruit and Root Crop Special Fertilizer	McDonough	2185
Armour Fertilizer Works, Baltimore, Md.	Armour's Grain Grower Fertilizer	McDonough	2183

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2980	Guaranteed Found	———— ————	10. 10.33	11. 11.83	2. 2.28
2510	Guaranteed Found	———— ————	12. 12.18	13. 13.64	5. 5.38
2472	Guaranteed Found	———— ————	14. 14.60	15. 17.02	———— ————
2955	Guaranteed Found	9.23 7.19	———— ————	———— 9.37	———— ————
2401	Guaranteed Found	2.88 3.15	8. 7.96	———— 9.05	4. 4.06
2618	Guaranteed Found	2.47 2.41	6. 6.24	———— 7.01	2. 2.42
2184	Guaranteed Found	———— ————	10. 10.52	———— 10.87	8. 8.02
2993	Guaranteed Found	———— ————	8. 8.59	———— 8.78	4. 3.94
2780	Guaranteed Found	9.90 9.32	———— ————	———— ————	———— ————
3031	Guaranteed Found	13. 13.50	———— ————	———— ————	———— ————
2302	Guaranteed Found	4.11 3.96	8. 7.97	———— 9.18	7. 7.30
2560	Guaranteed Found	2.47 2.49	———— ————	22.50 24.31	———— ————
2349	Guaranteed Found	4.94 5.23	8. 7.28	———— 9.14	5. 5.30
2686	Guaranteed Found	.82 .87	8. 8.31	———— 8.94	2. 2.14
2762	Guaranteed Found	4.11 4.08	———— ————	16. 14.97	———— ————
2185	Guaranteed Found	1.65 1.81	8. 7.94	———— 8.83	5. 5.30
2183	Guaranteed Found	1.65 1.73	8. 8.04	———— 9.33	2. 2.52

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Armour Fertilizer Works, Baltimore, Md.	Armour's High Grade Potato Fertilizer	Homer	2402
Armour Fertilizer Works, Baltimore, Md.	Armour's High Grade Potato Fertilizer	Walden	2706
Armour Fertilizer Works, Baltimore, Md.	Armour's Manure Substitute Fertilizer	Middletown	2292
Armour Fertilizer Works, Baltimore, Md.	Armour's Manure Substitute Fertilizer	Sidney Center	3024
Armour Fertilizer Works, Baltimore, Md.	Armour's Phosphate and Potash No. 1	Le Roy	2112
Armour Fertilizer Works, Baltimore, Md.	Armour's Potato and Grain Special Fertilizer	Holley	2149
Armour Fertilizer Works, Baltimore, Md.	Armour's Potato Special Fertilizer	Holley	2459
Armour Fertilizer Works, Baltimore, Md.	Armour's Raw Bone Meal	Rochester	2646
Armour Fertilizer Works, Baltimore, Md.	Armour's 6 & 30 Tankage Fertilizer	Riverhead	2317
Armour Fertilizer Works, Baltimore, Md.	Armour's Special Potato Grower	Hempstead	1797
Armour Fertilizer Works, Baltimore, Md.	Armour's Star Phosphate	Wards Island	2202
Armour Fertilizer Works, Baltimore, Md.	Armour's Star Phosphate Fertilizer	Riverhead	2325
Armour Fertilizer Works, Baltimore, Md.	Armour's Trucker's Special Fertilizer	Middletown	2293
Armour Fertilizer Works, Baltimore, Md.	Armour's Wheat and Clover Fertilizer	Le Roy	2113
Armour Fertilizer Works, Baltimore, Md.	Armour's Wheat, Corn and Oat Special Fertilizer	Newburgh	2714
Armour Fertilizer Works, Baltimore, Md.	Armour's York State Special Fertilizer	Homer	2403

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2402	Guaranteed Found	1.65 1.74	8. 8.26	— 9.19	10. 10.46
2706	Guaranteed Found	1.65 1.90	8. 8.	— 9.36	10. 10.38
2292	Guaranteed Found	3.29 2.78	6. 6.61	— 7.22	4. 4.48
3024	Guaranteed Found	3.29 3.28	6. 6.11	— 6.99	4. 4.62
2112	Guaranteed Found	— —	10. 9.83	— 10.78	2. 1.96
2149	Guaranteed Found	.82 .93	9. 7.88	— 8.95	7. 7.72
2459	Guaranteed Found	2.06 2.43	6. 6.02	— 6.69	6. 6.42
2646	Guaranteed Found	3.70 4.37	— —	22. 22.47	— —
2317	Guaranteed Found	4.94 5.05	— —	13.74 17.20	— —
1797	Guaranteed Found	3.29 3.54	8. 7.39	— 8.81	7. 7.94
2202	Guaranteed Found	— —	14. 13.63	— 15.91	— —
2325	Guaranteed Found	— —	14. 13.94	— 15.53	— —
2293	Guaranteed Found	3.29 3.07	6. 5.85	— 6.53	10. 11.44
2113	Guaranteed Found	— —	10. 10.13	— 10.83	5. 4.94
2714	Guaranteed Found	.82 .90	7. 6.95	— 8.48	1. 1.28
2403	Guaranteed Found	.82 .95	8. 8.28	— 9.11	4. 4.64

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Armour Fertilizer Works, Baltimore, Md.	Blood	Central Islip	2220
Armour Fertilizer Works, Baltimore, Md.	Dried Blood	Wards Island	1800
Armour Fertilizer Works, Baltimore, Md.	Dried Blood	Kings Park	2225
Armour Fertilizer Works, Baltimore, Md.	Fanning & Young's Special Potato Manure	Aquebogue	2375
Armour Fertilizer Works, Baltimore, Md.	Genuine German Kainit	Granville	2883
Armour Fertilizer Works, Baltimore, Md.	Muriate of Potash	Wards Island	2203
Armour Fertilizer Works, Baltimore, Md.	Muriate of Potash	Central Islip	2221
Armour Fertilizer Works, Baltimore, Md.	Muriate of Potash	Kings Park	2223
Armour Fertilizer Works, Baltimore, Md.	Muriate of Potash	Riverhead	2326
Armour Fertilizer Works, Baltimore, Md.	Nitrate of Soda	Wards Island	2201
Armour Fertilizer Works, Baltimore, Md.	Nitrate of Soda	Central Islip	2222
Armour Fertilizer Works, Baltimore, Md.	Nitrate of Soda	Kings Park	2224
Armour Fertilizer Works, Baltimore, Md.	Special Mixture	Wayland	3032
Armour Fertilizer Works, Baltimore, Md.	Sulphate of Potash	Peconic	2390
Armour Fertilizer Works, Baltimore, Md.	Sulphate of Potash	Amenia	2894
Armour Fertilizer Works, Baltimore, Md.	Sulphate of potash	Hornell	3025
Atlantic Fertilizer Co., Baltimore, Md.	Atlantic's Arrow Brand Special	Durhamville	3003

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2220	Guaranteed Found	13. 14.19	— —	— —	— —
1800	Guaranteed Found	9.86 10.42	— —	— —	— —
2225	Guaranteed Found	9.84 10.18	— —	— —	— —
2375	Guaranteed Found	3.29 3.66	7. 7.02	— 9.17	5. 4.92
2883	Guaranteed Found	— —	— —	— —	12. 13.38
2203	Guaranteed Found	— —	— —	— —	48. 53.12
2221	Guaranteed Found	— —	— —	— —	48. 49.92
2223	Guaranteed Found	— —	— —	— —	48. 53.32
2326	Guaranteed Found	— —	— —	— —	48. 45.32
2201	Guaranteed Found	14.81 15.71	— —	— —	— —
2222	Guaranteed Found	15. 15.64	— —	— —	— —
2224	Guaranteed Found	14.81 15.64	— —	— —	— —
3032	Guaranteed Found	— 3.47	— —	— 15.35	— —
2390	Guaranteed Found	— —	— —	— —	48. 49.04
2894	Guaranteed Found	— —	— —	— —	48. 49.60
3025	Guaranteed Found	— —	— —	— —	50. 50.
3003	Guaranteed Found	.82 .85	8. 8.01	9. 8.63	4. 4.24

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Atlantic Fertilizer Co., Baltimore, Md.	Atlantic's Big Four Blood, Bone, Fish and Potash	Durhamville	3004
Atlantic Fertilizer Co., Baltimore, Md.	Atlantic's Crop Producer	Elmira	3019
Atlantic Fertilizer Co., Baltimore, Md.	Atlantic's Farmer's Alkaline Mixture	Elmira	3017
Atlantic Fertilizer Co., Baltimore, Md.	Atlantic's G. G. G. Golden Grain Grower	Elmira	3018
Atlantic Fertilizer Co., Baltimore, Md.	Atlantic's XX Special Compound for Potatoes	Durhamville	3002
Baltimore Pulverizing Co., Baltimore, Md.	Special 7% Potato Guano	Elmira	3016
Baugh & Sons Co., Baltimore, Md.	Baugh's Commercial Super-Phosphate for General Use	Moravia	2518
Baugh & Sons Co., Baltimore, Md.	Baugh's Complete Animal Base Fertilizer	Moravia	2519
Baugh & Sons Co., Baltimore, Md.	Baugh's High Grade Acid Phosphate	Potsdam	2672
Baugh & Sons Co., Baltimore, Md.	Baugh's Phosphate and Potash	Moravia	2517
Baugh & Sons Co., Baltimore, Md.	Baugh's Raw Bone Meal	Arkport	3029
Baugh & Sons Co., Baltimore, Md.	Muriate of Potash	Potsdam	2673
Baugh & Sons Co., Baltimore, Md.	Tankage	Arkport	3030
Baugh & Sons Co., Baltimore, Md.	12 & 5 Phosphate and Potash	Moravia	2520
The Berg Co., Philadelphia, Pa.	Berg's High Grade Potato Manure	Ossining	3115
The Berg Co., Philadelphia, Pa.	Berg's High Grade Truck Guano	Ossining	3116

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
3004	Guaranteed Found	2.47 1.96	6. 6.80	7. 7.32	6. 6.64
3019	Guaranteed Found	.41 .87	8. 8.44	9. 9.09	2. 2.34
3017	Guaranteed Found	— —	10. 10.11	11. 10.16	2. 1.94
3018	Guaranteed Found	1.65 1.56	9. 9.08	10. 9.33	4. 4.12
3002	Guaranteed Found	1.65 1.56	8. 8.66	9. 9.35	10. 9.94
3016	Guaranteed Found	5.75 4.79	6. 7.17	— 7.57	5. 4.40
2518	Guaranteed Found	1.65 2.28	8. 8.02	— 8.96	10. 10.24
2519	Guaranteed Found	1.65 1.81	8. 8.25	— 9.51	5. 5.58
2672	Guaranteed Found	— —	14. 15.50	— 16.10	— —
2517	Guaranteed Found	— —	10. 10.65	— 11.92	8. 8.10
3029	Guaranteed Found	3.70 3.54	— —	21.50 21.70	— —
2673	Guaranteed Found	— —	— —	— —	48. 51.16
3030	Guaranteed Found	9. 9.32	— —	— —	— —
2520	Guaranteed Found	— —	12. 12.30	— 13.34	5. 5.24
3115	Guaranteed Found	3. 2.54	8. 9.38	— 11.95	10. 4.97
3116	Guaranteed Found	5. 4.42	7. 7.56	— 9.63	6. 5.44

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The Berg Co., Philadelphia, Pa.	Berg's Raw Bone Fine	Ossining	3118
The Berg Co., Philadelphia, Pa.	Berg's S. B. M. Standard Bone Manure	Ossining	3117
Berkshire Fertilizer Co., Bridgeport, Conn.	Berkshire Ammoniated Bone Phosphate	East Schodack	2722
Berkshire Fertilizer Co., Bridgeport, Conn.	Berkshire Complete Fertilizer	Jamesport	2356
Berkshire Fertilizer Co., Bridgeport, Conn.	Berkshire Long Island Special	Orient	2656
Bonora Chemical Co., New York, N. Y.	Bonora	New York	3062
Bowker Fertilizer Co., New York, N. Y.	Bowker's Ammoniated Dissolved Bone	North Collins	2632
Bowker Fertilizer Co., New York, N. Y.	Bowker's Ammoniated Food for Flowers	Syracuse	2522
Bowker Fertilizer Co.; New York, N. Y.	Bowker's Best Grain Fertilizer	Schuylerville	2869
Bowker Fertilizer Co., New York, N. Y.	Bowker's Blood, Bone and Potash	Riverhead	2347
Bowker Fertilizer Co., New York, N. Y.	Bowker's Corn and Grain Fertilizer	Mattituck	2355
Bowker Fertilizer Co., New York, N. Y.	Bowker's Corn and Grain Grower	Windsor	2172
Bowker Fertilizer Co., New York, N. Y.	Bowker's Corn and Wheat Guano	Gasport	2496
Bowker Fertilizer Co., New York, N. Y.	Bowker's Dissolved Phosphate	Windsor	2181
Bowker Fertilizer Co., New York, N. Y.	Bowker's Dissolved Phosphate	Windsor	3047
Bowker Fertilizer Co., New York, N. Y.	Bowker's Early Potato Manure	Hicksville	1783
Bowker Fertilizer Co., New York, N. Y.	Bowker's Empire State Phosphate and Potash	Windsor	2182

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
3118	Guaranteed Found	3. 3.78	— —	20. 22.48	— —
3117	Guaranteed Found	3. 2.52	8. 8.88	— 11.02	6. 5.96
2722	Guaranteed Found	.8 1.45	8. 8.34	9. 8.84	2. 2.88
2356	Guaranteed Found	2.5 2.70	8. 7.43	9. 8.75	6. 6.62
2656	Guaranteed Found	3.3 3.30	6. 6.41	8. 6.72	7. 8.68
3062	Guaranteed Found	15. 15.54	3. 5.52	— 5.53	3. 3.80
2632	Guaranteed Found	1.65 1.61	8. 8.64	9. 10.85	2. 1.96
2522	Guaranteed Found	2.47 2.61	6. 7.19	— 9.14	2. 3.22
2869	Guaranteed Found	1.23 1.29	10. 9.99	11. 11.44	6. 6.20
2347	Guaranteed Found	4.11 4.23	7. 7.07	8. 8.72	7. 7.14
2355	Guaranteed Found	2.47 2.74	8. 7.93	9. 9.42	4. 4.38
2172	Guaranteed Found	.82 .98	8. 7.60	9. 9.44	4. 4.26
2496	Guaranteed Found	1.65 1.80	8. 8.26	9. 10.35	4. 3.97
2181	Guaranteed Found	— —	11. 13.64	12. 15.11	— —
3047	Guaranteed Found	— —	11. 14.24	12. 15.09	— —
1783	Guaranteed Found	3.29 3.42	7. 7.07	8. 8.92	7. 7.32
2182	Guaranteed Found	— —	8. 7.95	9. 10.30	3. 8.62

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Bowker Fertilizer Co., New York, N. Y.	Bowker's Empire State Phosphate and Potash	Windsor	3046
Bowker Fertilizer Co., New York, N. Y.	Bowker's Farm and Garden Phosphate	Huntington	2207
Bowker Fertilizer Co., New York, N. Y.	Bowker's Fresh Ground Bone	Huntington	2206
Bowker Fertilizer Co., New York, N. Y.	Bowker's Golden Harvest Fertilizer	Groton	2505
Bowker Fertilizer Co., New York, N. Y.	Bowker's Hill and Drill Phosphate	Syracuse	2434
Bowker Fertilizer Co., New York, N. Y.	Bowker's Hop and Potato Phosphate with Extra Potash	Cherry Valley	2741
Bowker Fertilizer Co., New York, N. Y.	Bowker's Lawn and Garden Dressing	Binghamton	2539
Bowker Fertilizer Co., New York, N. Y.	Bowker's Market Garden Fertilizer	Hicksville	1781
Bowker Fertilizer Co., New York, N. Y.	Bowker's Potash Fertilizer	Delhi	2596
Bowker Fertilizer Co., New York, N. Y.	Bowker's Potash or Staple Phosphate	Ogdensburg	2908
Bowker Fertilizer Co., New York, N. Y.	Bowker's Potato and Vegetable Fertilizer	Schuylerville	2868
Bowker Fertilizer Co., New York, N. Y.	Bowker's Six Per Cent Potato Fertilizer	Windsor	2179
Bowker Fertilizer Co., New York, N. Y.	Bowker's Soluble Phosphate	Iroquois	2633
Bowker Fertilizer Co., New York, N. Y.	Bowker's Special Crop Grower	Batavia	2478
Bowker Fertilizer Co., New York, N. Y.	Bowker's Super Phosphate with Potash for Grass and Grain	Greenwich	2867
Bowker Fertilizer Co., New York, N. Y.	Bowker's Sure Crop Phosphate	Syracuse	2436

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
3046	Guaranteed Found	— —	8. 8.03	9. 9.76	3. 9.82
2207	Guaranteed Found	1.65 1.64	8. 8.30	9. 9.22	2. 2.12
2206	Guaranteed Found	2.47 2.56	— —	22.88 24.03	— —
2505	Guaranteed Found	— —	12. 11.94	13. 13.01	5. 5.36
2434	Guaranteed Found	2.47 2.65	9. 7.97	10. 9.67	2. 2.68
2741	Guaranteed Found	.82 1.20	8. 8.16	9. 9.01	5. 5.40
2539	Guaranteed Found	3.29 3.24	4. 4.83	8. 8.89	5. 5.44
1781	Guaranteed Found	2.47 2.46	6. 5.83	7. 7.69	10. 10.46
2596	Guaranteed Found	.82 1.09	6. 6.21	7. 7.23	2. 2.12
2908	Guaranteed Found	.82 .85	8. 8.20	9. 9.24	3. 3.80
2868	Guaranteed Found	2.47 2.83	8. 8.52	9. 9.68	4. 4.50
2179	Guaranteed Found	.82 .95	6. 6.82	7. 7.65	6. 6.40
2633	Guaranteed Found	— —	14. 14.34	15. 17.03	— —
2478	Guaranteed Found	1.65 1.60	8. 8.89	9. 10.41	10. 11.04
2867	Guaranteed Found	— —	10. 10.64	11. 12.78	2. 4.20
2436	Guaranteed Found	.82 .88	9. 8.73	10. 9.89	2. 2.22

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Bowker Fertilizer Co., New York, N. Y.	Bowker's Ten and Eight	Windsor	2173
Bowker Fertilizer Co., New York, N. Y.	Bowker's Ten Per Cent Manure	Windsor	2180
Bowker Fertilizer Co., New York, N. Y.	Genuine German Kainit	North Collins	2643
Bowker Fertilizer Co., New York, N. Y.	Muriate of Potash	Schuylerville	2871
Bowker Fertilizer Co., New York, N. Y.	Nitrate of Soda	Mattituck	2353
Bowker Fertilizer Co., New York, N. Y.	Nitrate of Soda	Iroquois	2634
Bowker Fertilizer Co., New York, N. Y.	Stockbridge Special Complete Manure for Corn and All Grain Crops	Batavia	2479
Bowker Fertilizer Co., New York, N. Y.	Stockbridge Special Complete Manure for Potatoes and Vegetables (1)	Windsor	2178
Bowker Fertilizer Co., New York, N. Y.	Stockbridge Special Complete Manure for Seeding Down, Permanent Dressing and Legumes 4	Centerville	2588
Bowker Fertilizer Co., New York, N. Y.	Stockbridge Special Complete Manure for Top Dressing and for Forcing (3)	Syracuse	2435
Bradley and Green Fertilizer Co., Philadelphia, Pa.	Market Garden	Mineola	2233
The Buffalo Fertilizer Co., Buffalo, N. Y.	Animal Tankage	Buffalo	3179
The Buffalo Fertilizer Co., Buffalo, N. Y.	Bone Meal	Hamburg	2622
The Buffalo Fertilizer Co., Buffalo, N. Y.	Buffalo 5-8-7	Riverhead	2378
The Buffalo Fertilizer Co., Buffalo, N. Y.	Buffalo 5-7-10	South Lima	3170

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2173	Guaranteed Found	— —	10. 9.74	11. 11.38	8. 8.68
2180	Guaranteed Found	.82 1.08	5. 5.18	6. 6.15	10. 9.96
2643	Guaranteed Found	— —	— —	— —	12. 11.87
2871	Guaranteed Found	— —	— —	— —	49. 50.42
2353	Guaranteed Found	15. 15.34	— —	— —	— —
2634	Guaranteed Found	15. 15.10	— —	— —	— —
2479	Guaranteed Found	3.29 3.44	10. 9.88	11. 11.44	7. 7.06
2178	Guaranteed Found	3.29 3.26	6. 6.15	7. 8.08	10. 9.72
2588	Guaranteed Found	2.47 2.61	6. 6.13	9. 7.26	10. 10.68
2435	Guaranteed Found	4.94 4.13	4. 4.57	6. 6.17	6. 6.46
2233	Guaranteed Found	3.25 3.28	8. 8.06	— 8.93	6. 5.76
3179	Guaranteed Found	6.1 6.58	— —	— —	— —
2622	Guaranteed Found	2.9 2.77	— —	22. 21.30	— —
2378	Guaranteed Found	4.10 4.04	8. 7.80	9. 9.08	7. 7.40
3170	Guaranteed Found	4.11 3.80	7. 8.09	8. 8.71	10. 10.34

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The Buffalo Fertilizer Co., Buffalo, N. Y.	Celery and Potato Special	Fancher	2146
The Buffalo Fertilizer Co., Buffalo, N. Y.	Celery and Potato Special	Boonville	2699
The Buffalo Fertilizer Co., Buffalo, N. Y.	Dissolved Phosphate	South Byron	2751
The Buffalo Fertilizer Co., Buffalo, N. Y.	Dissolved Phosphate	Collins	2800
The Buffalo Fertilizer Co., Buffalo, N. Y.	Dried Blood	South Byron	2752
The Buffalo Fertilizer Co., Buffalo, N. Y.	Dried Blood	Collins	2799
The Buffalo Fertilizer Co., Buffalo, N. Y.	Extra Phosphate and Potash	Newfane	2601
The Buffalo Fertilizer Co., Buffalo, N. Y.	Extra Phosphate and Potash	Silver Creek	2649
The Buffalo Fertilizer Co., Buffalo, N. Y.	Farmers Choice	Owego	2449
The Buffalo Fertilizer Co., Buffalo, N. Y.	Fish Guano	Fancher	2141
The Buffalo Fertilizer Co., Buffalo, N. Y.	Fish Tankage	Fairport	2975
The Buffalo Fertilizer Co., Buffalo, N. Y.	Floats	Brocton	2963
The Buffalo Fertilizer Co., Buffalo, N. Y.	Garbage Tankage	Oakfield	2770
The Buffalo Fertilizer Co., Buffalo, N. Y.	Garden Truck	Batavia	2607
The Buffalo Fertilizer Co., Buffalo, N. Y.	Garden Truck	Silver Creek	2648
The Buffalo Fertilizer Co., Buffalo, N. Y.	General Crop	Norwich	2529
The Buffalo Fertilizer Co., Buffalo, N. Y.	General Favorite	Savannah	2971

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2146	Guaranteed Found	1.6 1.82	8. 8.67	9. 9.31	10. 10.08
2699	Guaranteed Found	1.6 1.85	8. 8.99	9. 9.54	10. 9.74
2751	Guaranteed Found	— —	14. 13.56	15. 14.63	— —
2800	Guaranteed Found	— —	14. 13.20	15. 14.67	— —
2752	Guaranteed Found	9.84 10.40	— —	— —	— —
2799	Guaranteed Found	9.84 10.50	— —	— —	— —
2601	Guaranteed Found	— —	10. 9.87	11. 11.13	8. 8.18
2649	Guaranteed Found	— —	10. 10.13	11. 11.15	8. 7.74
2449	Guaranteed Found	.8 1.30	8. 8.46	9. 10.39	5. 6.
2141	Guaranteed Found	.8 .90	9. 8.58	10. 10.64	2. 2.34
2975	Guaranteed Found	6.5 7.59	— —	8 2.47	— —
2963	Guaranteed Found	— —	— —	25. 28.21	— —
2770	Guaranteed Found	2.25 2.61	— —	4. 3.94	.75 .72
2607	Guaranteed Found	3.3 3.36	8. 7.52	9. 9.23	7. 8.02
2648	Guaranteed Found	3.3 3.59	8. 7.47	9. 9.05	7. 7.56
2529	Guaranteed Found	— —	9. 9.09	10. 10.50	3. 2.92
2971	Guaranteed Found	1.2 1.66	8. 8.47	9. 10.65	2.5 2.74

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The Buffalo Fertilizer Co., Buffalo, N. Y.	High Grade Manure	Lockport	2487
The Buffalo Fertilizer Co., Buffalo, N. Y.	Ideal Wheat and Corn	Fancher	2144
The Buffalo Fertilizer Co., Buffalo, N. Y.	Ideal Wheat and Corn	Boonville	2700
The Buffalo Fertilizer Co., Buffalo, N. Y.	Kainit	Brocton	2964
The Buffalo Fertilizer Co., Buffalo, N. Y.	Muriate of Potash	Iroquois	2636
The Buffalo Fertilizer Co., Buffalo, N. Y.	Muriate of Potash	Rochester	2781
The Buffalo Fertilizer Co., Buffalo, N. Y.	Muriate of Potash	Collins	2798
The Buffalo Fertilizer Co., Buffalo, N. Y.	Muriate of Potash	Ogdensburg	2906
The Buffalo Fertilizer Co., Buffalo, N. Y.	Nitrate of Soda	Riverhead	2379
The Buffalo Fertilizer Co., Buffalo, N. Y.	Phosphate and Potash	Moravia	2521
The Buffalo Fertilizer Co., Buffalo, N. Y.	Pure Raw Bone	Elmira	3023
The Buffalo Fertilizer Co., Buffalo, N. Y.	Sulphate of Potash	Buffalo	3180
The Buffalo Fertilizer Co., Buffalo, N. Y.	Tankage	Brocton	2962
The Buffalo Fertilizer Co., Buffalo, N. Y.	Vegetable and Potato	Owego	2450
Butts, J. P., Oneonta, N. Y.	High Grade Hop Fertilizer	Oneonta	2805
Butts, J. P., Oneonta, N. Y.	Hustler	Oneonta	2806
Butts, J. P., Oneonta, N. Y.	Potato Manure No. 1	Oneonta	2804

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2487	Guaranteed Found	3.3 4.30	7. 7.37	8. 8.99	10. 12.44
2144	Guaranteed Found	1.6 2.04	9. 10.29	10. 11.36	5. 6.10
2700	Guaranteed Found	1.6 1.65	9. 10.04	10. 10.58	5. 5.58
2964	Guaranteed Found	— —	— —	— —	12. 16.24
2636	Guaranteed Found	— —	— —	— —	48. 49.82
2781	Guaranteed Found	— —	— —	— —	48. 50.68
2798	Guaranteed Found	— —	— —	— —	48. 52.32
2906	Guaranteed Found	— —	— —	— —	48. 50.66
2379	Guaranteed Found	15. 15.35	— —	— —	— —
2521	Guaranteed Found	— —	12. 11.77	13. 13.02	5. 5.08
3023	Guaranteed Found	3.3 2.85	— —	23. 23.98	— —
3180	Guaranteed Found	— —	— —	— —	48. 50.76
2962	Guaranteed Found	6.15 6.26	— —	— 12.22	— —
2450	Guaranteed Found	2.4 2.40	8. 8.	9. 8.97	7. 7.62
2805	Guaranteed Found	3.29 3.24	7. 7.22	8. 8.83	10. 10.76
2806	Guaranteed Found	.82 .98	8. 8.37	9. 9.78	4. 4.22
2804	Guaranteed Found	2.47 2.59	8. 8.14	9. 9.45	7. 7.42

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Butts, J. P., Oneonta, N. Y.	Standard No. 1	Oneonta	2839
Carpenter Sanitary Rendering Works, Elmira, N. Y.	Tankage	Elmira	3020
Case & Co., A. H., East Buffalo, N. Y.	Case's Complete Fertilizer No. 1 with Manure Filler	Basom	2768
Case & Co., A. H., East Buffalo, N. Y.	Excelsior Brand Pulverized Pig Manure	Basom	2766
Case & Co., A. H., East Buffalo, N. Y.	Excelsior Brand Pulverized Sheep Manure	Basom	2767
The E. D. Chittenden Co., Bridgeport, Conn.	Chittenden's Potato and Cauliflower	Mattituck	2318
The E. D. Chittenden Co., Bridgeport, Conn.	Chittenden's Potato and Cauliflower	Whitestone	3070
The E. D. Chittenden Co., Bridgeport, Conn.	Chittenden's Potato and Grain	Floral Park	1798
The E. D. Chittenden Co., Bridgeport, Conn.	Chittenden's Potato Special	East Williston	1774
The E. D. Chittenden Co., Bridgeport, Conn.	Nitrate of Soda	East Williston	1775
Clark & Son, O. W., Buffalo, N. Y.	Clark's Velvet Lawn Fertilizer	Buffalo	2757
Clark & Son, O. W., Buffalo, N. Y.	Plant Food	Buffalo	2756
The Clark-Baylis Co., Milford, Conn.	Corn & Cabbage Special Manure	Floral Park	2235
The Clark-Baylis Co., Milford, Conn.	Special High Grade with 10% Potash	Floral Park	2234
Clay & Son, Stratford, London, Eng.	Clay's Fertilizer	Rochester	2647
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's Celebrated Special Potato Fertilizer	Wright	2606

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2839	Guaranteed Found	1.23	8.	9.	2.50
		1.35	8.40	10.01	3.20
3020	Guaranteed Found	6.57	—	6.93	—
		6.23	—	9.61	—
2768	Guaranteed Found	1.64	8.	—	4.
		1.78	8.27	9.34	4.18
2766	Guaranteed Found	1.	1.	—	1.
		1.63	1.75	1.89	7.12
2767	Guaranteed Found	1.	.87	—	1.
		1.78	.91	1.04	7.18
2318	Guaranteed Found	3.3	8.	10.	5.
		3.09	8.74	8.95	4.90
3070	Guaranteed Found	3.3	8.	10.	5.
		3.57	8.75	8.93	5.40
1798	Guaranteed Found	3.30	8.	10.	6.
		3.13	7.23	8.26	6.46
1774	Guaranteed Found	3.30	8.	10.	7.
		3.39	8.14	9.34	6.86
1775	Guaranteed Found	—	—	—	—
		14.87	—	—	—
2757	Guaranteed Found	2.	5.	—	3.
		3.08	7.96	9.10	4.20
2756	Guaranteed Found	3.50	7.	—	6.
		3.92	7.55	9.57	6.98
2235	Guaranteed Found	4.93	6.	—	6.
		4.74	6.34	8.18	6.82
2234	Guaranteed Found	3.29	6.	—	10.
		3.50	6.35	8.23	10.28
2647	Guaranteed Found	4.	1.15	7.20	.10
		4.48	2.77	8.88	.24
2606	Guaranteed Found	1.65	8.	9.	4.
		1.77	8.06	9.73	4.04

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's Columbian Corn & Potato Fertilizer	Perry	3171
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's Double Strength Potato Manure	Cortland	2156
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's Economical Potato Manure	Cherry Valley	2749
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's Empire State Brand	Savannah	2970
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's Excelsior Potato Fertilizer	West Oneonta	2842
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's Extra Special Potato Fertilizer and Fruit Grower	Cortland	2157
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's Famous Prize Brand Grain and Grass Fertilizer	Hayts Corners	2581
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's Golden Harvest Fertilizer	Cortland	2155
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's Grain and Vegetable Grower	Ithaca	2567
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's High Grade Dissolved Phosphate and Potash	Perry	2102
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's High Grade Soluble Phosphate	West Cossackie	2252
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's High Grade Soluble Phosphate	Bedford Hills	3103
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's New Englander Corn & Potato Fertilizer	Amsterdam	2854
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's Onondaga Special Fertilizer for All Crops	Ithaca	2568

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
3171	Guaranteed Found	1.23	8.50	9.50	2.50
		1.38	9.55	10.94	2.78
2156	Guaranteed Found	3.70	7.	8.50	10.
		3.72	7.56	8.54	10.54
2749	Guaranteed Found	.80	4.	5.	8.
		.93	4.28	5.69	8.30
2970	Guaranteed Found	1.23	9.	10.	6.
		1.33	9.48	11.14	6.30
2842	Guaranteed Found	2.47	7.	8.	8.
		2.62	7.86	9.13	8.24
2157	Guaranteed Found	1.65	8.	9.	10.
		1.70	8.82	10.12	9.86
2581	Guaranteed Found	—	10.	11.	2.
		—	10.38	11.24	2.20
2155	Guaranteed Found	—	10.	11.	8.
		—	10.29	10.98	7.94
2567	Guaranteed Found	.80	8.	9.	7.
		.96	8.11	9.32	7.46
2102	Guaranteed Found	—	8.	9.	5.
		—	8.29	8.93	5.44
2252	Guaranteed Found	—	14.	15.	—
		—	14.60	15.78	—
3103	Guaranteed Found	—	14.	15.	—
		—	14.24	15.79	—
2854	Guaranteed Found	.80	7.50	8.50	3.
		1.00	7.93	10.75	3.34
2568	Guaranteed Found	.80	7.	8.	1.
		.88	7.28	8.75	1.20

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's Red Brand Excelsior Guano for Market Gardening	Cortland	2153
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's Special 2-9-5 for Wheat, Corn and Cereals	Elba	2772
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's 12-5 Dissolved Phosphate and Potash	Hayts Corners	2579
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's 12 Per Cent Superphosphate	Cherry Valley	2748
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's Western New Yorker	Churchville	2484
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's XXV Ammoniated Bone Phosphate	Wright	2605
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's XXV Ammoniated Bone Phosphate	Arcade	3156
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's XXX Fine Ground Bone	Maryland	2836
The Coe-Mortimer Co., New York, N. Y.	E. Frank Coe's XXX Fine Ground Bone	Bedford Hills	3102
The Coe-Mortimer Co., New York, N. Y.	Bedford Farmers Corn and Grain Fertilizer	Bedford Hills	2897
The Coe-Mortimer Co., New York, N. Y.	Bedford Farmers Potato and Garden Fertilizer	Bedford Hills	2898
The Coe-Mortimer Co., New York, N. Y.	Bedford Farmers Potato and Garden Fertilizer	Bedford Hills	3068
The Coe-Mortimer Co., New York, N. Y.	Muriate of Potash	Bedford Hills	2900
The Coe-Mortimer Co., New York, N. Y.	Nitrate of Soda	West Coxsackie	2253
The Coe-Mortimer Co., New York, N. Y.	Nitrate of Soda	Bedford Hills	2899

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2153	Guaranteed Found	3.30	8.	9.	7.
		3.31	8.28	9.45	7.48
2772	Guaranteed Found	1.65	9.	10.	5.
		1.74	9.25	10.95	5.78
2579	Guaranteed Found	—	12.	13.	5.
		—	12.52	12.95	5.32
2748	Guaranteed Found	—	12.	13.	—
		—	13.65	15.74	—
2484	Guaranteed Found	.80	8.	9.	4.
		1.07	8.10	9.34	4.08
2605	Guaranteed Found	.80	8.50	9.50	1.50
		.87	8.40	9.32	1.44
3156	Guaranteed Found	.80	8.50	9.50	1.50
		.99	10.72	11.03	1.80
2836	Guaranteed Found	2.50	—	23.	—
		2.45	—	25.42	—
3102	Guaranteed Found	2.50	—	23.	—
		2.63	—	24.44	—
2897	Guaranteed Found	3.	8.	9.	6.
		3.40	8.43	10.38	6.
2898	Guaranteed Found	4.	10.	11.	8.
		5.45	8.72	10.26	7.80
3068	Guaranteed Found	4.	10.	11.	8.
		5.34	9.51	11.89	7.36
2900	Guaranteed Found	—	—	—	49.
		—	—	—	50.44
2253	Guaranteed Found	15.	—	—	—
		15.28	—	—	—
2899	Guaranteed Found	15.	—	—	—
		15.44	—	—	—

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The Coe-Mortimer Co., New York, N. Y.	Thomas Phosphate Powder (Basic Slag Phosphate)	Wright	2603
The Coe-Mortimer Co., New York, N. Y.	Thomas Phosphate Powder	North Collins	2642
The Coe-Mortimer Co., New York, N. Y.	Thomas Phosphate Powder (Basic Slag Phosphate)	Bedford Hills	3101
Columbia Guano Co., Baltimore, Md.	Columbia Double Ten Potash Mixture	Melrose	2888
Columbia Guano Co., Baltimore, Md.	Columbia Fish Phosphate and Potash	Berkshire	3009
Columbia Guano Co., Baltimore, Md.	Columbia 14% Acid Phosphate	Melrose	2890
Columbia Guano Co., Baltimore, Md.	Columbia Grain Special Fertilizer	Boonville	2692
Columbia Guano Co., Baltimore, Md.	Columbia High Grade Acid Phosphate	Broadalbin	3131
Columbia Guano Co., Baltimore, Md.	Columbia Manure Substitute	Melrose	2889
Columbia Guano Co., Baltimore, Md.	Columbia Premium Phosphate and Potash	Cortland	2168
Columbia Guano Co., Baltimore, Md.	Columbia Soluble Guano	Boonville	2694
Columbia Guano Co., Baltimore, Md.	Columbia Special Potato Formula	Cortland	2167
Columbia Guano Co., Baltimore, Md.	Columbia Special Potato Guano	Boonville	2331
Columbia Guano Co., Baltimore, Md.	Columbia Wheat, Corn & Grass Special Fertilizer	Melrose	2331
Columbia Guano Co., Baltimore, Md.	Genuine German Kainit	Canastota	3005
Columbia Guano Co., Baltimore, Md.	Nitrate of Soda	Cortland	2166

* No official method for the determining of available P_2O_5 in this sample.

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2603	Guaranteed Found	— —	15. *	17. 17.15	— —
2642	Guaranteed Found	— —	15. *	17. 18.56	— —
3101	Guaranteed Found	— —	15. *	17. 18.34	— —
2888	Guaranteed Found	— —	10. 9.69	10.50 10.22	10. 10.70
3009	Guaranteed Found	1.65 1.63	8. 8.57	8.50 9.53	3. 3.10
2890	Guaranteed Found	— —	14. 13.95	14.50 14.78	— —
2692	Guaranteed Found	.82 1.12	8. 8.22	8.50 9.02	2. 2.42
3131	Guaranteed Found	— —	16. 16.23	16.50 16.43	— —
2889	Guaranteed Found	1.02 1.23	8. 8.26	8.50 8.93	2. 2.76
2168	Guaranteed Found	— —	10. 9.77	10.50 10.29	8. 8.38
2694	Guaranteed Found	1.65 1.74	8. 8.16	8.50 9.13	2. 2.38
2167	Guaranteed Found	1.65 1.84	8. 7.56	8.50 8.64	10. 11.22
2691	Guaranteed Found	1.65 1.78	5. 5.47	5.50 5.98	10. 10.54
2891	Guaranteed Found	.82 .88	8. 7.98	8.50 8.43	1. 1.44
3005	Guaranteed Found	— —	— —	— —	12. 13.28
2166	Guaranteed Found	15. 15.14	— —	— —	— —

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Cooper's Fertilizer, Peter, New York, N. Y.	Five-Eight-Seven	Riverhead	2360
Cooper's Fertilizer, Peter, New York, N. Y.	Five-Ten-Five	Cutchogue	2393
Cooper's Fertilizer, Peter, New York, N. Y.	Four-Eight-Seven	Riverhead	2361
Cooper's Fertilizer, Peter, New York, N. Y.	Four-Eight-Seven	Northport	3067
Cooper's Fertilizer, Peter, New York, N. Y.	Kainit	Riverhead	2359
Cooper's Fertilizer, Peter, New York, N. Y.	Peter Cooper's Corn and Wheat Special	New Rochelle	3109
Cooper's Fertilizer, Peter, New York, N. Y.	Peter Cooper's Ground Bone	Southold	2664
Cooper's Fertilizer, Peter, New York, N. Y.	Peter Cooper's Pure Bone Dust	Jamaica	2212
Cooper's Fertilizer, Peter, New York, N. Y.	Six-Eight-Five	Cutchogue	2392
Daniels, Fred, Johnsonburg, N. Y.	Daniels Commonsense Grain and Grass Grower	Johnsonburg	3158
Davidge, William M., Brooklyn, N. Y.	Davidge's Concentrated Manure	Mineola	2231
Davidge, William M., Brooklyn, N. Y.	Davidge's Special Phosphorus	Rye	3108
Fanning, Wm. R., Riverhead, N. Y.	Mixed Fertilizer	Riverhead	2335
The Fertilizer Material Supply Co., New York, N. Y.	Acid Phosphate	Central Islip	2219
The Fertilizer Material Supply Co., New York, N. Y.	Acid Phosphate	Kings Park	2226
The Fertilizer Material Supply Co., New York, N. Y.	Acid Phosphate	Riverhead	2332
The Fertilizer Material Supply Co., New York, N. Y.	Acid Phosphate	Rochester	2779

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2360	Guaranteed Found	4.11 3.55	8. 6.29	9. 9.04	7. 7.16
2393	Guaranteed Found	4.11 4.11	10. 9.84	11. 11.13	5. 5.04
2361	Guaranteed Found	3.25 2.93	8. 6.97	9. 9.59	7. 6.98
3067	Guaranteed Found	3.25 4.43	8. 11.	9. 12.94	7. 6.22
2359	Guaranteed Found	— —	— —	— —	— 13.56
3109	Guaranteed Found	1.65 1.50	8. 7.89	9. 9.72	2. 1.96
2664	Guaranteed Found	1.26 1.47	— —	20.61 22.83	— —
2212	Guaranteed Found	2.05 2.75	— —	22.90 23.68	— —
2392	Guaranteed Found	4.94 4.86	8. 7.56	9. 9.48	5. 4.94
3158	Guaranteed Found	— —	14. 16.77	15. 16.93	— —
2231	Guaranteed Found	.20 2.44	— —	— 1.99	— .68
3108	Guaranteed Found	— .59	— —	5. 13.83	— —
2335	Guaranteed Found	— 4.38	— 7.98	— 9.25	— 8.12
2219	Guaranteed Found	— —	14. 14.74	— 15.34	— —
2226	Guaranteed Found	— —	14. 15.44	— 16.18	— —
2332	Guaranteed Found	— —	14. 16.25	— 16.96	— —
2779	Guaranteed Found	— —	14. 14.12	— 15.58	— —

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The Fertilizer Material Supply Co., New York, N. Y.	Acid Phosphate	Ogdensburg	2904
The Fertilizer Material Supply Co., New York, N. Y.	Animal Tankage	Riverhead	2340
The Fertilizer Material Supply Co., New York, N. Y.	Fish Scrap	Riverhead	2334
The Fertilizer Material Supply Co., New York, N. Y.	Muriate of Potash	Riverhead	2331
The Fertilizer Material Supply Co., New York, N. Y.	Nitrate of Soda	Riverhead	2330
The Fertilizer Material Supply Co., New York, N. Y.	Nitrate of Soda	Riverhead	2337
The Fertilizer Material Supply Co., New York, N. Y.	Nitrate of Soda	Collins	2951
The Fertilizer Material Supply Co., New York, N. Y.	No. 1 Potato and General Truck Fertilizer	Jamaica	2216
The Fertilizer Material Supply Co., New York, N. Y.	Tankage	Riverhead	2333
Flower City Plant Food Co., Rochester, N. Y.	Walker's Excelsior Plant Food	Rochester	2761
Francis, Camerden Co., Quogue, N. Y.	Humus Leaf Mold	Quogue	3066
Giddings, Burt L., Baldwinville, N. Y.	Burts' Banner	Baldwinsville	2557
Griffith & Boyd Co., Baltimore, Md.	Dried Blood	Victor	2785
Griffith & Boyd Co., Baltimore, Md.	Griffith & Boyd Co.'s Farmers Potato Manure	Venice Center	2816
Griffith & Boyd Co., Baltimore, Md.	Griffith & Boyd Co.'s Fish Bone and Potash	Victor	2783
Griffith & Boyd Co., Baltimore, Md.	Griffith & Boyd Co.'s Gilt Edge Crop Guano	Stanley	2796

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2904	Guaranteed Found	— —	14. 14.51	— 14.67	— —
2340	Guaranteed Found	6.58 6.92	— —	11.44 9.38	— —
2334	Guaranteed Found	8.57 8.36	4.45 —	5.90 5.74	— —
2331	Guaranteed Found	— —	— —	— —	50. 51.18
2330	Guaranteed Found	15. 15.65	— —	— —	— —
2337	Guaranteed Found	15. 15.36	— —	— —	— —
2951	Guaranteed Found	15. 15.65	— —	— —	— —
2216	Guaranteed Found	3.31 4.44	8. 8.64	— 10.42	7. 8.16
2333	Guaranteed Found	6.58 7.39	— —	11.44 10.35	— —
2761	Guaranteed Found	10. 8.47	12. 10.17	— 10.19	11. 13.01
3066	Guaranteed Found	.82 1.08	— —	.10 .06	.05 .00
2557	Guaranteed Found	.80 1.29	8. 9.15	— 10.89	4. 4.88
2785	Guaranteed Found	— 11.76	— —	— —	— —
2816	Guaranteed Found	.85 .98	8. 7.76	9. 9.94	9. 8.58
2783	Guaranteed Found	1.50 1.26	7. 7.58	8. 9.09	3. 3.04
2796	Guaranteed Found	1.65 1.71	8. 7.77	9. 9.85	10. 8.47

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Griffith & Boyd Co., Baltimore, Md.	Griffith & Boyd Co.'s High Grade Acid Phosphate	Victor	2787
Griffith & Boyd Co., Baltimore, Md.	Griffith & Boyd Co.'s Royal Potash Guano	Locke	2850
Griffith & Boyd Co., Baltimore, Md.	Griffith & Boyd Co.'s Special Grain Grower	Locke	2849
Griffith & Boyd Co., Baltimore, Md.	Griffith & Boyd Co.'s Special Guano	Victor	2782
Griffith & Boyd Co., Baltimore, Md.	Griffith & Boyd Co.'s 10 and 8	Victor	2784
Griffith & Boyd Co., Baltimore, Md.	Griffith & Boyd Co.'s Vegetable and Tobacco Grower	Stanley	2793
Griffith & Boyd Co., Baltimore, Md.	Griffith & Boyd Co.'s Vegetable Bone	Moravia	2814
Griffith & Boyd Co., Baltimore, Md.	Griffith & Boyd Co.'s XX Potash Manure	Moravia	2815
Griffith & Boyd Co., Baltimore, Md.	Muriate of Potash	Victor	2786
Guile, Charles, Fulton, N. Y.	Wool Waste Fertilizer	Albion	2463
Hammond's Slug Shot Works. Fishkill Landing, N. Y.	Hammond's Sward Food	Fishkill Landing	3119
Health Chemical Co., Yonkers, N. Y.	Bone Meal	Yonkers	3112
Health Chemical Co., Yonkers, N. Y.	Victor Brand	Yonkers	3113
Health Chemical Co., Yonkers, N. Y.	Westchester Brand	Yonkers	3111
Henderson & Co., Peter, New York, N. Y.	Henderson's Blood and Bone Fertilizer	New York	3055
Henderson & Co., Peter, New York, N. Y.	Henderson's Cabbage and Cauliflower Fertilizer	New York	3053
Henderson & Co., Peter, New York, N. Y.	Henderson's Corn Fertilizer	New York	3056

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2787	Guaranteed Found	— —	14. 14.55	16. 16.08	— —
2850	Guaranteed Found	.85 1.07	8. 8.23	9. 10.33	4. 4.28
2849	Guaranteed Found	— —	10. 9.54	11. 11.72	2. 2.22
2782	Guaranteed Found	1.65 1.70	8. 7.86	9. 8.84	5. 5.32
2784	Guaranteed Found	— —	10. 10.07	11. 12.	8. 7.12
2793	Guaranteed Found	1.65 2.14	6. 6.64	7. 8.80	10. 10.98
2814	Guaranteed Found	2.47 2.93	8. 7.31	9. 9.05	7. 6.64
2815	Guaranteed Found	— —	10. 10.68	11. 12.77	5. 4.17
2786	Guaranteed Found	— —	— —	— —	50. 49.08
2463	Guaranteed Found	.75 1.20	.75 .22	— .31	2. 3.12
3119	Guaranteed Found	2.35 2.38	4.50 5.	5.50 5.75	4.60 4.21
3112	Guaranteed Found	.90 1.12	10. 15.46	— 23.53	— —
3113	Guaranteed Found	— —	4. 9.72	5. 16.58	4. 9.72
3111	Guaranteed Found	.80 1.72	6. 6.78	7. 11.18	6. 4.98
3055	Guaranteed Found	2.47 2.59	8. 8.71	9. 9.83	2.50 2.78
3053	Guaranteed Found	4.11 5.27	7. 8.86	8. 9.34	7. 6.21
3056	Guaranteed Found	2.47 2.68	10. 10.06	11. 11.04	5. 5.88

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Henderson & Co., Peter, New York, N. Y.	Henderson's Garden Fertilizer	New York	3058
Henderson & Co., Peter, New York, N. Y.	Henderson's Plant Food Tablets	New York	3060
Henderson & Co., Peter, New York, N. Y.	Henderson's Potato Fertilizer	New York	3057
Henderson & Co., Peter, New York, N. Y.	Henderson's Pure Bone	New York	3054
Henderson & Co., Peter, New York, N. Y.	Henderson's Universal Superphosphate	New York	3052
Henderson & Co., Peter, New York, N. Y.	The Henderson Lawn Enricher	New York	3059
Hess & Bro., Inc., S. M., Philadelphia, Pa.	Ammoniated Superphosphate	Glen Cove	1778
Hess & Bro., Inc., S. M., Philadelphia, Pa.	Bean Fertilizer	East Marion	2396
Hess & Bro., Inc., S. M., Philadelphia, Pa.	Farmers' Grain and Clover Grower	Jamestown	2959
Hess & Bro., Inc., S. M., Philadelphia, Pa.	High Grade Ground Bone	Southold	2663
Hess & Bro., Inc., S. M., Philadelphia, Pa.	Nitrate of Soda	Riverhead	2343
Hess & Bro., Inc., S. M., Philadelphia, Pa.	Potato and Truck Manure	Glen Cove	1777
Hess & Bro., Inc., S. M., Philadelphia, Pa.	Special Cabbage Manure	Glen Head	1780
Hess & Bro., Inc., S. M., Philadelphia, Pa.	Special Compound	Glen Cove	1776
Hess & Bro., Inc., S. M., Philadelphia, Pa.	Special Corn Manure	Jamestown	2960
Hess & Bro., Inc., S. M., Philadelphia, Pa.	Special Fish and Potash Manure	Glen Head	1779
Hess & Bro., Inc., S. M., Philadelphia, Pa.	Special Potato Manure	East Williston	1773

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
3058	Guaranteed Found	4.12 4.17	7. 7.75	— 8.20	5. 5.68
3060	Guaranteed Found	7. 9.06	7. 10.71	— 10.74	7. 9.46
3057	Guaranteed Found	3.70 4.08	7. 7.78	8. 8.50	8. 8.36
3054	Guaranteed Found	2.47 3.74	— —	20. 26.25	— —
3052	Guaranteed Found	2.47 2.80	8. 9.04	9. 10.11	4. 4.20
3059	Guaranteed Found	2.47 2.42	3.50 4.95	— 5.70	2.50 2.98
1778	Guaranteed Found	1.65 2.02	8. 8.51	9. 9.66	2. 2.96
2396	Guaranteed Found	— —	10. 10.86	11. 11.20	8. 7.50
2959	Guaranteed Found	— —	10. 9.90	11. 11.61	8. 7.68
2663	Guaranteed Found	3.29 3.25	— —	20.59 22.75	— —
2343	Guaranteed Found	15. 15.51	— —	— —	— —
1777	Guaranteed Found	2.47 2.50	8. 8.40	9. 9.39	6. 6.60
1780	Guaranteed Found	3.29 3.24	6. 6.97	7. 7.93	4. 4.34
1776	Guaranteed Found	.82 1.61	8. 8.14	9. 9.25	4. 4.56
2960	Guaranteed Found	.82 1.11	8. 8.21	9. 10.15	2. 2.30
1779	Guaranteed Found	2.06 2.18	8. 8.33	9. 9.25	3. 3.66
1773	Guaranteed Found	3.29 3.53	8. 8.38	9. 9.22	7. 7.10

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The Hubbard Fertilizer Co., Baltimore, Md.	Hubbard's Famous IXL	Windsor	2584
The Hubbard Fertilizer Co., Baltimore Md.	Hubbard's 14% Phosphate	Schenevus	2835
The Hubbard Fertilizer Co., Baltimore, Md.	Hubbard's Jewel Phosphate	Schenevus	2833
The Hubbard Fertilizer Co., Baltimore, Md.	Hubbard's Oriental Phosphate	Windsor	2585
The Hubbard Fertilizer Co., Baltimore, Md.	Hubbard's 16% Phosphate	Schenevus	2834
The Hubbard Fertilizer Co., Baltimore, Md.	Hubbard's Special Potato Fertilizer	Windsor	2586
The Hubbard Fertilizer Co., Baltimore, Md.	Hubbard's 12-5 Alkaline	Windsor	2583
International Seed Co., Rochester, N. Y.	International A 1 Special Manure	Chester	2704
International Seed Co., Rochester, N. Y.	International Electric Fertilizer	Le Roy	2106
International Seed Co., Rochester, N. Y.	International Grain and Grass Fertilizer	Le Roy	2104
International Seed Co., Rochester, N. Y.	International Potato and Truck Manure	Le Roy	2105
The Jarecki Chemical Co., Sandusky, O.	Black Diamond Fish Guano	Medina	2458
The Jarecki Chemical Co., Sandusky, O.	Fish and Potash Garden Fertilizer	Albion	2119
The Jarecki Chemical Co., Sandusky, O.	Fish and Potash General Grower	Attica	2469
The Jarecki Chemical Co., Sandusky, O.	Fish and Potash Truck Manure	Gasport	2497
The Jarecki Chemical Co., Sandusky, O.	Ground Bone	Hamburg	2617
The Jarecki Chemical Co., Sandusky, O.	Humus Phosphate with Potash	Attica	2470

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2584	Guaranteed Found	1.64 1.62	8. 8.78	9. 9.52	2. 2.06
2835	Guaranteed Found	—— ——	14. 16.46	16. 17.41	—— ——
2833	Guaranteed Found	1. 1.32	8. 8.41	10. 9.08	5. 5.96
2585	Guaranteed Found	.82 .94	8. 10.09	9. 11.79	2. 2.32
2834	Guaranteed Found	—— ——	16. 16.03	—— 16.57	—— ——
2586	Guaranteed Found	3.28 3.02	6. 6.61	7. 8.76	10. 10.46
2583	Guaranteed Found	—— ——	12. 12.11	—— 14.46	5. 4.56
2704	Guaranteed Found	2.40 2.56	6. 7.12	7. 9.28	10. 10.44
2106	Guaranteed Found	.82 1.06	8. 7.88	9. 10.34	2. 2.40
2104	Guaranteed Found	1.23 1.63	10. 10.14	11. 12.84	2.50 2.76
2105	Guaranteed Found	1.23 1.38	8. 8.13	9. 10.23	7. 6.94
2458	Guaranteed Found	1.66 1.73	8. 8.26	—— 8.98	4. 4.22
2119	Guaranteed Found	1.66 1.80	8. 7.83	—— 8.25	10. 10.34
2469	Guaranteed Found	.83 .94	7. 7.89	—— 8.31	3. 3.
2497	Guaranteed Found	3.33 3.23	8. 8.16	—— 8.55	7. 7.38
2617	Guaranteed Found	2.50 2.38	—— ——	20. 24.16	—— ——
2470	Guaranteed Found	.20 .38	10. 10.79	—— 11.34	8. 7.81

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The Jarecki Chemical Co., Sandusky, O.	Special Cabbage and Onion Guano	Gasport	2493
The Jarecki Chemical Co., Sandusky, O.	Square Brand Phosphate and Potash	Attica	2471
Joynt, John, Lucknow, Ontario.	Canada Unleached Hardwood Ashes, The Joynt Brand	Owego	2501
Lalor, F. R., Dunnville, Ontario.	Maple Brand Unleached H. W. Ashes	Oneonta	2840
Lindner, P. W. F., Lynbrook, L. I.	Lindner's Complete Vegetable & Vine Fertilizer	Lynbrook	2239
Lindner, P. W. F., Lynbrook, L. I.	Lindner's High Grade Special Manure	Lynbrook	2238
Lindner, P. W. F., Lynbrook, L. I.	Lindner's Potato and Truck Fertilizer	Lynbrook	2236
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Ammoniated Dissolved Bone Phosphate	Greene	2538
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Atlas Brand Bone and Potash	Holcomb	3169
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Bone Meal	Skaneateles	2417
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Buyer's Choice Acid Phosphate	Skaneateles	2416
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Cauliflower and Cabbage Fertilizer	Otego	2843
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Cauliflower and Cabbage Fertilizer	Sanborn	2990
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Celebrated Ground Bone and Tankage Acidulated	Bloomville	2597
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Corn and Potato Fertilizer	Marathon	2049
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Corn No. 2 Fertilizer	Skaneateles	2413

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2493	Guaranteed Found	.83 .95	10. 10.10	— 10.75	8. 8.56
2471	Guaranteed Found	— —	10. 9.97	— 10.93	2. 1.52
2501	Guaranteed Found	— —	— —	1. 1.31	2. 3.42
2840	Guaranteed Found	— —	1. .48	— 1.05	3. 2.74
2239	Guaranteed Found	2. 2.93	8. 8.13	— 8.54	6. 6.14
2238	Guaranteed Found	4. 4.17	8. 8.58	— 9.06	7. 7.40
2236	Guaranteed Found	3.25 2.98	8. 8.03	— 9.01	7. 7.02
2538	Guaranteed Found	2.06 2.27	8. 8.53	9. 11.07	1.50 1.50
3169	Guaranteed Found	— —	12. 12.46	13. 12.97	5. 5.04
2417	Guaranteed Found	2.67 2.93	— —	22.88 25.95	— —
2416	Guaranteed Found	— —	14. 14.47	15. 15.37	— —
2843	Guaranteed Found	3.29 3.58	8. 8.17	9. 9.87	7. 7.42
2990	Guaranteed Found	3.29 3.43	8. 8.81	9. 10.	7. 6.84
2597	Guaranteed Found	2.67 2.84	6. 8.64	12. 12.60	— —
2049	Guaranteed Found	1.65 1.73	8. 7.68	9. 9.99	3. 3.48
2413	Guaranteed Found	1.65 1.80	10. 10.60	11. 12.16	4. 4.02

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Dissolved Phosphate and Potash	Cherry Valley	2747
Listers Agricultural Chemical Works, Newark, N. J.	Lister's G. Brand	Albion	2136
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Grain and Grass Fertilizer	Albion	2137
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Lawn Fertilizer	Schenectady	2858
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Long Island Special for Cabbage and Cauliflower	Mineola	2240
Listers Agricultural Chemical Works, Newark, N. J.	Lister's New York Special Fertilizer	Cortland	2544
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Oneida Special	Jamaica	1785
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Potato Manure	Marathon	2050
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Potato No. 2 Fertilizer	Skaneateles	2418
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Reliance	Brockport	2464
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Special Potato Fertilizer	Jamaica	1784
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Special 10% Potato Fertilizer	Skaneateles	2412
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Special Wheat Fertilizer	Syracuse	2559
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Standard Pure Bone Super-Phosphate of Lime	Binghamton	2446
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Success Fertilizer	Homer	2197
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Superior Dissolved Phosphate & Potash	Marathon	2048

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2747	Guaranteed Found	— —	10. 9.43	11. 9.72	2. 1.94
2136	Guaranteed Found	.82 .94	8. 7.92	9. 8.99	4. 4.08
2137	Guaranteed Found	— —	9. 8.89	10. 9.25	5. 5.14
2858	Guaranteed Found	1.65 2.01	8. 8.02	9. 10.06	3. 3.20
2240	Guaranteed Found	4.11 4.03	5. 5.18	6. 6.40	4. 4.76
2544	Guaranteed Found	.82 .95	8. 8.14	9. 8.91	10. 10.
1785	Guaranteed Found	.82 1.03	7. 7.46	8. 8.54	1. 2.36
2050	Guaranteed Found	3.29 3.29	8. 8.02	9. 9.84	7. 7.
2418	Guaranteed Found	1.65 1.88	10. 10.02	11. 12.14	4. 3.93
2464	Guaranteed Found	1.03 1.37	8. 8.21	9. 9.32	2. 2.16
1784	Guaranteed Found	1.65 1.83	8. 8.01	9. 10.24	3. 3.46
2412	Guaranteed Found	1.65 1.74	8. 8.01	9. 9.55	10. 10.14
2559	Guaranteed Found	1.65 1.72	8. 8.02	9. 9.92	3. 3.08
2446	Guaranteed Found	2.47 2.54	9. 8.91	10. 10.49	2. 2.48
2197	Guaranteed Found	1.23 1.23	9. 8.96	10. 10.58	2. 2.16
2048	Guaranteed Found	— —	10. 10.02	11. 10.47	8. 8.02

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Listers Agricultural Chemical Works, Newark, N. J.	Lister's 3-6-10 for Potatoes	Binghamton	2445
Listers Agricultural Chemical Works, Newark, N. J.	Lister's U. S. Super-Phosphate	Homer	2195
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Vegetable Compound	Skaneateles	2415
Listers Agricultural Chemical Works, Newark, N. J.	Lister's Wheat and Rye Fertilizer	Atlanta	3035
Listers Agricultural Chemical Works, Newark, N. Y.	Muriate of Potash	Schenectady	2859
Listers Agricultural Chemical Works, Newark, N. J.	Nitrate of Soda	Cortland	2545
Long Island Potato Exchange, Riverhead, N. Y.	Five-Eight-Eight	Mattituck	2394
Lowell Fertilizer Co., Boston, Mass.	Dried Blood	Arkport	3028
Lowell Fertilizer Co., Boston, Mass.	Kainit	Stamford	2803
Lowell Fertilizer Co., Boston, Mass.	Lowell Acid Phosphate	Middle Granville	2885
Lowell Fertilizer Co., Boston, Mass.	Lowell Animal Brand for All Crops	Cortland	2158
Lowell Fertilizer Co., Boston, Mass.	Lowell Bone Fertilizer for Corn and Grain	Cortland	2165
Lowell Fertilizer Co., Boston, Mass.	Lowell Bone Fertilizer for Corn, Grain, Grass and Vegetables	Greenport	2365
Lowell Fertilizer Co., Boston, Mass.	Lowell Cereal Fertilizer	Cortland	2162
Lowell Fertilizer Co., Boston, Mass.	Lowell Corn and Vegetable	Cortland	2159
Lowell Fertilizer Co., Boston, Mass.	Lowell Dissolved Bone and Potash	Hoosick Falls	2878

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2445	Guaranteed Found	2.47 2.62	6. 6.23	7. 8.21	10. 10.36
2195	Guaranteed Found	1.03 1.28	8. 7.66	9. 9.17	2. 2.32
2415	Guaranteed Found	3.29 3.32	8. 8.69	9. 10.21	7. 6.90
3035	Guaranteed Found	1.65 1.77	8. 8.70	9. 9.88	2. 2.34
2859	Guaranteed Found	— —	— —	— —	49. 49.84
2545	Guaranteed Found	15. 15.46	— —	— —	— —
2394	Guaranteed Found	— 4.50	— 6.92	— 8.68	— 8.88
3028	Guaranteed Found	9.84 10.12	— —	— —	— —
2803	Guaranteed Found	— —	— —	— —	12. 13.42
2885	Guaranteed Found	— —	14. 14.33	15. 15.71	— —
2158	Guaranteed Found	2.46 2.46	8. 8.47	9. 9.17	4. 4.02
2165	Guaranteed Found	1.64 1.51	8. 7.76	9. 8.88	3. 2.70
2365	Guaranteed Found	1.64 1.86	8. 8.54	9. 10.50	3. 2.94
2162	Guaranteed Found	.82 .95	7. 7.01	8. 7.91	1. 1.22
2159	Guaranteed Found	3.28 3.30	8. 8.06	9. 9.	7. 7.92
2878	Guaranteed Found	1.64 1.68	9. 9.32	10. 11.50	2. 2.28

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Lowell Fertilizer Co., Boston, Mass.	Lowell Empress Brand for Corn, Potatoes and Grain	Cortland	2164
Lowell Fertilizer Co., Boston, Mass.	Lowell Grain Phosphate	Stamford	2598
Lowell Fertilizer Co., Boston, Mass.	Lowell Grass Mixture for Top Dressing & Lawns	Salem	2879
Lowell Fertilizer Co., Boston, Mass.	Lowell Ground Bone	Windsor	2589
Lowell Fertilizer Co., Boston, Mass.	Lowell Ground Bone	Gloversville	2857
Lowell Fertilizer Co., Boston, Mass.	Lowell Market Garden Manure	Slingerland	2270
Lowell Fertilizer Co., Boston, Mass.	Lowell Potato Grower with 10 per ct. Potash	Cobleskill	2740
Lowell Fertilizer Co., Boston, Mass.	Lowell Potato Manure	Chenango Forks	2441
Lowell Fertilizer Co., Boston, Mass.	Lowell Potato Phosphate	Cortland	2163
Lowell Fertilizer Co., Boston, Mass.	Lowell Soluble Phosphate	Urlton	2257
Lowell Fertilizer Co., Boston, Mass.	Lowell Special Potato Fertilizer with 10 per ct. Potash	Slingerland	2269
Lowell Fertilizer Co., Boston, Mass.	Lowell Sterling Phosphate	Cortland	2161
Lowell Fertilizer Co., Boston, Mass.	Lowell Vegetable and Grain Fertilizer	Cortland	2160
Lowell Fertilizer Co., Boston, Mass.	Muriate of Potash	Stamford	2802
Lowell Fertilizer Co., Boston, Mass.	Muriate of Potash	Middle Granville	2886
Lowell Fertilizer Co., Boston, Mass.	Nitrate of Soda	Middle Granville	2887

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2164	Guaranteed Found	1.24 1.28	7. 6.72	8. 7.19	2. 2.42
2598	Guaranteed Found	— —	10. 9.30	11. 10.	8. 6.99
2879	Guaranteed Found	4.10 4.08	7. 7.18	8. 8.42	6. 6.76
2589	Guaranteed Found	2.46 2.50	— —	23. 27.67	— —
2857	Guaranteed Found	2.46 2.56	— —	23. 27.24	— —
2270	Guaranteed Found	4.10 3.86	7. 7.80	8. 8.85	6. 6.78
2740	Guaranteed Found	3.28 3.23	6. 6.01	7. 7.08	10. 10.02
2441	Guaranteed Found	1.64 2.03	7. 6.96	8. 7.93	4. 4.42
2163	Guaranteed Found	2.46 2.44	8. 8.36	9. 8.82	6. 5.82
2257	Guaranteed Found	— —	12. 12.53	13. 13.43	— —
2269	Guaranteed Found	2.40 2.45	6. 6.32	7. 6.92	10. 9.92
2161	Guaranteed Found	.82 .94	8. 8.70	9. 10.03	4. 3.98
2160	Guaranteed Found	1.64 1.61	8. 7.66	9. 9.39	10. 10.48
2802	Guaranteed Found	— —	— —	— —	50. 53.18
2886	Guaranteed Found	— —	— —	— —	50. 50.44
2887	Guaranteed Found	15. 15.26	— —	— —	— —

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Ludlam Co., Frederick, New York, N. Y.	Ludlam's A. B. F. Fertilizer	Orient	2651
Ludlam Co., Frederick, New York, N. Y.	Ludlam's Antler Fertilizer	Calverton	2345
Ludlam Co., Frederick, New York, N. Y.	Ludlam's Cecrop's Fertilizer	Riverhead	2327
Ludlam Co., Frederick, New York, N. Y.	Ludlam's Palmetto Fertilizer	Greenwich	2874
Ludlam Co., Frederick, New York, N. Y.	Ludlam's P. G. Phosphate	Greenwich	2876
Ludlam Co., Frederick, New York, N. Y.	Ludlam's Pure Ground Bone	Babylon	2243
Ludlam Co., Frederick, New York, N. Y.	Ludlam's Special Potato Fertilizer	Little Neck	2241
Ludlam Co., Frederick, New York, N. Y.	Nitrate of Soda	Middle Falls	2877
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	Mapes General Crop Brand	Binghamton	2041
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	Mapes Grass and Grain Spring Top-Dressing	Orient	2659
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	Mapes Grain Brand	Honeoye Falls	3168
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	Pure Ground Bone	Bedford Hills	3104
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Average Soil Complete Manure	Jamesport	2306
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Cauliflower and Cabbage Manure	Riverhead	2380
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Cereal Brand	Utica	2696

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2651	Guaranteed Found	1.65 1.66	8. 8.85	9. 9.77	2. 2.16
2345	Guaranteed Found	3.29 3.77	6. 6.01	7. 7.98	10. 9.88
2327	Guaranteed Found	3.29 3.29	7. 7.34	8. 8.22	7. 7.10
2874	Guaranteed Found	.82 1.08	8. 8.17	9. 9.52	4. 4.52
2876	Guaranteed Found	— —	10. 9.41	11. 11.36	6. 6.68
2243	Guaranteed Found	2.47 2.52	— —	22.88 23.43	— —
2241	Guaranteed Found	2.47 2.41	8. 8.18	9. 9.73	6. 6.68
2877	Guaranteed Found	15. 15.42	— —	— —	— —
2041	Guaranteed Found	1.65 1.60	8. 7.72	10. 9.45	2. 3.02
2659	Guaranteed Found	4.94 4.90	5. 6.36	6. 7.89	7. 7.80
3168	Guaranteed Found	.82 .78	8. 8.19	— 9.19	4. 4.68
3104	Guaranteed Found	2.47 2.50	— —	20. 26.45	— —
2306	Guaranteed Found	4.12 4.27	7. 7.47	8. 8.25	5. 5.66
2380	Guaranteed Found	4.12 4.28	6. 6.04	6. 7.17	6. 6.48
2696	Guaranteed Found	1.65 1.90	6. 6.11	8. 8.	3. 3.62

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Complete Manure "A" Brand	Jamesport	2307
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Complete Manure for General Use	Southold	2666
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Complete Manure 10 Per Cent Potash	Binghamton	2040
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Corn Manure	Orient	2658
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Dissolved Bone	New York	2316
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Economical Potato Manure	Baldwinsville	2554
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Lawn-Top Dressing	Utica	2697
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Potato Manure	Mt. Kisco	2896
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Potato Manure (L. I. Special)	New York	2315
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Tobacco Manure (Wrapper Brand)	Elmira	3013
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Tobacco Starter Improved	Baldwinsville	2553
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Top Dresser Improved Full Strength	Jamesport	2305
The Mapes Formula & Peruvian Guano Co., New York, N. Y.	The Mapes Vegetable Manure or Complete Manure for Light Soils	Orient	2657

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2307	Guaranteed Found	2.47	10.	12.	2.50
		2.71	8.68	11.93	2.80
2666	Guaranteed Found	3.29	8.	10.	4.
		3.73	8.56	10.02	5.06
2040	Guaranteed Found	2.06	3.	5.	10.
		2.15	4.06	5.81	9.90
2658	Guaranteed Found	2.47	8.	10.	6.
		2.56	8.90	10.29	5.86
2316	Guaranteed Found	2.06	12.	—	—
		2.37	15.49	17.15	—
2554	Guaranteed Found	3.29	4.	6.	8.
		3.30	5.07	6.48	8.86
2697	Guaranteed Found	2.47	2.	3.50	2.50
		2.64	3.58	4.47	3.20
2896	Guaranteed Found	3.71	8.	8.	6.
		3.37	8.40	9.40	6.42
2315	Guaranteed Found	3.29	4.	6.	7.
		3.56	5.30	6.92	7.90
3013	Guaranteed Found	6.18	—	4.50	10.50
		6.48	—	5.60	9.74
2553	Guaranteed Found	4.12	6.	8.	1.
		4.51	8.91	13.86	1.14
2305	Guaranteed Found	9.88	5.	8.	4.
		9.62	7.19	8.03	4.30
2657	Guaranteed Found	4.94	6.	8.	6.
		5.00	7.93	8.61	7.14

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Martin Co., D. B., Philadelphia, P.	Martin's Blood Tankage and Potash	Hempstead	1793
Martin Co., D. B., Philadelphia, Pa.	Martin's Dissolved Organic Compound	Syracuse	2818
Martin Co., D. B., Philadelphia, Pa.	Martin's Gilt Edge Potato Manure	Syracuse	2820
Martin Co., D. B., Philadelphia, Pa.	Martin's High Grade Potato	Syracuse	2823
Martin Co., D. B., Philadelphia, Pa.	Martin's One-Eight-Four	Syracuse	2817
Martin Co., D. B., Philadelphia, Pa.	Martin's Potash and Soluble Phosphate	Homer	2193
Martin Co., D. B., Philadelphia, Pa.	Martin's Potash and Soluble Phosphate	Syracuse	2819
Martin Co., D. B., Philadelphia, Pa.	Martin's Potash and Soluble Phosphate No. 2	Stanley	3172
Martin Co., D. B., Philadelphia, Pa.	Martin's Prize Potato	Homer	2192
Martin Co., D. B., Philadelphia, Pa.	Martin's Prize Potato	Syracuse	2821
Martin Co., D. B., Philadelphia, Pa.	Martin's Pure Ground Bone	Hempstead	1796
Martin Co., D. B., Philadelphia, Pa.	Martin's Pure Raw Bone	Hempstead	1795
Martin Co., D. B., Philadelphia, Pa.	Martin's Special Compound	Homer	2194
Martin Co., D. B., Philadelphia, Pa.	Martin's Special Compound	Syracuse	2822
Martin Co., D. B., Philadelphia, Pa.	Martin's Special Potato Manure	Stanley	3173
Martin Co., D. B., Philadelphia, Pa.	Martin's Truckers Guano	Hempstead	1794
Mauthe, John, Dunkirk, N. Y.	Animal Tankage	Dunkirk	3177

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
1793	Guaranteed Found	4.11 3.95	8. 8.23	— 8.83	7. 7.58
2818	Guaranteed Found	1.03 1.02	9. 7.92	— 9.20	2. 2.48
2820	Guaranteed Found	2.47 2.42	7. 7.61	— 8.52	10. 11.32
2823	Guaranteed Found	3.30 3.17	8. 8.22	— 9.08	10. 11.28
2817	Guaranteed Found	.82 .86	8. 8.14	— 8.98	4. 4.24
2193	Guaranteed Found	— —	10. 9.89	— 10.25	8. 7.09
2819	Guaranteed Found	— —	12. 12.46	— 12.68	5. 4.78
3172	Guaranteed Found	— —	10. 9.71	— 10.07	8. 7.36
2192	Guaranteed Found	1.65 1.82	8. 7.49	— 9.18	10. 11.56
2821	Guaranteed Found	1.65 1.63	8. 8.16	— 9.34	10 10.84
1796	Guaranteed Found	1.65 1.73	— —	22.90 23.25	— —
1795	Guaranteed Found	3.70 3.94	— —	21. 24.13	— —
2194	Guaranteed Found	1.65 1.72	8. 8.49	— 9.07	5. 5.16
2822	Guaranteed Found	1.65 1.60	8. 8.27	— 9.45	5. 5.18
3173	Guaranteed Found	.82 .83	8. 8.22	— 8.75	5. 5.50
1794	Guaranteed Found	3.29 3.40	8. 8.56	— 9.27	7. 8.06
3177	Guaranteed Found	2. 3.03	2. 12.78	— 21.01	— —

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
McCoy, Geo. E., Peekskill, N. Y.	An Honest Fertilizer	Peekskill	3114
The Mitchell Fertilizer Co., Bremley, N. J.	Mitchell's Alkaline Bone	Kinderhook	2267
The Mitchell Fertilizer Co., Bremley, N. J.	Mitchell's Vegetable Fertilizer	Kinderhook	2268
Mittenmaier Fertilizer Co., Rome, N. Y.	Super Phosphate	Sherburne	2536
Moller & Co., Maspeth, L. I.	Champion No. 1 Pure Bone Fertilizer	Maspeth	3063
Moller & Co., Maspeth, L. I.	Champion No. 2 Pure Bone Fertilizer	Maspeth	3064
Munroe & Sons, Geo. L., Oswego, N. Y.	Pure Unleached Wood Ashes	Centervillage	2587
Nassau Fertilizer Co., New York, N. Y.	Common Sense Potato Manure	Kingston	2291
Nassau Fertilizer Co., New York, N. Y.	Corn Fertilizer	Kingston	2289
Nassau Fertilizer Co., New York, N. Y.	General Favorite	Kingston	2288
Nassau Fertilizer Co., New York, N. Y.	Grass and Grain Fertilizer	Kingston	2287
Nassau Fertilizer Co., New York, N. Y.	Potash and Phosphate	Boonville	2693
Nassau Fertilizer Co., New York, N. Y.	Special Potato Fertilizer	Kingston	2286
Nassau Fertilizer Co., New York, N. Y.	Ten & Eight Special	Copenhagen	2681
Nassau Fertilizer Co., New York, N. Y.	Wheat and Grass Grower	Kingston	2290
The National Fertilizer Co., New York, N. Y.	National Complete Root and Grain Fertilizer	Calverton	2362
The National Fertilizer Co., New York, N. Y.	National Complete Root Fertilizer "Special"	Calverton	2346

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
3114	Guaranteed Found	4.25 6.	— —	12.25 17.54	— —
2267	Guaranteed Found	1.65 1.79	8. 8.39	9. 10.45	2. 2.44
2268	Guaranteed Found	3. 3.	8. 8.52	9. 10.13	4. 4.28
2536	Guaranteed Found	2. 2.42	8. 7.93	— 9.12	3. 3.48
3063	Guaranteed Found	2.88 3.62	7. 8.99	— 10.83	6. 7.62
3064	Guaranteed Found	3.30 3.65	7. 9.30	— 11.52	5. 5.60
2587	Guaranteed Found	— —	.25 .53	.50 1.08	1. 1.72
2291	Guaranteed Found	1.65 1.67	8. 8.08	9. 9.45	4. 4.40
2289	Guaranteed Found	1.65 2.66	8. 8.38	9. 10.15	2. 4.28
2288	Guaranteed Found	.82 .90	8. 8.40	9. 10.20	4. 4.04
2287	Guaranteed Found	— —	10. 10.48	11. 11.48	2. 2.24
2693	Guaranteed Found	— —	10. 10.26	11. 10.75	5. 4.96
2286	Guaranteed Found	1.65 1.76	8. 8.18	9. 9.42	10. 10.60
2681	Guaranteed Found	— —	10. 10.15	11. 10.58	8. 8.
2290	Guaranteed Found	.82 .95	8. 8.28	9. 10.08	2. 2.34
2362	Guaranteed Found	3.29 3.47	8. 8.24	9. 8.78	6. 6.08
2346	Guaranteed Found	3.29 3.35	8. 8.23	9. 9.03	7. 7.38

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The National Fertilizer Co., New York, N. Y.	National XXX Fish and Potash	East Marion	2398
Natural Guano Co., Aurora, Ill.	Sheeps Head Brand Pulverized Sheep Manure	Skaneateles	2414
Natural Guano Co., Aurora, Ill.	Pulverized Sheep Manure	Silver Creek	2755
Newburgh Rendering Co., Newburgh, N. Y.	Pure Meat and Bone Fertilizer	Newburgh	2715
New England Fertilizer Co., Boston, Mass.	New England Grain and Vegetable Fertilizer	Moravia	2513
New England Fertilizer Co., Boston, Mass.	New England Potato Grower	Moravia	2514
New England Fertilizer Co., Boston, Mass.	New England Standard Phosphate	Moravia	2515
Newhof & Son, L., Albany, N. Y.	Pure Fertilizer	Albany	2720
The Niantic Menhaden Oil & Guano Co., South Lyme, Conn.	Acidulated Fish Guano	Peconic	2665
The Niantic Menhaden Oil & Guano Co., South Lyme, Conn.	Bone, Fish and Potash	Laurel	2374
The Niantic Menhaden Oil & Guano Co., South Lyme, Conn.	Dry Ground Fish Guano	Orient	2652
The Niantic Menhaden Oil & Guano Co., South Lyme, Conn.	Potato and Vegetable Manure	Jamesport .	2308
Nitrate Agencies Co., New York, N. Y.	Basic Slag (Thomas Phosphate Powder)	Albion	2985
Nitrate Agencies Co., New York, N. Y.	Genuine German Kainit	Delhi	2830
Nitrate Agencies Co., New York, N. Y.	Genuine German Kainit	Albion	2984

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2398	Guaranteed Found	2.47	5.	6.	3.
		2.71	5.09	5.85	2.86
2414	Guaranteed Found	2.25	1.50	1.75	1.50
		2.39	.99	1.18	2.08
2755	Guaranteed Found	2.25	1.50	1.75	1.50
		3.37	1.24	1.32	2.
2715	Guaranteed Found	4.	—	16.	—
		5.65	—	16.91	—
2513	Guaranteed Found	1.64	8.	9.	10.
		1.65	8.02	9.72	10.06
2514	Guaranteed Found	2.46	6.	7.	10.
		2.74	6.09	6.54	10.06
2515	Guaranteed Found	.82	8.	9.	4.
		.94	8.30	9.53	4.04
2720	Guaranteed Found	7.	—	9.	—
		6.43	—	13.25	—
2665	Guaranteed Found	3.30	2.50	3.50	—
		4.32	6.03	6.91	—
2374	Guaranteed Found	2.46	5.	6.	3.
		3.17	5.66	7.18	6.52
2652	Guaranteed Found	6.59	2.50	6.	—
		7.43	4.93	5.49	—
2308	Guaranteed Found	2.50	7.	8.	4.
		2.94	9.18	9.42	4.80
2985	Guaranteed Found	—	—	17.	—
		—	—	16.69	—
2830	Guaranteed Found	—	—	—	12.
		—	—	—	13.54
2984	Guaranteed Found	—	—	—	12.
		—	—	—	13.18

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Nitrate Agencies Co., New York, N. Y.	Ground Bone	New Paltz	3122
Nitrate Agencies Co., New York, N. Y.	Ground Tankage	Cutchogue	2321
Nitrate Agencies Co., New York, N. Y.	High Grade Acid Phosphate	Baldwinsville	2558
Nitrate Agencies Co., New York, N. Y.	Muriate of Potash	Cutchogue	2323
Nitrate Agencies Co., New York, N. Y.	Nitrate of Soda	Cutchogue	2322
Nitrate Agencies Co., New York, N. Y.	Sulphate of Potash	Delhi	2828
The Patapsco Guano Co., Baltimore, Md.	Nitrate of Soda	Hamden	2595
The Patapsco Guano Co., Baltimore, Md.	Patapsco Alkaline Plant Food	Oxford	2189
The Patapsco Guano Co., Baltimore, Md.	Patapsco Coon Brand Guano	Oxford	2187
The Patapsco Guano Co., Baltimore, Md.	Patapsco Empire Alkaline Bone	Oxford	2186
The Patapsco Guano Co., Baltimore, Md.	Patapsco Fish and Potash Guano	Sharon Center	2862
The Patapsco Guano Co., Baltimore, Md.	Patapsco Grain and Grass Producer	Hamden	2594
The Patapsco Guano Co., Baltimore, Md.	Patapsco O. K. Phosphate	Oxford	2190
The Patapsco Guano Co., Baltimore, Md.	Patapsco Peerless Potato Guano	Stamford	2599
The Patapsco Guano Co., Baltimore, Md.	Patapsco Prolific Potato Phosphate	Hobart	2838
The Patapsco Guano Co., Baltimore, Md.	Patapsco Pure Dissolved Phosphate	Stamford	2801
The Patapsco Guano Co., Baltimore, Md.	Patapsco Soluble Phosphate and Potash	Stamford	2600

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
3122	Guaranteed Found	2.46	—	22.88	—
		2.43	—	22.31	—
2321	Guaranteed Found	5.75	—	13.	—
		5.73	—	13.65	—
2558	Guaranteed Found	—	16.	—	—
		—	15.67	17.38	—
2323	Guaranteed Found	—	—	—	50.
		—	—	—	51.80
2322	Guaranteed Found	15.	—	—	—
		15.58	—	—	—
2828	Guaranteed Found	—	—	—	48.
		—	—	—	50.80
2595	Guaranteed Found	15.	—	—	—
		15.16	—	—	—
2189	Guaranteed Found	—	8.	9.	5.
		—	8.21	8.67	5.10
2187	Guaranteed Found	.82	9.	10.	3.
		.83	9.62	10.88	3.28
2186	Guaranteed Found	—	12.	13.	5.
		—	12.54	13.13	5.08
2862	Guaranteed Found	2.06	6.	7.	2.
		2.90	6.82	8.61	1.65
2594	Guaranteed Found	.82	8.	9.	4.
		.93	8.16	9.49	4.02
2190	Guaranteed Found	.82	8.	9.	2.
		.98	8.32	9.58	2.20
2599	Guaranteed Found	3.29	6.	7.	10.
		3.20	6.39	8.36	10.12
2838	Guaranteed Found	3.29	8.	9.	7.
		3.24	8.41	11.11	8.
2801	Guaranteed Found	—	14.	15.	—
		—	14.75	16.13	—
2600	Guaranteed Found	—	10.	11.	2.
		—	10.07	10.87	2.62

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The Patapsco Guano Co., Baltimore, Md.	Patapsco Special Potato Guano	Oxford	2188
The Patapsco Guano Co., Baltimore, Md.	Patapsco Superior Alka- line Manure	Oxford	2191
The Patapsco Guano Co., Baltimore, Md.	Patapsco Vegetable and Corn Fertilizer	Sherburne	2535
The Pennsylvania Fertilizer Co., Buffalo, N. Y.	Acid Phosphate	Buffalo	3181
The Pennsylvania Fertilizer Co., Buffalo, N. Y.	Big Bonanza	Fancher	2143
The Pennsylvania Fertilizer Co., Buffalo, N. Y.	Economy	Colton	2674
The Pennsylvania Fertilizer Co., Buffalo, N. Y.	Empire 10%	Penn Yan	3044
The Pennsylvania Fertilizer Co., Buffalo, N. Y.	Four Fold	Penn Yan	3045
The Pennsylvania Fertilizer Co., Buffalo, N. Y.	Grain and Grass	Orchard Park	2613
The Pennsylvania Fertilizer Co., Buffalo, N. Y.	Potato and Truck Ma- nure	Orchard Park	2612
The Pennsylvania Fertilizer Co., Buffalo, N. Y.	Standard Phosphate	Clarence	2778
The Pennsylvania Fertilizer Co., Buffalo, N. Y.	Vegetable and Vine	Orchard Park	2611
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Insula Guano for All Crops	Cherry Valley	2743
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Levering's Harvest Queen	Chenango Bridge	2444
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Levering's Standard	Syracuse	2731
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	New York Vegetable Ma- nure	Cherry Valley	2745
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Nitrate of Soda	Syracuse	2734

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2188	Guaranteed Found	1.65 1.72	8. 8.33	9. 9.60	10. 10.68
2191	Guaranteed Found	— —	10. 10.31	11. 10.80	8. 8.18
2535	Guaranteed Found	1.65 1.76	8. 8.58	9. 10.15	4. 3.94
3181	Guaranteed Found	— —	12. 15.30	13. 15.92	— —
2143	Guaranteed Found	.8 1.25	8. 8.37	9. 10.55	4. 4.74
2674	Guaranteed Found	1.6 1.64	8. 9.	9. 9.86	4. 4.46
3044	Guaranteed Found	1.6 1.79	8. 8.61	9. 9.33	10. 8.25
3045	Guaranteed Found	.8 .87	8. 10.51	9. 11.47	2. 2.18
2613	Guaranteed Found	— —	10. 10.36	11. 11.66	2. 2.12
2612	Guaranteed Found	1.6 1.85	8. 8.18	9. 10.08	6. 6.62
2778	Guaranteed Found	— —	10. 10.22	11. 11.59	6. 6.10
2611	Guaranteed Found	.8 .94	10. 9.57	11. 11.51	8. 8.90
2743	Guaranteed Found	.42 .80	7. 7.66	— 8.33	2. 1.89
2444	Guaranteed Found	.82 .85	8. 8.28	— 9.03	2. 2.12
2731	Guaranteed Found	1.65 1.62	8. 8.20	— 8.70	3. 5.82
2745	Guaranteed Found	3.29 3.21	8. 8.13	— 8.48	6. 5.74
2734	Guaranteed Found	15.23 15.22	— —	— —	— —

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Nitrate of Soda	Clyde	2972
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Piedmont Banner Brand	Syracuse	2730
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Piedmont Bone Meal	Holland	3154
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Piedmont Farmers' Favorite	Altamont	2275
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Piedmont 14% Acid Phosphate	Schoharie	2737
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Piedmont Market Garden	Canandaigua	2791
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Piedmont New York Cabbage & Potato Guano	Chenango Bridge	2443
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Piedmont Oats and Grass Guano	Altamont	2276
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Piedmont Pea and Bean Guano	Schoharie	2728
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Piedmont Perfection Guano	Ithaca	2569
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Piedmont Special Mixture	Chenango Bridge	2442
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Piedmont Wheat and Corn Guano	Canandaigua	2790
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Piedmont Wheat Compound	Syracuse	2733
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Raw and Dissolved Bone	Holland	3155
Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Thomas Phosphate Powder	Albion	2139
Pine, B. J., East Williston, L. I.	Pine's No. 1 Star Raw Bone Super-Phosphate	East Williston	2228
Pine, B. J., East Williston, L. I.	Pine's No. 2 Star Raw Bone Super-Phosphate Complete Manure	East Williston	2229

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2972	Guaranteed Found	15.23 15.13	— —	— —	— —
2730	Guaranteed Found	3.29 3.25	6. 7.30	— 8.04	10. 10.42
3154	Guaranteed Found	3.29 5.14	— —	21. 21.28	— —
2275	Guaranteed Found	.82 1.	8. 9.35	— 10.08	4. 4.16
2737	Guaranteed Found	— —	14. 15.18	— 15.44	— —
2791	Guaranteed Found	2.47 2.37	8. 8.31	— 9.08	6. 4.84
2443	Guaranteed Found	1.65 1.85	8. 8.50	— 8.74	10. 10.64
2276	Guaranteed Found	— —	10. 10.78	— 10.93	2. 2.64
2728	Guaranteed Found	.82 .94	7. 8.77	— 9.67	9. 9.68
2569	Guaranteed Found	1.65 1.48	8. 8.44	— 8.91	5. 5.68
2442	Guaranteed Found	— —	10. 10.17	— 10.28	8. 8.40
2790	Guaranteed Found	1.65 1.88	8. 7.89	— 8.31	2. 2.68
2733	Guaranteed Found	— —	12. 12.10	— 12.53	5. 5.92
3155	Guaranteed Found	2.49 2.50	— —	— 17.97	— —
2139	Guaranteed Found	— —	15. *	17. 17.26	— —
2228	Guaranteed Found	2.47 2.42	6. 6.55	7. 7.50	7. 7.
2229	Guaranteed Found	2.25 2.38	6. 6.44	7. 7.	3. 3.16

*No official method for determining available P_2O_5 in this sample.

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Pioneer Fertilizer Co., Cleveland, O.	Pioneer 1-5-10 Fertilizer	West Henrietta	2978
Pioneer Fertilizer Co., Cleveland, O.	Pioneer 2-8-10 Fertilizer	West Henrietta	2977
The Pulverized Manure Co., Chicago, Ill.	Wizard Brand Concentrated Plant Food	Batavia	2481
The Pulverized Manure Co., Chicago, Ill.	Wizard Brand Pulverized Cattle Manure	Utica	2695
The Pulverized Manure Co., Chicago, Ill.	Wizard Brand Pulverized Sheep Manure	Auburn	2551
Quaker City Poudrette Co., Philadelphia, Pa.	Strictly Pure Quaker City Poudrette	Elmira	3021
Ramer, Catherine T., Delhi, N. Y.	Accommodation Mixture Oats	Delhi	2831
Ramer, Catherine T., Delhi, N. Y.	Accommodation Mixture Potato	Delhi	2829
Ramer, Catherine T., Delhi, N. Y.	Accommodation Mixture Silo Corn	Delhi	2832
Rasin-Monumental Co., Baltimore, Md.	High Grade Ground Fish	Albion	2123
Rasin-Monumental Co., Baltimore, Md.	Muriate of Potash	Albion	2120
Rasin-Monumental Co., Baltimore, Md.	Rasin's Acid Phosphate	Albion	2114
Rasin-Monumental Co., Baltimore, Md.	Rasin's All Crop Guano	Homer	2199
Rasin-Monumental Co., Baltimore, Md.	Rasin's Bone and Potash Fertilizer	Delanson	2724
Rasin-Monumental Co., Baltimore, Md.	Rasin's Empire Guano	Ames	2861
Rasin-Monumental Co., Baltimore, Md.	Rasin's Genesee Valley Root Manure	Skaneateles	2420
Rasin-Monumental Co., Baltimore, Md.	Rasin's Genuine German Kainit	Skaneateles	2422

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2978	Guaranteed Found	.82 .85	5. 5.67	6. 5.99	10. 10.26
2977	Guaranteed Found	1.65 1.63	8. 8.86	9. 9.69	10. 10.66
2481	Guaranteed Found	3. 3.70	6. 6.75	— 7.01	2. 3.76
2695	Guaranteed Found	1.8 1.75	1. .79	— .93	1. .92
2551	Guaranteed Found	1.8 2.28	1. 1.10	— 1.23	1. 2.22
3021	Guaranteed Found	1.64 1.	— —	4. 2.35	1. .11
2831	Guaranteed Found	— 1.68	— 7.74	— 8.63	— 16.20
2829	Guaranteed Found	— 2.88	— 8.48	— 9.10	— 9.56
2832	Guaranteed Found	— 1.72	— 7.14	— 8.02	— 14.32
2123	Guaranteed Found	8.23 8.92	— —	— —	— —
2120	Guaranteed Found	— —	— —	— —	48. 47.72
2114	Guaranteed Found	— —	14. 14.29	15. 16.10	— —
2199	Guaranteed Found	.82 .85	8. 8.13	9. 10.38	5. 5.16
2724	Guaranteed Found	— —	10. 10.10	11. 11.20	2. 2.24
2861	Guaranteed Found	1.65 1.72	8. 8.09	9. 10.16	2. 2.60
2420	Guaranteed Found	.82 1.14	8. 8.14	9. 9.43	10. 9.96
2422	Guaranteed Found	— —	— —	— —	12. 13.

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Rasin-Monumental Co., Baltimore, Md.	Rasin's Gold Standard	Cobleskill	2738
Rasin-Monumental Co., Baltimore, Md.	Rasin's High Grade Bone and Potash	Albion	2121
Rasin-Monumental Co., Baltimore, Md.	Rasin's Irish Potato Special	Groton	2507
Rasin-Monumental Co., Baltimore, Md.	Rasin's IXL Fertilizer	Homer	2200
Rasin-Monumental Co., Baltimore, Md.	Rasin's National Crop Compound	Albion	2118
Rasin-Monumental Co., Baltimore, Md.	Rasin's Special Fish and Potash Mixture	Albion	2122
Rasin-Monumental Co., Baltimore, Md.	Rasin's Special Fish and Potash Mixture	Linwood	3000
Rasin-Monumental Co., Baltimore, Md.	Rasin's United Grain Grower	Ames	2860
Rasin-Monumental Co., Baltimore, Md.	Rasin's Vegetable Special	Homer	2198
Rasin-Monumental Co., Baltimore, Md.	Rasin's Wheat and Truck Mixture	Albion	2115
Rasin-Monumental Co., Baltimore, Md.	Rasin's XXX Fertilizer	Albion	2117
Reading Bone Fertilizer Co., Reading, Pa.	Alkaline Phosphate and Potash	Carthage	2683
Reading Bone Fertilizer Co., Reading, Pa.	Alkaline Phosphate and Potash	Warsaw	2994
Reading Bone Fertilizer Co., Reading, Pa.	Farmer's Tankage and Potash for Corn, Grain and Grass	Churchville	2483
Reading Bone Fertilizer Co., Reading, Pa.	Gilt Edge Potato and Tobacco Grower	Bergen	2485
Reading Bone Fertilizer Co., Reading, Pa.	High Grade Potash Mixture	Bergen	2486

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2738	Guaranteed Found	2.47 2.50	6. 6.51	7. 8.67	6. 6.20
2121	Guaranteed Found	— —	12. 12.	13. 13.13	5. 5.80
2507	Guaranteed Found	3.29 3.38	7. 7.44	8. 8.73	8. 8.98
2200	Guaranteed Found	.82 .97	9. 11.59	10. 11.97	3. 3.34
2118	Guaranteed Found	.82 .94	8. 7.47	9. 9.98	4. 5.16
2122	Guaranteed Found	3.29 3.31	6. 5.89	7. 8.64	10. 9.64
3000	Guaranteed Found	3.29 3.30	6. 7.07	7. 8.98	10. 10.02
2860	Guaranteed Found	.82 1.06	8. 8.54	9. 10.41	2. 2.88
2198	Guaranteed Found	1.65 1.87	8. 7.80	9. 9.50	10. 10.28
2115	Guaranteed Found	— —	10. 9.95	11. 10.91	8. 9.38
2117	Guaranteed Found	1.65 1.70	8. 8.05	9. 10.24	5. 4.86
2683	Guaranteed Found	— —	8. 8.04	9. 8.71	5. 5.46
2994	Guaranteed Found	— —	8. 8.65	9. 8.93	5. 5.58
2483	Guaranteed Found	.82 1.36	8. 7.56	9. 9.19	4. 4.94
2485	Guaranteed Found	1.64 1.52	7. 7.63	8. 8.79	10. 9.88
2486	Guaranteed Found	— —	10. 9.91	11. 10.73	10. 11.52

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Reading Bone Fertilizer Co., Reading, Pa.	Neverfail Crop Grower	Warsaw	2992
Reading Bone Fertilizer Co., Reading, Pa.	Reading All Crop Special	Honeoye Falls	3167
Reading Bone Fertilizer Co., Reading, Pa.	Reading Prize Winner	Churchville	2482
Reading Bone Fertilizer Co., Reading, Pa.	Reading Special Potato and Tobacco Grower	Warsaw	2995
Reading Bone Fertilizer Co., Reading, Pa.	Reading Ten and Eight	Hamlin	2979
Rochester Tallow Co., Inc., Rochester, N. Y.	Dry Blood	Rochester	2645
Rochester Tallow Co., Inc., Rochester, N. Y.	Dry Tankage	Rochester	2644
Roehr, G., McKownsville, N. Y.	Co-wa-ba	Albany	3125
The Rogers & Hubbard Co., Middletown, Conn.	Hubbard's Bone Base Complete Phosphate	Sharon Springs	2863
The Rogers & Hubbard Co., Middletown, Conn.	Hubbard's Bone Base Fruit or Grass and Grain Fertilizer	Sharon Springs	2866
The Rogers & Hubbard Co., Middletown, Conn.	Hubbard's Bone Base Oats and Top Dressing	Goshen	2294
The Rogers & Hubbard Co., Middletown, Conn.	Hubbard's Bone Base Oats and Top Dressing	Hillsdale	3132
The Rogers & Hubbard Co., Middletown, Conn.	Hubbard's Bone Base Potato Phosphate	Greenwich	2873
The Rogers & Hubbard Co., Middletown, Conn.	Hubbard's Bone Base Soluble Corn and General Crops Manure	Sharon Springs	2865
The Rogers & Hubbard Co., Middletown, Conn.	Hubbard's Bone Base Soluble Potato Manure	Greenwich	2872
The Rogers & Hubbard Co., Middletown, Conn.	Hubbard's Bone Base Strictly Pure Fine Bone	Sharon Springs	2864

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2992	Guaranteed Found	.82 1.60	8. 8.09	9. 9.14	1. 1.96
3167	Guaranteed Found	1.64 1.92	7. 7.35	— 8.17	5. 5.06
2482	Guaranteed Found	2.47 2.74	9. 9.07	10. 10.10	12. 11.96
2995	Guaranteed Found	.82 .94	6. 6.69	7. 7.10	7. 8.24
2979	Guaranteed Found	— —	10. 10.08	11. 10.84	8. 7.90
2645	Guaranteed Found	— 12.33	— —	— —	— —
2644	Guaranteed Found	— 5.19	— —	— 16.43	— —
3125	Guaranteed Found	.02 .16	— —	.01 .11	— —
2863	Guaranteed Found	1.50 1.70	7. 7.30	8. 8.82	5. 5.98
2866	Guaranteed Found	2.20 2.54	6.50 9.62	16. 16.10	12. 13.24
2294	Guaranteed Found	8.50 7.56	4.50 7.45	8. 9.67	8. 7.66
3132	Guaranteed Found	8.50 7.85	4.50 6.34	8. 7.87	8. 8.08
2873	Guaranteed Found	2. 2.11	9. 9.99	10. 11.31	5. 6.02
2865	Guaranteed Found	2.50 2.85	6. 7.89	8. 9.70	8. 8.56
2872	Guaranteed Found	5. 4.98	7. 8.64	10. 11.14	5. 6.16
2864	Guaranteed Found	2.85 4.18	— —	22. 20.40	— —

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Royster Guano Co., F. S., Baltimore, Md.	Muriate of Potash	Wisner	2299
Royster Guano Co., F. S., Baltimore, Md.	Nitrate of Soda	Wisner	2300
Royster Guano Co., F. S., Baltimore, Md.	Royster's Ammoniated Potash Compound	Elba	2773
Royster Guano Co., F. S., Baltimore, Md.	Royster's Ammoniated Superphosphate for Corn	Batavia	2476
Royster Guano Co., F. S., Baltimore, Md.	Royster's Big Yield Potato Producer	Cortland	2171
Royster Guano Co., F. S., Baltimore, Md.	Royster's Big Yield Potato Producer	Attica	2468
Royster Guano Co., F. S., Baltimore, Md.	Royster's Bumper Crop Phosphate	Batavia	2474
Royster Guano Co., F. S., Baltimore, Md.	Royster's Challenge Com- plete Compound	Batavia	2477
Royster Guano Co., F. S., Baltimore, Md.	Royster's Challenge Com- plete Compound	Caywood	3185
Royster Guano Co., F. S., Baltimore, Md.	Royster's Champion Crop Compound	Tully	2405
Royster Guano Co., F. S., Baltimore, Md.	Royster's Champion Crop Compound	Caywood	3184
Royster Guano Co., F. S., Baltimore, Md.	Royster's Complete Po- tato Manure	Riverhead	2372
Royster Guano Co., F. S., Baltimore, Md.	Royster's Complete Po- tato Manure	Walden	2710
Royster Guano Co., F. S., Baltimore, Md.	Royster's Corn and Hop Special Fertilizer	Middleburg	2735
Royster Guano Co., F. S., Baltimore, Md.	Royster's Fine Ground Bone Meal	Walden	2707
Royster Guano Co., F. S., Baltimore, Md.	Royster's Fish, Flesh and Fowl	Cortland	2170
Royster Guano Co., F. S., Baltimore, Md.	Royster's 14% Acid Phos- phate	Owego	2046

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2299	Guaranteed Found	———— ————	———— ————	———— ————	50. 51.60
2300	Guaranteed Found	15. 15.50	———— ————	———— ————	———— ————
2773	Guaranteed Found	.82 1.	9. 8.56	9.50 9.60	7. 7.34
2476	Guaranteed Found	2.47 2.41	9. 8.93	9.50 10.37	2. 2.90
2171	Guaranteed Found	1.65 1.70	5. 4.14	5.50 5.53	10. 11.02
2468	Guaranteed Found	1.65 1.63	5. 4.36	5.50 5.65	10. 11.32
2474	Guaranteed Found	———— ————	8. 8.10	8.50 9.05	5. 5.26
2477	Guaranteed Found	1.65 1.83	8. 7.97	8.50 9.16	6. 6.64
3185	Guaranteed Found	1.65 1.60	8. 8.05	8.50 9.79	6. 6.46
2405	Guaranteed Found	1.65 1.60	8. 7.67	8.50 8.76	4. 4.68
3184	Guaranteed Found	1.65 1.70	8. 7.65	8.50 9.40	4. 5.14
2372	Guaranteed Found	3.29 3.59	6. 6.34	6.50 7.83	10. 8.84
2710	Guaranteed Found	3.29 2.95	6. 6.46	6.50 7.84	10. 9.26
2735	Guaranteed Found	2.06 2.08	8. 7.99	8.50 8.94	3. 3.74
2707	Guaranteed Found	2.47 3.08	———— ————	22.90 23.52	———— ————
2170	Guaranteed Found	1.65 1.82	8. 7.32	8.50 9.38	3. 3.32
2046	Guaranteed Found	———— ————	14. 14.61	14.50 15.38	———— ————

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Royster Guano Co., F. S., Baltimore, Md.	Royster's Gold Seal Potato and Tobacco Special	Owego	2047
Royster Guano Co., F. S., Baltimore, Md.	Royster's Good Cheer Brand	Orchard Park	2614
Royster Guano Co., F. S., Baltimore, Md.	Royster's Great Grain Grower	Owego	2044
Royster Guano Co., F. S., Baltimore, Md.	Royster's Harvest King Fertilizer	Interlaken	2576
Royster Guano Co., F. S., Baltimore, Md.	Royster's High Grade Potash Mixture	Cortland	2169
Royster Guano Co., F. S., Baltimore, Md.	Royster's High Grade Potash Mixture	Saratoga Spa	3126
Royster Guano Co., F. S., Baltimore, Md.	Royster's High Grade Potato Grower	Gasport	2494
Royster Guano Co., F. S., Baltimore, Md.	Royster's High Grade 16% Acid Phosphate	Florida	2295
Royster Guano Co., F. S., Baltimore, Md.	Royster's Imperial Formula	Tully	2404
Royster Guano Co., F. S., Baltimore, Md.	Royster's Imperial Formula	Caywood	3186
Royster Guano Co., F. S., Baltimore, Md.	Royster's Lawn and Meadow Formula	Barker	2983
Royster Guano Co., F. S., Baltimore, Md.	Royster's Peerless Grain and Grass Grower	Hamburg	2623
Royster Guano Co., F. S., Baltimore, Md.	Royster's Pure Raw Bone Meal	North Collins	2631
Royster Guano Co., F. S., Baltimore, Md.	Royster's Seeding Down Special Fertilizer	Carthage	2679
Royster Guano Co., F. S., Baltimore, Md.	Royster's Special Celery Guano	Carthage	2680
Royster Guano Co., F. S., Baltimore, Md.	Royster's Special Fruit and Crop Grower	Owego	2045

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2047	Guaranteed Found	1.65	8.	8.50	10.
		1.81	7.29	9.08	10.52
2614	Guaranteed Found	1.03	8.	8.50	2.
		.98	7.84	8.46	3.48
2044	Guaranteed Found	.82	8.	8.50	5.
		1.04	7.20	8.98	6.36
2576	Guaranteed Found	1.65	8.	8.50	2.
		1.88	8.15	9.42	2.38
2169	Guaranteed Found	—	10.	10.50	10.
		—	10.57	11.06	10.18
3126	Guaranteed Found	—	10.	10.50	10.
		—	10.06	10.43	10.22
2494	Guaranteed Found	2.47	6.	6.50	10.
		2.41	6.	7.03	10.28
2295	Guaranteed Found	—	16.	16.50	—
		—	16.54	16.75	—
2404	Guaranteed Found	.82	8.	8.50	4.
		.88	7.65	8.83	4.30
3186	Guaranteed Found	.82	8.	8.50	4.
		.84	8.45	9.72	4.30
2983	Guaranteed Found	4.11	6.	6.50	2.
		3.38	6.99	8.50	3.88
2623	Guaranteed Found	—	10.	10.50	2.
		—	9.73	10.22	1.88
2631	Guaranteed Found	3.70	—	21.50	—
		3.82	—	21.65	—
2679	Guaranteed Found	.82	9.	9.50	3.
		1.07	9.14	10.14	3.10
2680	Guaranteed Found	3.29	8.	8.50	12.
		3.09	8.68	10.41	9.62
2045	Guaranteed Found	—	10.	10.50	8.
		—	10.01	11.13	8.06

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Royster Guano Co., F. S., Baltimore, Md.	Royster's Special Potato Guano	Riverhead	2358
Royster Guano Co., F. S., Baltimore, Md.	Royster's Superior Potash Mixture	Walden	2709
Royster Guano Co., F. S., Baltimore, Md.	Royster's Truckers Favorite	Riverhead	2373
Royster Guano Co., F. S., Baltimore, Md.	Royster's Truckers Favorite	Hempstead	3069
Royster Guano Co., F. S., Baltimore, Md.	Royster's Universal Crop Grower	Maine	2542
Royster Guano Co., F. S., Baltimore, Md.	Royster's Universal Truck Fertilizer	Laurel	2310
Royster Guano Co., F. S., Baltimore, Md.	Royster's Wheat, Oats and Barley Fertilizer	Tully	2406
Royster Guano Co., F. S., Baltimore, Md.	Royster's XX Acid Phosphate	Schoharie	2727
Sanderson Fertilizer & Chem. Co., New Haven, Conn.	Sanderson's Atlantic Coast Bone, Fish and Potash Fertilizer	Mattituck	2314
Sanderson Fertilizer & Chem. Co., New Haven, Conn.	Sanderson's Cabbage Fertilizer	Jamaica	2209
Sanderson Fertilizer & Chem. Co., New Haven, Conn.	Sanderson's Special Potato Manure	Mattituck	2313
Schaal-Sheldon Fertilizer Co., Buffalo, N. Y.	Complete Fertilizer with Extra Potash	Barker	2982
Schaal-Sheldon Fertilizer Co., Buffalo, N. Y.	Complete Fertilizer with Extra Potash	Eden Center	2986
Schaal-Sheldon Fertilizer Co., Buffalo, N. Y.	Dissolved Phosphate	Canaseraga	2998
Schaal-Sheldon Fertilizer Co., Buffalo, N. Y.	Dissolved Phosphate with Extra Potash	Collins	2640
Schaal-Sheldon Fertilizer Co., Buffalo, N. Y.	Dissolved Phosphate with Extra Potash	Eden Center	2988

*Manufacturers claim error occurred in printing nitrogen guarantee on bags. It should be 4.94 per ct.

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2358	Guaranteed Found	4.11 4.	7. 6.97	7.50 8.16	7. 6.90
2709	Guaranteed Found	— —	12. 12.69	12.50 13.48	5. 4.82
2373	Guaranteed Found	4.94 4.35	8. 8.31	8.50 9.35	5. 5.82
3069	Guaranteed Found	5.76* 4.95	8. 9.58	8.50 10.81	5. 5.02
2542	Guaranteed Found	.82 .88	7. 6.97	7.50 7.78	1. 1.10
2310	Guaranteed Found	3.29 3.32	8. 7.48	8.50 9.16	7. 6.72
2406	Guaranteed Found	.82 .98	8. 8.	8.50 9.13	2. 2.20
2727	Guaranteed Found	— —	12. 12.08	12.50 13.38	— —
2314	Guaranteed Found	1.67 1.94	4. 5.41	6. 7.38	4. 4.04
2209	Guaranteed Found	4. 4.05	5. 6.65	— 9.38	5. 4.98
2313	Guaranteed Found	3.30 3.28	7. 7.62	8. 10.27	7. 6.74
2982	Guaranteed Found	1.65 1.82	8. 8.39	9. 10.56	10. 9.60
2986	Guaranteed Found	1.65 1.70	8. 8.77	9. 11.11	10. 9.64
2998	Guaranteed Found	— —	14. 14.51	15. 15.92	— —
2640	Guaranteed Found	— —	10. 9.29	11. 10.79	4. 3.53
2988	Guaranteed Found	— —	10. 10.34	11. 11.71	4. 4.38

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Schaal-Sheldon Fertilizer Co., Buffalo, N. Y.	Farmers' Favorite	Collins	2641
Schaal-Sheldon Fertilizer Co., Buffalo, N. Y.	Fruit and Vine Fertilizer	Eden Center	2987
Schaal-Sheldon Fertilizer Co., Buffalo, N. Y.	Guano	Middleport	2491
Schaal-Sheldon Fertilizer Co., Buffalo, N. Y.	High Grade Ground Bone	South Dayton	2952
Schaal-Sheldon Fertilizer Co., Buffalo, N. Y.	Schaal's Corn and Potato	Collins	2639
Schaal-Sheldon Fertilizer Co., Buffalo, N. Y.	Schaal's Standard	Eden Center	2989
Schaal-Sheldon Fertilizer Co., Buffalo, N. Y.	Superior	South Dayton	2953
Schaal-Sheldon Fertilizer Co., Buffalo, N. Y.	Ten and Eight	Middleport	2492
Schaal-Sheldon Fertilizer Co., Buffalo, N. Y.	Ten and Eight	Eagle	3182
Schaal-Sheldon Fertilizer Co., Buffalo, N. Y.	Truckers Manure	South Dayton	2958
Shafer Company, Perry C., Brockport, N. Y.	Shafer's Special Fertilizer	Brockport	3187
Shay Fertilizer Co., C. M., Groton, Conn.	Shay's Potato Fertilizer	Orient	2653
Shay Fertilizer Co., C. M., Groton, Conn.	Shay's Potato with Potash	Orient	2654
Shay Fertilizer Co., C. M., Groton, Conn.	Tankage	Orient	2655
Shoemaker & Co., Ltd., M. L., Philadelphia, Pa.	Swift-Sure Bone Meal	Peconic	2389
Shoemaker & Co., Ltd., M. L., Philadelphia, Pa.	Swift-Sure Guano for Truck, Corn & Onions	Southampton	2669
Shoemaker & Co., Ltd., M. L., Philadelphia, Pa.	Swift-Sure Superphosphate for General Use	Cutchogue	2391

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2641	Guaranteed Found	.82 .91	8. 8.04	9. 10.06	2. 2.08
2987	Guaranteed Found	2.47 2.31	6. 6.83	7. 8.64	10. 9.66
2491	Guaranteed Found	.82 .91	8. 8.57	9. 10.64	4. 4.68
2952	Guaranteed Found	3.29 3.29	— —	20.59 20.37	— —
2639	Guaranteed Found	1.65 1.73	8. 9.28	9. 10.93	4. 4.08
2989	Guaranteed Found	1.65 1.67	8. 8.69	9. 10.47	2. 2.60
2953	Guaranteed Found	.82 1.05	7. 7.24	8. 8.77	9. 8.32
2492	Guaranteed Found	— —	10. 10.30	11. 12.12	8. 7.66
3182	Guaranteed Found	— —	10. 10.40	11. 11.91	8. 7.84
2958	Guaranteed Found	2.47 2.87	8. 8.15	9. 10.15	6. 6.42
3187	Guaranteed Found	2.06 2.01	8. 8.29	9. 9.82	5. 5.16
2653	Guaranteed Found	3.50 3.89	7.50 7.40	— 8.61	6. 6.30
2654	Guaranteed Found	— 4.01	— 7.41	— 8.	— 8.46
2655	Guaranteed Found	— 7.06	— 6.86	— 9.63	— .64
2389	Guaranteed Found	4.53 4.87	— —	20. 21.48	— —
2669	Guaranteed Found	1.65 1.95	8. 9.28	— 12.06	5. 5.42
2391	Guaranteed Found	2.88 2.98	9. 10.56	— 12.35	4.50 5.38

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Shoemaker & Co., Ltd., M. L., Philadelphia, Pa.	Swift-Sure Superphosphate for Potatoes	Southampton	2668
Stappenbeck Bros., Rochester, N. Y.	Concentrated Tankage	Rochester	2976
Stappenbeck, H., Utica, N. Y.	Animal Bone and Potash	Syracuse	2437
Sterling Chemical Co., Cambridge, Mass.	Sterlingworth Plant Tablets	Schenectady	2892
St. Lawrence State Hospital, Ogdensburg, N. Y.	Steamed Table Bone	Ogdensburg	2907
Stockwell Co., J. W., Fillmore, N. Y.	Stockwell Co's Home Mixed 11½-5	Fillmore	3160
Stockwell Co., J. W., Fillmore, N. Y.	Stockwell Co's Home Mixed 4-8-8 Fertilizer	Fillmore	3159
Stockwell Co., J. W., Fillmore, N. Y.	Stockwell Co's Home Mixed 1-10-10 Fertilizer	Fillmore	3162
Stockwell Co., J. W., Fillmore, N. Y.	Stockwell Co's Home Mixed 2-8-10 Fertilizer	Fillmore	3161
Stockwell Co., J. W., Fillmore, N. Y.	Stockwell Co's Home Mixed 2-10½-6 Fertilizer	Fillmore	3163
Stumpp & Walter Co., New York, N. Y.	Emerald Lawn Dressing	New York	2246
Stumpp & Walter Co., New York, N. Y.	S. & W. Co's Bone Fertilizer	New York	2245
Swift & Company, Chicago, Ill.	Riverhead Town Agri. Society Fertilizer Formula No. 1	Riverhead	2328
Swift & Company, Chicago, Ill.	Riverhead Town Agri. Society Fertilizer Formula No. 2	Riverhead	2329
Swift & Company, Chicago, Ill.	Riverhead Town Agri. Society Fertilizer Formula No. 3	Peconic	2388

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2668	Guaranteed Found	2.88 2.82	8. 10.77	 13.11	7. 6.70
2976	Guaranteed Found	9. 9.44	 	6. 7.83	
2437	Guaranteed Found	2. 2.77	8. 11.40	16. 18.92	3.50 5.01
2892	Guaranteed Found	 10.97	 12.36	 12.36	 8.72
2907	Guaranteed Found	 3.52	 	 23.44	
3160	Guaranteed Found	 	11.50 11.95	 13.21	5. 5.04
3159	Guaranteed Found	3.29 3.07	8. 8.52	 9.26	8. 7.96
3162	Guaranteed Found	.82 .82	10. 10.37	 11.23	10. 10.32
3161	Guaranteed Found	1.65 1.60	8. 8.29	 9.09	10. 10.40
3163	Guaranteed Found,	1.65 1.65	10.50 10.58	 11.50	6. 7.10
2246	Guaranteed Found	3. 3.65	5. 5.98	7. 8.20	6. 7.
2245	Guaranteed Found	3. 4.04	 	20. 22.21	
2328	Guaranteed Found	4.10 4.31	8. 8.63	 9.40	5. 5.86
2329	Guaranteed Found	4.93 5.16	8. 8.05	 8.73	5. 6.02
2388	Guaranteed Found	4.10 3.94	8. 8.50	 9.12	8. 7.90

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Swift & Company, Chicago, Ill.	Swift's Diamond C Fertilizer	Union	2540
Swift & Company, Chicago, Ill.	Swift's Diamond D Fertilizer	Unadilla	2527
Swift & Company, Chicago, Ill.	Swift's Diamond E Fertilizer	Cortland	2152
Swift & Company, Chicago, Ill.	Swift's Diamond E Fertilizer	Silver Creek	2754
Swift & Company, Chicago, Ill.	Swift's Diamond G Fertilizer	Cortland	2151
Swift & Company, Chicago, Ill.	Swift's Diamond H Fertilizer	Spencer	3041
Swift & Company, Chicago, Ill.	Swift's Early Potatoes and Vegetables Grower	Newark Valley	3008
Swift & Company, Chicago, Ill.	Swift's Garden City Acid Phosphate	Owego	2847
Swift & Company, Chicago, Ill.	Swift's Grain Fertilizer	Owego	2846
Swift & Company, Chicago, Ill.	Swift's High Grade Phosphate and Potash	Romulus	2573
Swift & Company, Chicago, Ill.	Swift's Onion, Potato and Tobacco	Unadilla	2528
Swift & Company, Chicago, Ill.	Swift's Potato, Celery and Onion Grower	Collins	2638
Swift & Company, Chicago, Ill.	Swift's Pulverized Sheep Manure	Burt	2500
Swift & Company, Chicago, Ill.	Swift's Pure Bone Meal	Burt	2499
Swift & Company, Chicago, Ill.	Swift's Pure Diamond B Fertilizer	Burt	2498
Swift & Company, Chicago, Ill.	Swift's Pure Diamond F Fertilizer	Collins	2637
Swift & Company, Chicago, Ill.	Swift's Pure Diamond G Fertilizer	Silver Creek	2753

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2540	Guaranteed Found	1.65 1.60	8. 8.44	9. 8.89	4. 3.72
2527	Guaranteed Found	2.47 2.48	6. 8.32	7. 8.56	10. 11.84
2152	Guaranteed Found	3.29 2.87	8. 8.41	9. 9.11	7. 7.38
2754	Guaranteed Found	3.29 2.85	8. 8.55	9. 9.98	7. 6.54
2151	Guaranteed Found	— —	10. 10.79	11. 10.97	8. 7.78
3041	Guaranteed Found	— —	12. 12.21	13. 12.35	5. 5.
3008	Guaranteed Found	3.30 3.05	6. 6.29	7. 6.85	10. 9.80
2847	Guaranteed Found	— —	14. 15.72	15. 15.88	— —
2846	Guaranteed Found	1.03 1.14	8. 7.92	9. 8.41	2. 2.40
2573	Guaranteed Found	— —	10. 9.98	11. 11.39	4. 3.92
2528	Guaranteed Found	1.65 1.60	8. 8.54	9. 9.32	7. 6.96
2638	Guaranteed Found	.82 .88	5. 5.84	6. 6.18	10. 9.34
2500	Guaranteed Found	2.47 3.05	— —	2. 3.39	2. 1.55
2499	Guaranteed Found	2.47 2.56	— —	24. 25.45	— —
2498	Guaranteed Found	2.47 1.99	8. 9.36	9. 10.35	5. 4.64
2637	Guaranteed Found	— —	8. 8.03	9. 8.50	3. 2.50
2753	Guaranteed Found	— —	10. 9.86	11. 10.24	8. 7.37

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Swift & Company, Chicago, Ill.	Swift's Pure Early Potato and Vegetable Grower	Kennedy	2107
Swift & Company, Chicago, Ill.	Swift's Pure Fertilizer Superphosphate	New York	2244
Swift & Company, Chicago, Ill.	Swift's Pure Special Potato Fertilizer	Kennedy	2108
Swift & Company, Chicago, Ill.	Swift's Pure Special Potato Fertilizer	Silver Creek	2650
Swift & Company, Chicago, Ill.	Swift's Pure Superphosphate	Randolph	2111
Swift & Company, Chicago, Ill.	Swift's Red Steer	Lounsberry	3010
Swift & Company, Chicago, Ill.	Swift's Special High Grade Acid Phosphate	Union	2541
Swift & Company, Chicago, Ill.	Swift's Special Phosphate and Potash	Horseheads	3022
Swift & Company, Chicago, Ill.	Swift's Special Tobacco Fertilizer	Baldwinsville	2827
Swift & Company, Chicago, Ill.	Swift's Truck Grower	Cortland	2154
Syracuse Rendering Co., Syracuse, N. Y.	Syracuse Animal Brand	Skaneateles	2423
Syracuse Rendering Co., Syracuse, N. Y.	Syracuse Ground Bone	North Collins	2629
Syracuse Rendering Co., Syracuse, N. Y.	Syracuse Market Garden Manure	Baldwinsville	2556
Syracuse Rendering Co., Syracuse, N. Y.	Syracuse Onondaga Brand	Albion	2133
Syracuse Rendering Co., Syracuse, N. Y.	Syracuse Onondaga Brand	Skaneateles	2426
Syracuse Rendering Co., Syracuse, N. Y.	Syracuse Potato Manure	Baldwinsville	2555
Syracuse Rendering Co., Syracuse, N. Y.	Syracuse Special for Celery, Cabbage and Potatoes	Albion	2135

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2107	Guaranteed Found	3.29 2.76	6. 7.75	7. 8.56	10. 8.44
2244	Guaranteed Found	1.65 1.31	8. 8.22	9. 9.59	2. 2.54
2108	Guaranteed Found	1.65 1.70	8. 7.88	9. 8.33	10. 9.96
2650	Guaranteed Found	1.85 1.46	8. 8.52	8.50 9.47	10. 10.02
2111	Guaranteed Found	1.65 1.24	8. 9.16	9. 9.75	2. 2.34
3010	Guaranteed Found	1.65 1.61	8. 8.36	9. 9.16	2. 2.46
2541	Guaranteed Found	— —	16. 15.57	17. 15.79	— —
3022	Guaranteed Found	— —	10. 10.14	11. 10.89	2. 2.10
2827	Guaranteed Found	— 4.55	— 5.27	— 5.45	— 11.30
2154	Guaranteed Found	.82 .90	8. 8.51	9. 9.06	4. 4.78
2423	Guaranteed Found	2.46 2.44	8. 8.	9. 9.58	4. 4.54
2629	Guaranteed Found	2.46 2.52	— —	23. 24.42	— —
2556	Guaranteed Found	3.28 3.22	7. 7.71	8. 8.82	8. 8.22
2133	Guaranteed Found	.82 .87	8. 7.58	9. 8.77	4. 3.94
2426	Guaranteed Found	.82 .82	8. 7.87	9. 8.79	4. 4.12
2555	Guaranteed Found	2.46 2.65	8. 8.72	9. 10.37	6. 5.77
2135	Guaranteed Found	1.24 1.26	7. 6.87	8. 8.47	9. 9.02

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Syracuse Rendering Co., Syracuse, N. Y.	Syracuse Superphosphate	Albion	2134
Thomas & Son Co., I. P., Philadelphia, Pa.	Thomas Long Island Special 4-S-7	East Northport	2214
Thomas & Son Co., I. P., Philadelphia, Pa.	Thomas Truck and Potato Fertilizer	East Northport	2213
Thomas & Son Co., I. P., Philadelphia, Pa.	Thomas Truck and Potato Fertilizer	Riverhead	2382
Thomas & Son Co., I. P., Philadelphia, Pa.	Tip Top Super-Phosphate	Riverhead	2324
Thomas & Son Co., I. P., Philadelphia, Pa.	Truckers' High Grade Guano	Jamesport	2309
Thorburn & Co., J. M., New York, N. Y.	Thorburn's Complete Ma- nure	New York	2250
Thorburn & Co., J. M., New York, N. Y.	Thorburn's Lawn Fer- tilizer	New York	3051
Tunnell & Co., Inc., F. W., Philadelphia, Pa.	F. W. Tunnell & Co's High Grade Celery, Onion and Lettuce Ma- nure	Chester	2703
Tuscarora Fertilizer Co., Baltimore, Md.	Muriate of Potash	Wayland	3034
Tuscarora Fertilizer Co., Baltimore, Md.	Tuscarora Acid Phos- phate	Madrid	2917
Tuscarora Fertilizer Co., Baltimore, Md.	Tuscarora Alkaline	Palmyra	2974
Tuscarora Fertilizer Co., Baltimore, Md.	Tuscarora Big 4 Four	Holley	2461
Tuscarora Fertilizer Co., Baltimore, Md.	Tuscarora Crop Grower	Wayland	3033
Tuscarora Fertilizer Co., Baltimore, Md.	Tuscarora Fruit and Potato	Canton	2902
Tuscarora Fertilizer Co., Baltimore, Md.	Tuscarora High Grade	Canton	2903

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2134	Guaranteed Found	.82 .83	7. 7.04	8. 7.84	2. 2.12
2214	Guaranteed Found	3.25 3.03	8. 8.48	— 9.27	7. 6.83
2213	Guaranteed Found	4. 4.01	7. 8.18	— 8.63	8. 7.98
2382	Guaranteed Found	4. 4.18	7. 7.49	— 8.15	8. 8.28
2324	Guaranteed Found	2.50 2.61	8. 8.15	— 9.35	4. 4.28
2309	Guaranteed Found	3.25 3.11	7. 7.07	— 7.93	7. 8.22
2250	Guaranteed Found	2.47 2.69	6. 7.27	7. 8.72	6. 5.76
3051	Guaranteed Found	4.94 4.98	8. 8.39	9. 9.43	5. 5.48
2703	Guaranteed Found	2.47 2.43	6. 7.98	8. 8.43	10. 10.22
3034	Guaranteed Found	— —	— —	— —	48. 51.60
2917	Guaranteed Found	— —	14. 14.33	— 14.48	— —
2974	Guaranteed Found	— —	10. 10.53	— 11.17	5. 5.14
2461	Guaranteed Found	1.65 1.73	7. 7.09	— 8.32	4. 4.48
3033	Guaranteed Found	.82 .79	8. 8.56	— 9.15	2. 2.32
2902	Guaranteed Found	1.65 1.65	8. 8.06	— 9.16	10. 10.32
2903	Guaranteed Found	— —	10. 10.64	— 10.91	8. 8.16

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
Tuscarora Fertilizer Co., Baltimore, Md.	Tuscarora Phosphate and Potash	Port Leyden	2690
Tuscarora Fertilizer Co., Baltimore, Md.	Tuscarora Special Potato Grower	Granville	2884
Tuscarora Fertilizer Co., Baltimore, Md.	Tuscarora Standard	Salem	2882
Tuscarora Fertilizer Co., Baltimore, Md.	Tuscarora Trucker	Madrid	2916
Tuscarora Fertilizer Co., Baltimore, Md.	Tuscarora York State Special	Salem	2881
Tygart & Co., J. E., Philadelphia, Pa.	Tygart's Cabbage Manure	Aquebogue	2348
Tygart & Co., J. E., Philadelphia, Pa.	Tygart's Special Potato and Tobacco Fertilizer	Aquebogue	2301
The Van Iderstine Co., Long Island City, N. Y.	Van Iderstine's Pure Ground Bone	Long Island City	3065
Vaughan's Seed Store, New York, N. Y.	Vaughan's Lawn and Garden	New York	2249
Vaughan's Seed Store, New York, N. Y.	Vaughan's Rams Head Brand Pulverized Sheep Manure	Syracuse	2561
Vaughan's Seed Store, New York, N. Y.	Vaughan's Rose Grower Bone Meal	New York	2248
Weeber & Don, New York, N. Y.	Weeber & Don's Lawn Invigorator	New York	3061
Werner Extract Co., Mechanicville, N. Y.	Werner's Natural Fertilizer	Mechanicville	3127
Whann Co., W. E., William Penn., Pa.	Whann's Chester Valley Cabbage and Cauliflower Manure	Huntington	2204
Whann Co., W. E., William Penn., Pa.	Whann's Chester Valley Special Potato and Truck Fertilizer	Huntington	2205
White's Rendering Works, Poughkeepsie, N. Y.	Pure Meat and Bone Fertilizer	Arlington	3120

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2690	Guaranteed Found	— —	10. 10.49	— 10.96	2. 1.88
2884	Guaranteed Found	3.30 2.86	8. 8.62	— 9.02	7. 7.26
2882	Guaranteed Found	1.65 1.64	8. 8.26	— 9.47	2. 2.54
2916	Guaranteed Found	4.11 4.02	8. 8.47	— 9.58	7. 7.38
2881	Guaranteed Found	.82 1.05	8. 8.29	— 9.24	4. 4.04
2348	Guaranteed Found	2.47 2.69	7. 7.26	8. 8.13	5. 5.56
2301	Guaranteed Found	3.29 3.27	6. 6.74	7. 7.77	8. 8.48
3065	Guaranteed Found	2. 2.32	— —	27. 28.25	— —
2249	Guaranteed Found	2.88 3.32	8. 8.64	— 11.55	4. 4.18
2561	Guaranteed Found	2. 2.20	1. .95	1.20 1.45	1. 2.40
2248	Guaranteed Found	3.70 4.31	— —	22. 22.43	— —
3061	Guaranteed Found	2.47 2.23	— —	3.50 3.57	2.50 2.40
3127	Guaranteed Found	.05 .04	.01 .11	— .23	.02 .06
2204	Guaranteed Found	4.11 4.15	6. 6.68	7. 7.82	5. 6.06
2205	Guaranteed Found	2.47 2.63	7. 7.45	8. 8.02	7. 6.94
3120	Guaranteed Found	4. 5.47	— —	17 14.50	— —

ANALYSES OF SAMPLES OF FERTILIZERS

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Number.
The Wilcox Fertilizer Co., Mystic, Conn.	Acid Phosphate	Greenport	2370
The Wilcox Fertilizer Co., Mystic, Conn.	Kainit	Greenport	2369
The Wilcox Fertilizer Co., Mystic, Conn.	Wilcox Cauliflower Fertilizer	Greenport	2384
The Wilcox Fertilizer Co., Mystic, Conn.	Wilcox Dry Ground Acidulated Fish	Greenport	2386
The Wilcox Fertilizer Co., Mystic, Conn.	Wilcox 5-8-7 Fertilizer	Greenport	2366
The Wilcox Fertilizer Co., Mystic, Conn.	Wilcox Fish and Potash	Riverhead	2381
The Wilcox Fertilizer Co., Mystic, Conn.	Wilcox Fish Guano	Greenport	2387
The Wilcox Fertilizer Co., Mystic, Conn.	Wilcox Long Island Dry Ground Fish	Aquebogue	2376
The Wilcox Fertilizer Co., Mystic, Conn.	Wilcox Nitrate of Soda	Greenport	2368
The Wilcox Fertilizer Co., Mystic, Conn.	Wilcox Potato, Onion and Vegetable Phosphate	Greenport	2367
The Wilcox Fertilizer Co., Mystic, Conn.	Wilcox Pure Ground Bone	Greenport	2371
The Wilcox Fertilizer Co., Mystic, Conn.	Wilcox 6-8-5 Fertilizer	Greenport	2385
Witbeck, Chas. W., Schenectady, N. Y.	Witbeck's High Grade Lawn Fertilizer	Schenectady	2893
Unknown	Machine Dried Fish Scrap	Riverhead	2339
Unknown	Muriate of Potash	Riverhead	2338

COLLECTED IN NEW YORK STATE IN 1912.

Number.		POUNDS IN 100 POUNDS OF FERTILIZER.			
		Nitrogen.	PHOSPHORIC ACID.		Potash.
			Available.	Total.	
2370	Guaranteed Found	— —	15.50 15.20	16. 16.37	— —
2369	Guaranteed Found	— —	— —	— —	12. 13.
2384	Guaranteed Found	4.11 4.53	6. 6.69	7. 8.99	5. 5.32
2386	Guaranteed Found	7.81 8.57	4. 5.57	5. 6.32	— —
2366	Guaranteed Found	4.11 4.64	8. 7.99	9. 9.48	7. 7.14
2381	Guaranteed Found	2.46 2.91	5. 5.25	6. 7.60	3. 4.08
2387	Guaranteed Found	4.10 4.37	2. 2.48	3. 6.63	— —
2376	Guaranteed Found	7.50 8.46	4. 5.20	5. 6.19	— —
2368	Guaranteed Found	15. 15.41	— —	— —	— —
2367	Guaranteed Found	3.30 3.55	8. 8.66	9. 9.73	7. 7.98
2371	Guaranteed Found	2.46 4.35	— —	22. 21.98	— —
2385	Guaranteed Found	4.93 5.33	8. 8.01	9. 9.58	5. 5.84
2893	Guaranteed Found	— 1.97	— 8.33	— 10.38	— 3.12
2339	Guaranteed Found	— 9.39	— —	— 6.12	— —
2338	Guaranteed Found	— —	— —	— —	— 51.

ANALYSES OF SAMPLES OF AGRICULTURAL LIME

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Num- ber.		Calcium oxide. Per ct.
American Lime & Stone Co., Tyrone, Pa.	"Burnt Lime for Agricultural Use"	Elmira	3012	G* F	84. 79.69
American Lime & Stone Co., Tyrone, Pa.	Hydra-Oxide of Lime	Elmira	3011	G* F	66.75 71.26
Buffalo Fertilizer Co., Buffalo, N. Y.	Buffalo Brand Agri- cultural Lime	Moravia	2516	G* F	50. 45.76
Buffalo Fertilizer Co., Buffalo, N. Y.	Buffalo Brand Agri- cultural Lime	Iroquois	2635	G* F	50. 49.88
The Caledonia Chemical Co., Caledonia, N. Y.	Agricultural Lime	Caledonia	3165	G* F	50. 49.49
The Caledonia Marl Co., Caledonia, N. Y.	Agricultural Lime	Unadilla	2593	G* F	50. 50.60
Conley Stone Co., F. E., Utica, N. Y.	Raw Ground Lime	Chenango F'ks	2440	G* F	51.5 51.52
Corson, G. & W. H., Plymouth Meeting, Pa.	Corson's Prepared Lime Hydrated	Owego	2848	G* F	48. 44.64
Dutchess County Lime Co., Dover Plains, N. Y.	Agricultural Lime	Bedford Hills	3105	G* F	— 43.75
Edison Portland Cement Co., New Village, N. J.	Limestone	Cortland	3040	G* F	— 51.32
Genesee Lime Co., Hon- eoye Falls, N. Y.	Genesee Hydrate	Newfane	2602	G* F	65. 70.34
Genesee Lime Co., Hon- eoye Falls, N. Y.	Genesee Hydrate	Honeoye Falls	3166	G* F	65. 71.42
The Haserot Canneries Co., Cleveland, O.	Horse Head Car- bonate of Lime	Eden Center	2621	G* F	52.56 48.16
The Kelley Island Lime & Transport Co., Cleve- land, O.	Ground Limestone for Agricultural Purposes	Perry	2997	G* F	— 43.19
Le Roy Lime Works and Stone Quarries, Le Roy, N. Y.	Le Roy Agricul- tural Lime	Le Roy	3164	G* F	— 68.76
National Mortar and Sup- ply Co., Pittsburg, Pa.	Banner Hydrated Lime	Cherry Creek	2957	G* F	— 51.12

* G and F mean, respectively, Guaranteed and Found.

ANALYSES OF SAMPLES OF AGRICULTURAL LIME

NAME AND ADDRESS OF MANUFACTURER OR JOBBER.	Brand or trade name.	Locality where sample was taken.	Num- ber.		Calcium oxide. Per ct.
New Castle Portland Cement Co., New Castle, Pa.	Pulverized Lime- stone	Mayville	2961	G* F	— 43.50
Rockland & Rockport Lime Co., Rock- land, Me.	R-R Land Lime	Jamesport		G* F	55. 63.60
Security Cement and Lime Co., Berkeley, W. Va.	Berkeley Hydrated Lime	Clarence	2776	G* F	70. 71.48
Security Cement and Lime Co., Berkeley, W. Va.	Ground Limestone	Hamburg	2624	G* F	44. 48.74
The Solvay Process Co., Syracuse, N. Y.	Land Lime	Schoharie	2736	G* F	60. 69.78
The Standard Lime & Stone Co., Baltimore, Md.	Standard Ground Limestone	Perry	2996	G* F	53. 63.48
Woodville Lime & Cement Co., Toledo, O.	Agricultural Lime	East Aurora	3153	G* F	— 50.68

* G and F mean, respectively, Guaranteed and Found.

ANALYSES OF SAMPLES OF LIME COMPOUNDS

Name and address of manufacturer or jobber and brand or trade name.	Where taken.	Number.		PHOSPHORIC ACID		Potash.	Calcium oxide.
				Available.	Total.		
The Caledonia Chemical Co., Caledonia, N. Y. Wood Ashes Substitute	East Scho-dack	3124	G* F	1.50 1.40	2.50 1.73	5.50 5.44	35. 42.56
Corson, G. & W. H., Plymouth Meeting, Pa. Corson's Prepared Lime and Ash	Apalachin	2810	G* F	— —	— —	3. 2.92	40. 31.52
New England Lime Co., Danbury, Conn. Connecticut Lime Ashes	Oneonta	2841	G* F	— —	— 1.12	— 1.42	— 29.98

* G and F mean, respectively, Guaranteed and Found.