## THE

## Connecticut Agricultural Experiment Station,

NEW HAVEN, CONN.

## BULLETIN No. 104.

OCTOBER, 1890.

The Bulletins and Reports of this Station are mailed free to every citizen of Connecticut who applies for them seasonably.

## FERTILIZERS.

Nitroger	nous Supe	rphosphate	es and	Guand	os,			p. 1
"		"		"	analy	zes,		2-18
Special	Manures,			•	•		•	2
6.6	64	analyses						14_20

On the following pages are tabulated analyses of 65 nitrogenous superphosphates and guanos and of 33 special manures. These analyses have been made of samples collected in all parts of the state during April and May of this year by special agents of the Station. Full discussion of these analyses is reserved for the annual report. Attention is here called to the following facts:

Nitrogenous Superphosphates.—Of the 65 brands analyzed, 22, or more than one-third, contain less of a single ingredient than is required by the manufacturer's guarantee. Two brands are thus

deficient in respect of two ingredients. In only 7 cases is there a deficiency of the most valuable ingredient, nitrogen, and in several cases the deficiency is in potash and due to a form of guarantee which is misleading and in this state illegal. The manufacturer is required to guarantee the actual potash. "Potash, sulphate, 4 per cent," is understood to mean 4 per cent, of actual potash in the form of sulphate and not 2.16 per cent. of potash combined with 1.84 per cent. of sulphuric acid.

The average cash ton price of these 65 brands has been \$33.74; the average valuation \$28.14; the difference \$5.60; and the percentage difference 19.9 per cent. This means that in general the purchaser has paid about one-fifth more per pound for nitrogen, phosphoric acid and potash when purchased ready-mixed than he has had to pay for the same elements of plant food unmixed.

Special Manures.—Of the 33 brands analyzed, 10 contain less of a single ingredient than is required by the manufacturer's minimum guarantee and 2 others are thus deficient in two ingredients.

The average cash ton price of these 33 brands has been \$39.18; the average valuation \$32.90; difference \$6.28; and the percentage difference 19.0 per cent.

Eleven of the special manures are designed particularly for the potato crop. The opinions of manufacturers, as well as those of farmers, would seem to differ widely regarding the fertilizers best suited to this crop, for it will be seen from the tables that the per cent. of nitrogen in the several potato manures ranges from 2.0 to 5.3 per cent., the phosphoric acid from 7.7 to 11.2, and potash from 4.2 to 10.0 per cent. If applied according to the manufacturer's directions, the different potato manures would supply from 13 to 53 pounds of nitrogen, from 52 to 100 pounds of phosphoric acid, and from 30 to 54 pounds of potash to the acre.

Four of the formulas contain about a third of their nitrogen in the form of nitrates, but four others contain no nitrates whatever. Two others contain all but a fraction of one per cent. of their nitrogen in the form of ammonia salts, but four others contain no ammonia.

It is evident that while each of these several brands may be an excellent general fertilizer, the claim that each or a majority of them is preëminently adapted to the special needs of the potato crop would be absurd.

NITROGENOUS SUPERPHOSPATES AND GUANOS SAMPLED BY THE STATION.

Station No.	Name or Brand.	Manufacturer.	Dealer.	Dealers' cash price per ton.
5909	Dry Ground Fish Guano.	Leander Wilcox, Mystic Bridge.	C. M. Smith, E. Hartford.	-
2879	Acidulated Fish Guano.	re.	C. M. Smith, E. Hartford.	\$22.00
9919	Dry Ground Fish.	Quinnipiac Co., New London.	Olds & Whipple, Hartford.	36.00
8068	Pure Dry Fish.	Joseph Church & Co., Tiverton, R. I.	H. K. Brainard, Thompsonville.	36.00
27.18	Sanderson's Formula. A. A.	n.	J. J. Merwin, Orange.	36.00
1685	Flour of Bone Phosphate.	G. W. Miller, Middleffeld.	Manufacturer.	35.00
2828	Fish and Potash.	E. R. Kelsey, Branford.	Wilson & Burr, Middletown.	28.00
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	Miles Payne, Cheshire.	25.00
2880	swift sure superphosphate.	M. L. Shoemaker & Co., Phila., Pa.	F. Barstow & Co., Norwich.	37.00
2857	Ammoniated Bone Superphosphate.	Russell Coe, Tremley, N. J.	City Coal and Wood Co., New Britain.	30.00
			Wilson & Burr, Middletown.	30.00
2904	Harvest Queen Phosphate.	H. S. Miller & Co., Newark, N. J.	S. J. Hall, Meriden. J. O. Fox. Putnam.	32.00 25.00
			H. K. Brainard, Thompsonville.	28.00
2874	Market Garden Manure.	Quinnipiae Co., New London.	E. B. Clark, Milford.	39.00
			J. F. Elwood, Southport.	41.00
2802	Standard or Success Fertilizer.	ural Chemical Works,	J. A. Lewis, Willimantic.	28.00
-		Newark, N. J.	A. N. Clark, Milford.	25.00
2823	Ammoniated Bone Phosphate.	Lister's Agricultural Chemical Works. Edw. Carroll. E. Hartford	J. H. Fish, Newington. Edw. Carroll. E. Hartford.	37.00
		Newark, N. J.	A. N. Clark, Milford.	28.00
			G. T. Fowler, Branford.	28.00
2873	Cumberland Superphosphate.	Cumberland Bone Co., Portland, Me.	Haley & Cheseboro, Stonington.	35.00
			H. H. Davenport, Putnam.	34.00
2761	Pine Island Phosphate.	Quinnipiac Co., New London.	J. E. Leonard, Jewett City.	32.00
			John Taylor, Old Mystic. Olds & Whipple, Hartford	35.00
		Contract of the state of the state of	B. E. Johnson, Higganum.	32.00

NITROGENOUS SUPERPHOSPHATES AND GUANOS SAMPLED BY THE STATION-Continued.

Station No.	Name or Brand.	Manufacturer.	Dealer.	Dealers' cash price per ton.
2195	Complete Manure, A Brand.	Mapes' Formula and Peruvian Guano Mapes' Branch, Hartford, Co., N. Y.	Mapes' Branch, Hartford. Wilson & Burr, Middletown.	\$36.00
2839	Fish and Potash.	J. P. Barstow & Co., Norwich. Bowker Fertilizer Co., 43 Chatham F. Hallock & Co., Birmingham.	J. P. Barstow & Co., Norwich. F. Hallock & Co., Birmingham.	36.00
2765	A. A. Ammoniated Bone Superphos	A. A. Ammoniated Bone Superphos- H. J. Baker & Bro., 215 Pearl St., N. Y. W. W. Cooper, Suffield.	W. W. Cooper, Suffield.	37.50
	phate.		A. L. Winton, Bridgeport. M. F. Gregory & Co., Milford.	37.50
			W. F. Andross, E. Hartford.	37.50
2797	Complete Manure for General Use.	Mapes' Formula and Peruvian Guano Mapes' Branch, Hartford. Co., N. Y.  W. H. Childs, Manchester	Mapes' Branch, Hartford. W. H. Childs, Manchester.	39.00
	i		Dean & Horton, Stamford.	40.00
5166	Ammoniated Bone Phosphate.	National Fertilizer Co., Bridgeport.	N. C. Barker, Lebanon. G. H. & H. B. Williams. E. Hartford.	32.00
			T. E. Eldridge, Norwich.	00 30
	,		S. W. Currier, Bridgeport.  E. B. Clark, Milford.	30.00
2822	Farmers' New Method Fertilizer.	Bradley Fertilizer Co., 27 Kilby St., Warren, Clark & Taylor, Sandy Hook.	Warren, Clark & Taylor, Sandy Hook.	32.00
		Boston, Mass.	J. E. Leonard, Jewett City.	32.00
			Prenuss & roung, Norwich, D N Clark & Sons Milford	30.00
			W. J. Starr. Groton.	34.00
	The state of the s	The Control of the second of t	G. R. Fowler, Central Village.	34.00
			F. S. Bidwell, Windsor Locks.	30.00
			Carter & Strong, Manchester.	34.00
			Wilson & Burr, Middletown.	34.00
			G. W. Carver, Putnam.	29 00

NITROGENOUS SUPERPHOSPHATES AND GUANOS SAMPLED BY THE STATION-Continued.

Station No.	Name or Brand.	Manufacturer.	Dealer.	Dealers' cash price per ton.
5860	Darling's Animal Fertilizer.	L. B. Darling Fertilizer Co., Paw. R. P. Hubbard Middletown.	R. P. Hubbard, Middletown.	\$36.00
		cucket, K. 1.	F. S. Bidwell, Windsor Locks. J. P. Barstaw & Co. Norwich	35.00
2798	Complete Manure for Light Soils.	Mapes' Formula and Peruvian Guano Mapes' Branch, Harfford	Mapes' Branch, Hartford.	44.00
		CO., A. I.	Wilson & Burr. Middletown.	44.00
2762	Ammoniated Bone Superphosphate,	Superphosphate, Williams & Clark Fertilizer Co., 81 Dix & Wells, Wethersfield.	Dix & Wells, Wethersfield.	35.00
		Fulton St., N. Y.	Daniel Morgan, Poquonock.	35.00
			C. L. Backus, Andover.	
			Charles Stagg, Stratford.	35.00
			Abbott & Co. Birmingham.	40.00
			F. S. Bidwell, Windsor Locks.	34.00
			H. K. Brainard, Thompsonville.	35.00
			J. P. Little, Columbia.	36.00
2793	Chittenden's Fish and Potash.	National Fertilizer Co., Bridgeport.	G. H. & H. B. Williams, E. Hartford.	32.00
			N. C. Barker, Lebanon.	33.00
			T. E. Eldridge, Norwich.	34.00
2876	Fish and Potash, Plain Brand.	Quinnipiac Co., New London.	A. J. Martin, Wallingford,	28.00
9760	Oninnipiae Phosphate.	Ouinniniae Co., New London.		36.00
	_		G. M. Williams, New London.	37.00
			D. C. Wood, Stratford.	37.00
			J. S. Worthington, Portland.	36.00
			Olds & Whipple, Hartford.	38.00

NITROGENOUS SUPERPHOSPHATES AND GUANOS SAMPLED BY THE STATION-Continued.

Station No.	Name or Brand.	Manufacturer.	Dealer.	Dealers' cash price per ton.
2815	Ammoniated Bone Phosphate.	Bowker Fertilizer Co., 43 Chatham St., J. E. Leonard, Jewett City. Boston, Mass.	J. E. Leonard, Jewett City. N. E. Smith, Woodmont.	\$32.00
			E. B. Clark, Milford. W. B. Martin. Rockville.	34.00
2976	Standard Bone Superphosphate.	H. S. Miller & Co., Newark, N. J.	Staples & Raymond, Westport. Southington L. & F. Co., Southington.	35.00
1786	Sea Fowl Guano	Readley Rerilizer Co. 27 Kilby St. W. W. Cooper. Suffield.	A. Williams, Collinsville, W. W. Cooper, Suffield,	35.00
0000	Donel Bone Dhembete	Williams & Clark Rarilliam Co. 81 Hele Day & Co. South Manchester	F. S. Bidwell, Windsor Locks.	32.00
200	royal bone i nospilate.	Fulton St. N. Y.	F. S. Bidwell, Windsor Locks.	30.00
2852	Fish and Potash, Anchor Brand.	30., 27 Kilby St.,	St., H. J. Morse, Cheshire, B. A. Porker, Warshouse Point	32.00
2820	Bradley's Patent Superphosphate of Bradley Fertilizer Co., 27	Killby	St., N. C. Barker, Lebanon.	36.00
	Lime.		W. J. Starr, Groton.	38.00
			J. E. Leonard, Jewett City.	36.00
			Burtis & Mead, New Canaan. D. N. Clark & Sons Milford.	34.00
			E. B. Clark. Woodmont.	37.00
			Warren, Clark & Taylor, Sandy Hook.	
			E. E. Scoffeld, Stamford.	34.00
			J. E. Holmes, Stratford. Wheeler & Howe Bridgenort	37.00
			Raymond Bros., South Norwalk.	36.00
			Prentiss & Young, Norwich.	36.00
			G. A. Dickinson, Haddam.	36.00
			G. R. Fowler, Central village.	38.00
	The second secon		Dix & Wells, Wethersfield.	35.00
			Wilson & Burr, Middletown.	35.00

NITROGENOUS SUPERPHOSPHATES AND GUANOS SAMPLED BY THE STATION—Continued.

Station No.	Name or Brand.	Manufacturer.	Dealer.	Dealers' cash price per ton.
5850	Bradley's Patent Superphosphate Clime.	Bradley's Patent Superphosphate of Bradley Fertilizer Co., 27 Kilby St., J. A. Lewis, Williamstic. Lime.  R. A. Parker, Warehouse	J. A. Lewis, Willimantic. R. A. Parker, Warehouse Point.	\$38.00
			Quinnebaug Store, Danielsonville.	36.00
			W. B. Martin, Rockville.	36.00
			W. H. Cheney's Sons, S. Manchester.	38.00
			W. F. Andross, East Hartford.	36,00
			A. C. Sternberg, Hartford.	35.00
			G. W. Carver, Putnam.	35.00
			H. D. Lanphear, Chaplin.	36.00
			F. S. Bidwell, Windsor Locks.	34.00
2768	High Grade Phosphate.	E. Frank Coe, 16 Burling Slip, N. Y.	N. C. Barker, Lebanon.	34.00
			I. W. Denison & Co., Mystic.	33.00
			Wheeler & Howe, Bridgeport.	35.00
			Backus Bros., South Windham,	34.00
			F. P. Burr & Co., Middletown.	35.00
			Arnold Rudd, New London.	. 33.00
			J. P. Barstow & Co., Norwich.	32.00
			J. A. Amidon, Wethersfield.	33.00
008	2800 - Chittenden's Complete Fertilizer.	National Fertilizer Co., Bridgeport.	G. H. & H. B. Williams, E. Hartford.	42.00
			D. Fitzgerald, Stratford.	42.00
			D. G. Penfield, Danbury.	42.50
2833	Reese's New England Favorite.	Reese's New England Favorite. J. S. Reese & Co., New Bedford, Mass. Ansell Arnold & Co., Willimantic.	Ansell Arnold & Co., Willimantic.	29.00
2813	Clark's Cove Bay State Fertilizer, G. (	J. J. S. Reese & Co., Licensee, New Bed-	Ansell Arnold & Co., Willimantic.	28.50
		ford, Mass.	H. H. Davenport, Pomfret.	32.00
			W. Tillinghast, Plainfield.	37.50
6888	Viotor Phosphate.	Apothecaries Hall Co., Waterbury.	Manufacturer.	30.00
2892	Bone, Fish and Potash.	Read Fertilizer Co., N. Y.	W. F. Andross, East Hartford.	30.00
			H. E. Ives, Cheshire.	30.00

NITROGENOUS SUPERPHOSPHATES AND GUANOS SAMPLED BY THE STATION-Continued.

Station No.	Name or Brand.	Manufacturer.	Dealer.	Dealers' cash price per ton.
2803	Hill and Drill Phosphate.	Bowker Fertilizer Co., 43 Chatham St., Hull & Sweet, South Coventry. Boston, Mass.	Hull & Sweet, South Coventry. C. H. Bell, Portland.	\$38.00
			J. H. Ives, Danbury.	38.00
			C. T. Leonard, Norwalk.  B. Curtis & Son. Stenney.	38.00
			W. B. Martin, Rockville.	37.00
			J. H. Fish, Newington.	36.00
2905	Olds & Whipple's Special Phosphate.	Made for Dealer.	Olds & Whipple, Hartford.  A H Hinckley Old Mystic	30.00
2843	Original Coe's Superphosphate.	o., 27 Kilby	St., F. S. Bidwell, Windsor Locks.	33.00
2835	Soluble Pacific Guano.	Boston, Mass. W. D. Stewart & Co., Boston, Mass.	P. J. Bolan, Waterbury. W. F. Andross, East Hartford.	34.00
2974	Dissolved Bone Phosphate.	H. S. Miller & Co., Newark, N. J.	City Coal and Wood Co., New Britain. Staples & Raymond, Westport.	36 00
2066	Fish and Potash.	Joseph Church & Co., Tiverton, R. I.	A. Williams, Collinsville.  H. K. Brainard, Thompsonville.	28.00
5812	ish, Crossed	Fishes Quinnipiac Co., New London.	Olds & Whipple, Hartford. B. E. Johnson, Higganum. I B. Silliman, New Canan.	34.00 34.00
			A. L. Martin, Wallingford. J. P. Little, Columbia.	34.00 35.00
2807	Pilgrim Fertilizer.	J. S. Reese & Co., New Bedford, Mass. Ansell Arnold & Co., Williamtic.	Ansell Arnold & Co., Willimantic.	24.00
*00	Alkaline Guano.	ford, Mass.	H. H. Davenport, Pomfret.	30.00
5850	Cecrops Fertilizer.	F. Ludlam, 140 Maiden Lane, N. Y.	Ahlquist & Allison, Portland.	38.00
2830	Farmers' Friend Fertilizer.	Read Fertilizer Co., N. Y.	W. F. Andross, East Hartford.	35.00
	The state of the s		K. F. Hubbard, Middletown. H. E. Ives. Cheshire.	35.00

NITROGENOUS SUPERPHOSPHATES AND GUANOS SAMPLED BY THE STATION—Concluded.

No.	Name or Brand,	Manufacturer.	Dealer.	Dealers' cash price per ton.
2827	Cereal Fertilizer.	F. Ludlam, 140 Maiden Lane, N. Y.	W. J. Starr, Groton. W. Tillinghast, Plainfield. Ahlquist & Allison. Portland.	\$32.00
			C. A. Young, Danielsonville.	31.00
2799	Ammoniated Bone Superphosphate.	Crocker Fertilizer Co., Buffalo, N. Y.	L. Browning, New London.	37.00
			Dix & Wells, Wethersfield.	35.00
			J. E. Leonard, Jewett City.	36.00
2000	Tion Daniel Boatilian	Dood Poutilions Co N V	Haley & Cheeseboro, Stonington.	45.00
2020	Lion brand refunder.	head retuined Co., N. 1.	W. Tillinghast, Plainfield.	33.00
			H. E. Ives, Cheshire.	32.00
0000		4 4 6	W. F. Andross, East Hartford.	32.00
2196	New Kival Phosphate.	Crocker Fertilizer Co., Bullalo, N. Y.	L. L. Herman, Noroton.	32.00
			L. Browning, New London. J. A. Lewis, Willimantic.	30.00
2890	Peruvian Guano. Cargo C. R. Lewis	Peruvian Guano. Cargo C. R. Lewis, Mapes' Formula and Peruvian Guano		62.00
		Co., 158 Front St., N. Y., Importers.		
2855	Alkaline Bone Phosphate.	E. Frank Coe, 16 Burling Slip, N. Y.	Backus Bros., South Windham.	34.00
. 851	Triangle A Fish and Potash	Bradley Fertilizer Co. 27 Kilby St. Burtis & Mead New Canasan	H. S. Hall, (2d) Wallinglord. Burtis & Mead New Canasa	33.00
	The state of the s	Boston, Mass.	Raymond Bros., South Norwalk.	30.00
2831	Fish and Potash.	Farmers' Fertilizer Co., Syracuse, N. Y. A. C. Sternberg, Hartford.	A. C. Sternberg, Hartford.	34.00
2856	High Grade Fish and Potash.	E. Frank Coe, 16 Burling Slip, N. Y.	W. T. Andrews, Orange.	29.00
	:		F. P. Burr & Co., Middletown.	30.00
2889	Davidge Vegetator.	Davidge Fertilizer Co., 121 Front St., J. M. Burke, South Manchester.	J. M. Burke, South Manchester.	35.00
2894	Ammoniated Bone Superphosphate.	Stearns Fertilizer Co., 181 Front St., R. P. Hubbard, Middletown.	R. P. Hubbard, Middletown.	34.00
2832	Standard Special Formula. Economical Bone Fertilizer.	Farmers' Fertilizer Co., Syracuse, N. Y. W. H. Childs, Manchester. Wilkinson & Co., 54 William St., N. Y. R. H. Coley, Southport.	W. H. Childs, Manchester. R. H. Coley, Southport.	32.00

ANALYSES OF NITROGENOUS SUPERPHOSPHATES SAMPLED BY THE STATION.

.0.			N	Nitrogen					Phosp	0	Acid.			Potash.	sh.				16
N uo	Name or Brand.	su t	as i	on,	.bm	en.	.9	.ba	.91	·pun	·pəə	Avail	Available.	1	peq,	*0	oT .		od ue
Stati		Mitrogei	Nitrogen Ammon	Nitroga InggrtO	Total Mi	Nitrog Justanti	Idulos	Вечеть	Insolub	Total Fo	Total Justen D	Found.	Guar.	оппол	Эпатапъ	Съдоти	Cost per	Montov	TollaulaV TollaulaV
2909	Wilcox's Dry Ground Fish Guano Wilcox's Acidmated Fish	1	1	8.61	8.61	8.0	.93	4.20	1.93	7.06		5.13	4.0				\$32.00	\$38.	67
2919	Guano Ory Ground	11	76.	4.59	5.56	7.0.5	1.76	2.72	2.43	4.95	11	4.48	4.0	11	11		22.00	39	26.09
2908	Church & Co Fish Sanderson's F	2.33		8.84	8.84	00 00 03 00	.72	4.26	2.71	7.69	10.0	4.98	8.9	8.64	6.0	2.26	47.50 36.00 35.00	39.23 34.96	96
2891.	G. W. Miller Phosphate Kelsey's Fis	1.12	12.	3.33	4.66	0.40	2.56	3.16	.68	12.60+	9.0	5.72	1	4.92	1.1	3.98	35.00	34.63	63
2880	Shoemaker's Superphosph	7.6.	-	2.57	3.14	10.	8.03	3.86	3.54 1	15.43	. !	11.89	9.0	4.87	4.0	.32	37.50	36.	87
2897	Bone Phosphate	1	-	2.83	2.83	1.7	80.9	2.70	1.07	9.85	10.01	8.78	8.0	4.58	2.0	4.67	30.00	28.13	133
9874	Phosphate Market Comminger Market	1	-	1.71	1.71	00.	6.14	2.69	1.11	9.94		8.83	10.0	2.61	7.5	.30	25.00	23.	36
2802	Manure Lister's Standard or	.59	1.18	1.80	3.57	65.00	4.70	5.66	.86 1	11.22	1	10.36	8.0	7.05	2.0	.42	40.00	36.	99
9893		-	-	2.03	2.03	1.0	7.36	2.79	2.17 1	12.32	1	10.15	10.0	1.37	1.3	.52	28.00	25.	61
2873	Phosphate Cumberland Superphos	.31	11	2.05	2.05	2.0	1.05	2.51 6.48	2.47 1	12.03	12.0	9.56	9.0	1.56	2.0	.18	28.00	25.31	===
21012	Phosphate	!	:	2.48	2.48	2.0	4.95	7.08	1.34 13.37	13.37		12.03	9.0	1.07	1.0	1.24	32.00	28.73	63

+ A mixture of fertilizer chemicals and ground bone, 89 per cent. of which passes holes 2/5 inch in diameter.

\* Valuation exceeds cost.

ANALYSES OF NITROGENOUS SUPERPHOSPHATES SAMPLED BY THE STATION-Continued.

			Z	Nitrogen.					Phosphoric Acid.	oric A	cid.			Potash.	sh.		.0	ı	Tell
on u	Nome on Bean	.8	as i	*u	-01: pu	.bed.	**	·p	.91	·pur	.bed.	Available.	.ble.		eg.	ne.	10T 1	ou be	M 92
Statio	Transco Design	Nitrogen Nitrate	Nitrogen Ammon	Nitroge Organi	Total Vil	Witroge Guarante	Soluble	Reverte	quiosui	Total For	Total Guarante	Found.	Guar- anteed.	Lound	Guarante	СЪГОТІ	Cost be	diantaV noT	Percenta ence be Cost an tion.
2795	Mapes' Complete Manure,																		
	A Brand	.35	.72	1.90	2.97	2.5	7.39	4.28		13.50	12.0	11.67	10.0	3.05	2.5	3,61	\$36.00	\$32.02	
2839	Bowker's Fish and Potash.	i	-	2.54	2.54	05 05	5.95	1.99	4.42 1	2.36	8.0	1.94	1	4.15	4.0	.27	32.50	28.68	
4046	Superp	1	1.98	98.	2.84	3.5	11.14	1.65	.36 1	13,15	Ī	12.79	10.0	3.00	0.0	2.72	37.50	32.87	14.1
	eneral Use.	.92	.64	2.17	3.73	93	7.16	3.68	2.02 1	2.86		10.84	10.01	4.17	4.0	3.51	39.00	34.17	14.1
2766	National Fertilizer Co.'s Am-																		
6686	Readley's Farmers' New	1	-	2.63	2.63	1.7	7.26	3,00	.781	11.04	9.0	10.26	7.0	2.57	2.0	1.18	32.50	28.14	15.5
	Fertilizer		1	2.31	2.31	1.6	7.74	2.72	1.30 1	11.76	10.01	10.0 10.46	8.0	2.88	3.0	2.79	32.00	27.70	
988	Darling's Animal Fertilizer	1	.41	2.80	3.21	65.0	3.90	4.21	3.40 1	11.51	10.01	8.11		5.29	4.0	4.09	35.00	20.28	15.6
8612	Mapes' Complete Manure					1	2	2				100	- 0						
	pt;	1.54	1.44	2.37	5.35	6.4	4.96	3.31	2.03 1	10.30	8.0	8.27	2.0	7.05	0.9	6.70	44.00	37.91	16.1
2912	williams & Clark's Ammo- niated Bone Superphos-		Ŧ	H	Ī	Š													
	Americ	91.	.68	1.94	2.78	2.0	7.47	4.34		2,43	11.0 11.81	1.81	10.01	1.99	2.0	2.00	35.00	29.99	
2793	Chittenden's Fishand Potash	:	96.	2.95	3.88	65.	1.31	4.37	3.10	8.18	0.9	5.68		5.05	2.0	4.95	33.00		16.8
2876	Quinnipiac Fish and Potash,			0						3									
	Plain Brand	10	96.	2.25	2.81	0.0	1.60	3.31		1.91	0.9	4.91	4.0	5.22	4.0	4.97	28.00	١.,	
2815	Cumnipiac Phosphate Bowker's Ammoniated Bone	.29	1c.	1.93	2.13	0.0	4.46	06.7	1.421	2.38	1	11.96	9.0	1.90	0.0	2.40	36.00	30.08	19.7
	Phosphate	.43	-	1.81	2.24	2.0	6.29	3.25	3,33 1	12.87	10.0	9.54	8.0	2,19	3.0	2.74	31.50	26.32	19.7
2976	Miller's Standard Superphos-	į	,	0	1		1	00	,	1				1	1			-	
1100	phate Duod	000	06	2.56	2.71	4 14	9.16	69.	1 16 1	10.71	110	10.45	10.0	2.75	2.5	.30	35.00	29.22	19.7
2882	200	2		7.7	10.0	5.0	0.00	20.7	1.10	1.00	0.77	*		61.7	0.0	70.7		20.02	_
	Bone Phosphate			1 66	1.66	o	5 78	69 6	1 66 6	10.69		8.40	2.0	2.70	0.8	98	00.00	93.30	20.4

ANALYSES OF NITROGENOUS SUPERPHOSPHATES SAMPLED BY THE STATION—Continued.

.01			N	Nitrogen.					Phosp	Phosphoric Acid.	Acfd.			Pot	Potash,			'ue	
N no	Name or Brand.	'sa	as n	en,	oni ind.	eed.	.9	·pə	le,	·pun	eed.	Available	able.	.f	eed.		.eui		oT Te
Stati		Mitrogen	Mitrogen JommA	Nitrogo InsgrO	Total Vi	Nitrog Justand	ldulos	Revert	Insolub	Total Fo	Total Justend	Found.	Guar- anteed,	Found	Guarant	Сріот		Cost be	
2852	Bradley's Anchor Brand			1	1		1	1	1	1	1			1			1		
9850	Bradlev's Patent Superphos-	1	-	3.76	3.76	0. 0.	4.76	1.84	1.36	7.96	2.0	6.60	3.0	2.67	8.0	4.64	-42	\$32.00	\$32.00 \$26.39
9768	phate of Lime	.20	.14	2.37	2.71	65 65	8.53	2.42	1.10	1.10 12.05	-	10.95	9.0	1.98	7.5	2.00	0		35.00 28.84
9600	Phosphate	1	-	2.24	2.24	0.0	8.67	1.75	1.54	1.54 11.96	11.0	11.0 10.42	9.0	2,53	0.0	.33			34.00 27.95
2000	tilizer  Reese's New England	.81	1	3.03	3.84	65.0	3.34	5.60	3.79	12.73	8.0	8.94	0.9	5.49	0.9	1.84			42.00 34.52
0100	vorite	!	-	2.51	2.51	05 05	6.86	3,31	2.84	13.01	10.5	10.5 10.17	9.0	1.81	2.0	2.05			34.00 27.83
6162	tilizer, G.G.	1	.28	2.06	2,34	1.9	7.26	1.35	3.58	12.19	201	8.61	8.5	2.70	05	2.21		32.00	32.00 26.19
5889	Apothecaries Hall Co.'s Victor Phosphate		;	2.33	2.33	10.	7.68	1.36	.04	9.08	8.5	9.04		9.24	0.0	1.97		30.00	30.00 24.30
2892	Read's Fish and Potash	1	;	2.78	2.78	3.5	3.52	2.46	1.73	7.71	6.0	5.98	4.0	4.96	4.0	5.05		30.00	
2006	10'0 Cm	.81	-	2.05	2.86	2.5	7.52	2.21	2.64	12.37	11.0	9.73	10.0	2.40	0.0	.25		36.00	36.00 29.03
***	osphate	.87	:	2.07	2.94		8.61	1.07	.78	10.46	-	9.68		2.18	-	.42		35.00	35.00 27.88
2910	G. W. Miles, IXL Phosphate	:	.31	1.47	1.78	0.0	7.71	1.81	.74	.74 10.26		9.52	9.0	2.26	1.5	1.86		30.00	
*0.		.47	:	1.66	2.13	2.1	8.45	2.40	1.24	24 12.09	10.01	10.85	8.0	66	10	1.13		33.00	33.00 25.77
2835	Soluble Pacific Guano	1.85	:	.70	2.55	05	8.10	2.68	1.36	12.14	10.5	10.5 10.78	8.5	1.97	0.0	1.92		35.00	
2974	Dissolved Bone Phosphate	:	.10	1.73	1.83	9.7	7.82	1.55	.65	10.02	9.6	9.37	8.0	2.94	1.5	.25		32.00	
	Potash		.30	2.96	3.26	8.8	1.55	2.71	88.	5.14	5.0	4.26	;	3.89	8.0	6.90		28.00	28.00 21.67
2875	Quinnipiac Fish and Potash, Crossed Fishes Brand		18	3.02	9 80	0	1 10	0 40	20	0 40	4	-	0		0	00		0	00

ANALYSES OF NITROGENOUS SUPERPHOSPHATES SAMPLED BY THE STATION—Concluded.

			N	Nitrogen.					Phosp	Phosphoric /	Acld.			Pot	Potash.				n n n
on u		SE SE	80	.,	.o.	'pa		.,	.0	.bn	·pe	Available.	able.		'pa	.91	Ton.	t ber	e Di
Station	Name or Brand,	Mitrogen	Mitrogen	Vitrogen Organic	Total Min	Nitrogei Guarantee	Soluble	Reverted	Idulosal	Total Four	Total Separantee	Found.	Guar- anteed.	Found.	<b>Спагав</b> тее	Срјоци	Cost per	noT Toliante	Percentage ence ber Cost and tion.
2807	Reese's Pilgrim Fertilizer .	1	.28	1.42	1.70	1.0	5.70	1.00	2.22	8.92	7.5	6.70	6.5	2.99	65	2.57	\$27.00	\$20.42	32.2
2829	ine Gu	.64	11	1.73	2.49	1.85 85.85	6.35	1.37	2.31	10.03	7.5	7.72	6.5	3.29	3.0	2.33	30.00	22.51 29 95	33.3
2827	Fertiliz	.59	-11	1.95	1.95	2.0	7.37	2.92	1.62 2.11	11.91	11.0	9.90	9.0	2.25	2.0	2.23	34.50	25.80 23.78	33.7
2895	Superphosphate	:	-	2.97	2.97	6.3	6.77	2.09	1.60	10.46	1	8.86	10.0	1.49	1.0	1.25	36.00	36.37	36.5
2796	w Rival	-	1	1.20	1.20	8.	6.64	2.74	1.33	10.71	10.0	9.38	8.0	4.19	4.0	4.80	32.00	23.39	36.7
2890	ruvian Gua	11	5.15	1.48	1.48	1.2	6.51	3.99	3.27	11.86	14.7	9.27	10.0	2.14	3.0	2.13	32.00	23.07	38.7
2851			1	1.42	1.42	1.0	96.9	2.70	3.47	13.13	11.0	9.66	9.0	2.07	0.0	.52	34.00	24.38	39.5
9631	2 1	1	.62	2.00	2.62	0.0	3.25	1.60	1.35	6.20	0.9	4.85	4.0	3.99	4.0	6.12	30.00	20.91	43.5
9676	nd Potash	!	- 1	1.69	1.69	9.7	4.26	2.33	1.25	7.84	7.0	6.59	6.5	7.42	13.0	7.49	34.00	23.50	44.7
2895	Fish and Potash	-	11	2.21	2.21	3.0	.51	3.75	4.66	8.92	6.0	4.26 5.49	5.0	3.10	2.0	7.04	29.50	19.56	50.8
1000	hosphate	trace	.37	1.29	1.66	9.1	2.83	4.41	2.79	10.02	8.5	7.23		2.88	3.5	1.38	34.00	21.36	59.2
2962	Standard Special Formula, Wilkinson's Foonemical	60.	i	.65	47.	8:	7.30	2.09	.63	10.02	10.0	9.39	8.0	1.88	4.0	8.85	32.00	19.36	65.3
****	ertilize	-	-	1.02	1.02	1.2	.94	4.17	5.52	9.93	6.0	4.41	:	3.11	3.0	.44	32.00	17.00	88.2

SPECIAL MANURES SAMPLED BY THE STATION.

Fairchild's Formula for Seeding Down. Rogers & Hubbard Co., Middletown. Boluble Potato Manure.  2816 Selarichid's Formula for Corn and Gen-Rogers & Hubbard Co., Middletown. Bapes' Formula and Peruvian Guano Mapes' Branch, Hartford. Appes' Formula and Peruvian Guano Mapes' Branch. Hartford. Co., New York.  Complete Manure. Corn Manure. Boston, Mass. Corn Manure. Co., New York. Cooper. Stiffield. G. K. Nason. Willimantic. Co., New York. Cooper. Suffield. G. K. Nason. Willimantic. J. P. Bristone, Hartford. Co., New York. Cooper. Suffield. G. K. Nason. Willimantic. J. P. Bristone, Ranch. Hartford. Co., New York. Cooper. Suffield. G. K. Nason. Willimantic. J. P. Bristone, Ranch. Hartford. Co., New York. Cooper. Suffield. G. K. Nason. Willimantic. J. P. Bristone, Samford. Co., New York. Cooper. Suffield. G. K. Nason. Williams & Clark Fertilizer Co., Sluffled. G. K. Nason. Williams decreated. Rapes' Formula and Peruvian Guano Mapes' Branch, Hartford. Co., New York. Cooper. Suffield. G. K. Nason. Williams decreated. Co., New York. Cooper. Suffield. Coope	Station No.	Name or Brand.	Manufacturer.	Dealer.	Dealers' cash price per ton.
Annure.  Mapes' F. & P. G. Co., New York.  Mapes' Formula and Peruvian Guano Co., New York.  Bradley Fertilizer Co., 27 Kilby St., Boston, Mass.  Mapes' Formula and Peruvian Guano Co., New York.  Mapes' Formula and Peruvian Guano Co., New York.  Special for Williams & Clark Fertilizer Co., 81 Fulton St., New York.  Top Dressing. Mapes' Formula and Peruvian Guano Co., New York.  H. J. Baker & Bro., 215 Pearl St., N. Y.	2684	Fairchild's Formula for Seeding Down. Soluble Potato Manure.	Rogers & Hubbard Co., Middletown. Rogers & Hubbard Co., Middletown.	Manufacturers. Manufacturers.	\$40.00
Mapes' F. & P. G. Co., New York.  Mapes' Formula and Peruvian Guano Co., Mass.  Mapes' Formula and Peruvian Guano Co., New York.  Mapes' Formula and Peruvian Guano Co., New York.  Special for Williams & Clark Fertilizer Co., 81 Fulton St., New York.  Top Dressing. Mapes' Formula and Peruvian Guano Co., New York.  Holton St., New York.  Top Dressing. Mapes' Formula and Peruvian Guano Co., New York.  H. J. Baker & Bro., 215 Pearl St., N. Y.	5685	Fairchild's Formula for Corn and General Crops.	Rogers & Hubbard Co., Middletown.	Manufacturers.	46.00
Potatoes and Bradley Fertilizer Co., 27 Kilby St., Boston, Mass.  Mapes' Formula and Peruvian Guano Co., New York.  Special for Williams & Clark Fertilizer Co., 81 Fulton St., New York.  Top Dressing. Mapes' Formula and Peruvian Guano Co., New York.  H. J. Baker & Bro., 215 Pearl St., N. Y.	2951	Mapes' Seeding Down Manure. Fruit and Vine Manure.	Mapes' F. & P. G. Co., New York. Mapes' Formula and Peruvian Guano	Mapes' Branch, Hartford. Mapes' Branch. Hartford.	38.00
Boston, Mass.  Mapes' Formula and Peruvian Guano Co., New York.  Go., New York.  Special for Williams & Clark Fertilizer Co., 81 Fulton St., New York.  Top Dressing. Mapes' Formula and Peruvian Guano Co., New York.  H. J. Baker & Bro., 215 Pearl St., N. Y.	2819	Complete Manure for Potatoes and	Co., New York. Bradley Fertilizer Co., 27 Kilby St.,	D. N. Clark & Sons, Milford,	39.00
Mapes' Formula and Peruvian Guano Co., New York.  Go., New York.  Go., New York.  Go., New York.  Go., New York.  Top Dressing. Mapes' Formula and Peruvian Guano Co., New York.  Top Dressing. Mapes' Formula and Peruvian Guano Co., New York.  H. J. Baker & Bro., 215 Pearl St., N. Y.		Vegetables.	Boston, Mass.	Geo. Dickinson, Haddam.	40.00
Mapes' Formula and Peruvian Guano Co., New York.  Mapes' Formula and Peruvian Guano Co., New York. Co., New York. Special for Williams & Clark Fertilizer Co., 81 Fulton St., New York. Top Dressing. Mapes' Formula and Peruvian Guano Co., New York. H. J. Baker & Bro., 215 Pearl St., N. Y.				Wilson & Burr, Middletown.	38.00
Mapes' Formula and Peruvian Guano Co., New York.  Licut Brand. Mapes' Formula and Peruvian Guano Co., New York.  Special for Williams & Clark Fertilizer Co., 81 Fulton St., New York.  Top Dressing. Mapes' Formula and Peruvian Guano Co., New York.  H. J. Baker & Bro., 215 Pearl St., N. Y.				J. E. Holmes, Stratford. Carter & Strong, Manchester.	42.00
Mapes' Formula and Peruvian Guano Co., New York.  Special for Williams & Clark Fertilizer Co., 81 Fulton St., New York.  Top Dressing. Mapes' Formula and Peruvian Guano Co., New York.  H. J. Baker & Bro., 215 Pearl St., N. Y.				F. S. Bidwell, Windsor Locks.	38.00
ticut Brand. Mapes' Formula and Peruvian Guano Co., New York. Special for Williams & Clark Fertilizer Co., 81 Fulton St., New York. Top Dressing. Mapes' Formula and Peruvian Guano Co., New York. H. J. Baker & Bro., 215 Pearl St., N. Y.	1085	Corn Manure.	Mapes' Formula and Peruvian Guano	Mapes' Branch, Hartford. W. W. Cooper, Suffield	41.00
ticut Brand. Mapes' Formula and Peruvian Guano Co., New York. Special for Williams & Clark Fertilizer Co., 81 Fulton St., New York. Top Dressing. Mapes' Formula and Peruvian Guano Co., New York. H. J. Baker & Bro., 215 Pearl St., N. Y.				G. K. Nason, Willimantic.	42.60
ticut Brand.  Special for Williams & Clark Fertilizer Co., 81 Fulton St., New York.  Top Dressing. Mapes' Formula and Peruvian Guano Co., New York.  H. J. Baker & Bro., 215 Pearl St., N. Y.				J. P. Barstow & Co., Norwich.	41.00
ticut Brand. Mapes' Formula and Peruvian Guano Co., New York.  Special for Williams & Clark Fertilizer Co., 81 Fulton St., New York.  Top Dressing. Mapes' Formula and Peruvian Guano Co., New York.  H. J. Baker & Bro., 215 Pearl St., N. Y.				Dean & Horton, Stamford.	42.00
Special for Williams & Clark Fertilizer Co., 81 Fulton St., New York.  Top Dressing. Mapes' Formula and Peruvian Guano Co., New York.  H. J. Baker & Bro., 215 Pearl St., N. Y.	5828		Mapes' Formula and Peruvian Guano	Mapes' Branch, Hartford.	45.00
Top Dressing. Mapes' Formula and Peruvian Guano Co., New York.  H. J. Baker & Bro., 215 Pearl St., N. Y.	9609	Amonione High Grade Special for	10 00	W. W. Cooper, Suffield.	45.00
Top Dressing.		Tobacco.	10 '.00	John Bransfield, Portland.	40.00
	2824	Grass and Grain Spring Top Dressing.	Mapes' Formula and Peruvian Guano	G. K. Nason, Willimantic.	42.60
			CO., INEW LOIK.	W. W. Cooper, Sumera. Manes' Branch. Hartford	41.00
Allen Betts, Norwalk W. W. Cooper, Suffiel R. F. Haneley North	2804	Complete Potato Manure.	H. J. Baker & Bro., 215 Pearl St., N. Y.	M. T. Gregory & Co., Milford.	42.00
F. F. Hewler Nowton				Allen Betts, Norwalk. W W Cooper Suffield	42.00
THE STEET OF THE S	1		T O VEHICLE OF WALLEY W.	E. F. Hawley, Newtown.	42.50

SPECIAL MANURES SAMPLED BY THE STATION-Continued.

Station No.	Name or Brand.	Manufacturer.	Dealer.	Dealers' cash price per ton.
2952	Stockbridge Seeding Down Manure.	Bowker Fertilizer Co., 43 Chatham St., Southington Lumber & Feed Co., South-incton.	Southington Lumber & Feed Co., South-	\$40.00
2836	Complete Corn Manure.	H. J. Baker & Bro. 215 Pearl St., N. Y. Strong & Tanner. Winsted.	Strong & Tanner. Winsted.	40.00
	•		S. J. Hall, Meriden.	42.00
			W. W. Cooper, Suffield.	42.50
-			I. J. Scoville, Bristol.	40.00
2950	Special Potato Manure.	H. S. Miller & Co., Newark, N. J.	Staples & Raymond, Westport.	42.00
WKO	9750 Beinte Menner		H. P. Treat, Orange.	40.00
200	rotato manure.	Mapes rotmula and reruvian Guano G. B. Nason, Willimantic.	G. A. Nason, Willimantic.	44.00
		Co., N. 1.	Mapes Branch, Hartlord. I P. Barstow & Co. Norwich	45.00
			Wilson & Burr. Middletown.	43.00
			Wheeler & Howe, Bridgeport.	45.00
2861	Tobacco Manure, Wrapper Brand.	Mapes' Formula and Peruvian Guano W. W. Cooper, Suffield.	W. W. Cooper, Suffield.	52.00
		Co., N. Y.	Mapes' Branch, Hartford.	20.00
818	2818 Ammoniated Wheat and Corn Phos-Crocker Fertilizer Co., Buffalo, N. Y.	Crocker Fertilizer Co., Buffalo, N. Y.	J. A. Lewis, Willimantic.	35.00
	phate.		Dix & Wells, Wethersfield.	33.00
			C. A. Young, Danielsonville.	33.00
2840	Bowker's Tobacco Manure.	Boston, Mass.	W. B. Martin, Rockville.	44.00
2767	Potato Manure.	Williams & Clark Fertilizer Co., 81 Charles Stagg, Stratford.	Charles Stagg, Stratford.	35.00
		Fulton St., N. Y.	Joseph Roode, Jewett City.	36.00
			Daniel Morgan, Poquonock.	35.00
			H. K. Brainard, Thompsonville.	36.00
			C. L. Backus, Andover.	
			F. S. Bidwell, Windsor Locks.	36.00
			Abbott & Co., Birmingham.	40.00

SPECIAL MANURES SAMPLED BY THE STATION-Continued.

Station No.	Name or Brand.	Manufacturer.	Dealer.	Dealers' cash price per ton.
1885	Potato Manure.	Bradley Fertilizer Co., 27 Kilby St., R. C. Sternberg, Hartford. F. S. Bidwell, Windsor Lo. D. N. Clark & Sons, Milfor Wilson & Burr, Middletow N. C. Barker, Lebanon.	A. C. Sternberg, Hartford. F. S. Bidwell, Windsor Locks. D. N. Clark & Sons, Miltord. Wilson & Burr, Middletown. N. C. Barker, Lebanon.	\$37.00 35.00 35.00 35.00 37.00
			D. Beers, Danbury. City Coal and Wood Co., New Britain. W. H. Cheney's Sons, South Man-	38.00
			Waterbury & June, Greenwich. Raymond Bros., South Manchester. W. R. Martin, Rockrille.	37.00
			G. R. Fowler, Central Village. G. W. Carver, Putnam.	36.00
	•		Carter & Strong, Manchester. J. E. Leonard, Jewett Gity. G. A. Dickinson, Haddam.	39.00 38.00 38.00
	A STATE OF THE STA		F. C. Root, Suffield. W. F. Andross, Bast Hartford. W. W. Cooper, Suffield. J. S. Wells, Hebron.	38.00 36.00 36.00 36.00
2763	Stockbridge Vegetable Manure.	E. B. Clark, Woodmont. Bowker Fertilizer Co., 43 Chatham St., E. B. Clark, Milford. L. Browning, New Lond E. B. Clark, Woodmont. T. A. Lewis Willimantiliman	E. B. Clark, Woodmont. E. B. Clark, Milford. L. Browning, New London. E. B. Clark, Woodmont. I. A Lewis Williamship.	37.00 38.00 42.50 40.00

SPECIAL MANURES SAMPLED BY THE STATION-Continued.

Station No.	Name or Brand.	Manufacturer.	Dealer.	Dealers' cash price per ton.
2842	Complete Manure for Corn and Grain.	Complete Manure for Corn and Grain. Bradley Fertilizer Co., 27 Kilby St., J. E. Holmes, Stratford.	J. E. Holmes, Stratford.	\$42.00
		Boston, Mass.	D. N. Clark & Sons, Milford.	39.00
			Carter & Strong, Manchester.	42.00
2764	Potato Manure.	Quinnipiae Co., New London.	B. E. Johnson, Higganum.	34.00
		Ser Land	John Taylor, Old Mystic.	38.00
			J. S. Worthington, Portland.	40.00
			J. F. Silliman, New Canaan.	38.00
			D. C. Wood, Stratford.	38.00
			G. M. Williams, New London.	35.00
			Olds & Whipple, Hartford.	40.00
2816	Potato Manure.	E. Frank Coe, 16 Burling Slip, N. Y.	J. A. Amidon, Wethersfield,	40.00
			N. C. Barker, Lebanon.	36.00
			H. S. Hall, (2d) Wallingford.	40.00
2826	Great Eastern Vegetable, Vine and	Great Bastern Vegetable, Vine and Great Eastern Fertilizer Co., Rut. D. E. Stone, Cheshire.	D. E. Stone, Cheshire.	33.00
	Tobacco Fertilizer.	land, Vt.	L. L. Herman, Noroton.	35.00
			F. Woodford, Farmington.	37.00
	CASAL CAN THE PRINCIPLE STREET, STREET		Andrew Bonfoey, Higganum.	35 00
			W. A. Snow, Columbia.	35.00
2834	Reese's Concentrated Potato and Corn	Reese's Concentrated Potato and Corn J. S. Reese & Co., New Bedford, Mass. W. Tillinghast, Plainfield.	W. Tillinghast, Plainfield.	39.00
	Manure.			
2897	Stockbridge Fruit Manure.	Bowker Fertilizer Co., 43 Chatham St.,	J. A. Paine, Danielsonville.	42.50
		Boston, Mass.	J. A. Lewis, Willimantic.	40.00
2814	Stockbridge Corn Manure.	Bowker Fertilizer Co., 43 Chatham St.,	E. S. Lincoln, Chaplin.	38.00
		Boston, Mass. S. R. Jones, Deep River.	S. R. Jones, Deep River.	40.00
			J. A. Lewis, Willimantic.	40.00
			City Coal and Wood Co., New Britain.	41.00
			W. B. Martin. Rockville.	41.00

SPECIAL MANURES SAMPLED BY THE STATION-Concluded.

Station No.	Name or Brand.	Manufacturer.	Dealer.	Dealers' cash price per ton.
2814	Stockbridge Corn Manure.	Bowker Fertilizer Co., 43 Chatham St., J. A. Paine, Danielsonville. J. M. Williams, Manchester	J. A. Paine, Danielsonville. J. M. Williams, Manchester.	\$42.50
2817	2817 Potato, Hop and Tobacco Phosphate. Crocker Fertilizer Co., Buffalo, N. Y.		W. H. Anderson, Putnam. Dix & Wells, Wethersfield.	35.00
			C. A. Young, Danielsonville. W. Tillingbast, Plainfield.	36.00
			L. L. Herman, Noroton.	35.00
			L. Browning, New London.	37.00
			J. H. Fish, Newington.	38.00
			W. C. Russell, Orange.	35.00
			E. Hill, Moosup.	36.00
2853	General Fertilizer for Grain and Grass.	General Fertilizer for Grain and Grass, Great Eastern Fertilizer Co., Rut. W. A. Snow, Columbia, land, Vt.	W. A. Snow, Columbia.	35.00
2878	Potato Manure.	Davidge Fertilizer Co., 121 Front St., Henry Dackett, Andover. N. Y.	Henry Dackett, Andover.	40.00
2881	Stearns' Potato Grower.	Stearns Fertilizer Co., 181 Front St., R. P. Hubbard, Middletown. N. Y.	R. P. Hubbard, Middletown.	34.00

ANALYSES OF SPECIAL MANURES SAMPLED BY THE STATION.

			N	Nitrogen.	ر				Phosp	Phosphoric /	Acld.			Potash.	ash.		·u	19	fler n lua-
on t		88	88.		-01 .bi	opa,		J.	.9	-pur	.be	Available.	able.		.be	.aujı	oT 1	ou b	twee
Station	Name or Brand.	Witrogen Mitrates	Mitrogen	Vitrogei Organic	Total Vit	Mitrogei Guarante	Soluble	Reverte	Idufosal	Total Fou	Total Guarante	Found.	Guar- anteed,	Found	Guarante	СРІО	Cost be	itaniaV oT	Percentage ence be Cost an tion,
1892	Fairchild's Formula for	, a		100	906	2	1		1	11001	10.01		100	14 67	101	00 6	19 61 9 00 010 00	614 72	*0 [[
9710	Rogers & Hubbard's Soluble	07.	:	10.7	2.00		:	:	:	10.01		:	:	14:0	14.0	0.07	0.00	Ø11.10	11.0
	Potato Manure	1.36	.72	3.24	5.33	0.9	1.08	6.20	3.61	10.89	10.0	7.28	.:	5.33	2.0	.22	37.00	36.91	0.2
2685	Fairchild's Formula for Corn	98					Ē							-					
	and General Cropst	3.40		1.92	5.35	5.5	:			13.30‡		:		12.53	18.01	12.06	42.00	44.67	0.7
2951	Mapes'Seeding Down Manure	.83	.15	2.41	3.39	2.5	: : :			15.248	15.0			11.71	10.0	10.0 11.56	37.50	34.29	9.5
2871	Mapes'FruitandVine Manure	.23	.35	1.42	2.00	1.7	8.77	.49	.14	9.40	:	9.26	7.0	7.0 11.16	10.0	.52	38.00	34.74	9.4
6187	Bradley's Comp. Manure for		-	-	1	1	-		-		4		0				000	00.0	
	Potatoes and Vegetables .	.38	1.39	1 99	3.76	5.7	90.7	2.64	96.	10.66	9.0			6.49	0.9	6.60	38.00	34.28	109
1082	Mapes' Corn Manure	.75	1.06	2.03	3.84	3.7	6.30	3.83	1.97	12.10	-	10.13	10.0		0.9	6.41	41.00	35.79	14.6
8282	Mapes' Tobacco Manure,												100000			April A		The state of the s	Name of the last
	Conn. Brand	.83	1.52	2.23	4.58	4.7	80.9	2.50	1.04	9.65		8.58	7.8	8.46	7.8	.59	45.00	39.19	14.8
2893	Williams & Clark's Americus																		
	High Grade Special for									Note the second									516
1000000	000	.72	1.17	1.60	3.49	5.7	4.32	4.85	1.88	11.05	8.0	9.17	2.0	6.70	2.0	.20	40.00	34.80	14.9
1686	Mapes' Grass and Grain				The second	No.	100	2000		Digital State of the last of t					To Jane		No. of Co.	1	
	Spring Top Dressing	1.54	1.44	1.89	4.87	4.1	5.74	2.80	1.69	10.23	2.0		2.0		2.0	5.51	41.00	35.55	15.3
5804	Baker's Comp. Potato Manure	:	3,43	77.	4.20	8.8	2.98	1.40	.30	1.68		7.38	0.0	86.6	10.0	5.03	45.00	36.11	16.3
2952	Stockbridge Seeding Down																		
	Manure	1.56	.15	1.93	3.64	2.5	7.36	2.25	2.25	11.86	12.0		0.9		3.0	.34	40.00	33.83	
2975	Miller's Corn Fertilizer	:	:	2.04	2.04	1.4	5.15	4.06	1.06	10.27	7.5	9.21	6.5		8.0	.34	32.00	26.74	19.6
2836	Вакег's Comp. Corn Manure	-	3.49	.73	4.22	6.4	5.97	1.26	.18	7.41	:	7.23	6.3	9.17	7.0	7.02	41.00	34.15	20.1
2950	Miller's Special Potato Ma-																		
	nure		3.07	.78	3.85	8.7	3.89	3.08	.92				8.5	7.88	2.0	.37	41.00	33.79	21.3
9770	Monos' Dototo Monuro	3 40	20	1 60	0 01	00	00 6		P 84	10 76	08	66 8	08		60	22	45 OU	25 26	916

\* Valuation exceeds cost. + Mixture of chemicals and ground bone, 93 per cent. of which passes holes ½ inch in diameter. \$ Mixture of chemicals and bone, 30 per cent. of which passes holes ½ inch in diameter. \$ Mixture of chemicals and bone, 30 per cent. of which passes holes ½ inch in diameter.

ANALYSES OF SPECIAL MANURES SAMPLED BY THE STATION—Concluded.

			Z	Nitrogen.					Phos	Phosphoric Acid.	Acid.			Potash.	-32	Sh.			•ще
N u	Name on Dean	88		'u	-01.	.be		.b	.9	·pur	.ba	Available.	of I	ble.			·pa	.ba	.ed.
olisid	Name of Diana.	Mitrogen Mitrates	Mitrogen	Nitroge OingariO	Total Vit	Witroge Guarante	Soluble	Reverte	ldufosal	Total For	Total Guarana	Found.	Guar-	anteed.	Found.		Found.	Found.	Found.
2818	Mapes' Tobacco Manure, Wrapper Brand Crocker's Ammoniated Wheat and Corn Phos	1.17	3.53	1.42	6.12	6.6	1.18	3.05	1.82	6.05	1	4.23	4	10	4.5 11.43	.5 11.43 10.5		10.5 1.06	10.5
	and com	:	.16	2.23	2.38	0.8	7.81	2.14	2.08	12.03		9.95	10.0	0	0 1.95	1.95	1.95	1.95 7.8 1.92	1.95 1.8
2840	Bowker's Tobacco Manure Williams & Clark's Potato		1.60	1.87	3.47	85. 85.	7.13		3.16	12.42	8.0	9.26	7.0				2.08 5.0	5.08 5.0 .48 42	5.08 5.0 .48 42.50
THE PERSON	Manure	.29	::	2.55	2.84	0.8	5.41	2.96	1.12	9.49		8.37	8.0		5.75	5.75 6.0		6.0 3.09	0.9
2821	Bradley's Potato Manure Stockbridge Vegetable Ma-			2.34	2.63	3.5	6.43	2.43	1.50	10.36	8.0	8.86	0.9		5.87		2.0	6.0 5.79	6.0 5.79 36.00
2842	nplete Ma	1.32	.47	1.62	3.41	5.5	6.88	1.83	1.47	10.18	8.0	8.71	7.0		6.73	6.73 5.0		5.0 4.20 40.	5.0 4.20
	for Corn and Grain	£.	1.00	1.98	3.29	8.8	7.47		1.31	11.16	10.0	9.82	8.0	4.5	5.03	5.02 4.5	4.5	4.5 5.27	4.5
2816	Quinnipiac Potato Manure E. Frank Coe's Potato Ma-		1	2.15	3.10	3.5	4.00	3.82	1.24	90.6	2.0	7.82	9.0	10.0	5.40			96. 0.9	6.0 .96 37.00
2826	Great Eastern Vegetable, Vine and Tobacco Fertil-		99.	1.64	2.30	2.0	7.49	1.69	1.40	10.58	8.0	9.18	8.0		5.69	6.69 6.0		6.0 .34 38	6.0 .34
2834	Reese's Concentrated Po-	-	:	2.14	2.14	2.1	7.04	1.92	1.20	10.16	1	8.96	8.0		26 9		26	69.9 0.9 16	0.9 16
_	tato and Corn Manure	.37	1111	2.62	2.99	2.3	3.36	4.73	3.14	11.23	7.0	8.09	0.9		6.95			7.5 7.06	7.5
2814	Stockbridge Fruit Manure Stockbridge Corn and Grain		:	1.79		5.5	7.31	2.46	2.77	12.54	2.0	9.77	0.9		5.38	5.38 4.0	4.0	4.0 .62	4.0 .62 40.00
2817	Manure Crocker's Potato. Hop and	18.	;	2.46	3.27	65 65	6.50	2.66	3.07	12.23	10.0	9.16	8.0		4 17	417 40		4.0 3.06	7.0
		1	1	2.07	2.02	2.0	8.40	1.73	1.29	11.42	8.0	10.13	8.0		4.19	4.19 3.5		3.5 3.70	3.5
_	tilizer for Grass and Grain.		;	2.80	2.80	6.3	90.7	1.69	1.27	10.02		8.75	8.0		2.43	2.43 2.0		2.0 2.86	2.0
2878	Davidge Potato Manure Stearns' Potato Grower	1.1		1.81	2.92	0, 0	6.75	3.16	1.28	11.19	200	9.91	0.6		4.23		4.0	4.0 4.48	4.0 4.48 46,00