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COMMERCIAL FERTILIZERS

REPORT FOR 1940



Connecticut
Agricultural Experiment Station
New Haven

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E. M. BAILEY

Chemist in charge



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Commercial Fertilizers Report for 1940

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LAW AND REGULATIONS CONCERNING FERTILIZERS

THE term "commercial fertilizers" as used in the Connecticut fertilizer statute includes any and every substance imported, manufactured, prepared or sold for fertilizing or manuring or soil amendment purposes, except barnyard manure and stable manure that have not been artificially treated or manipulated, marl and lime.

The law exempts from registration, and from other requirements referred to, only (1) fertilizers passing through the State in transit; (2) fertilizers and fertilizer materials shipped to regular fertilizer factories to be used for manufacturing purposes; and (3) fertilizers and fertilizer chemicals sold to the Connecticut Agricultural Experiment Station for experimental purposes.

The law provides that no claim or guaranty for less than 0.82 percent nitrogen or for less than 1 percent of phosphoric acid or for less than 1 percent of potash shall be regarded in the registration of any commercial fertilizer. Materials containing negligible amounts of these elements of plant food are, therefore, not accepted for registration.

The seller is responsible for the proper labelling of each package of fertilizer, for the registration of each brand sold or offered for sale, for the payment of the required analysis fee and for the payment of the tonnage tax. If, however, proper labelling, registration and payments of analysis fees and of tonnage tax have been provided for by the manufacturer or by another responsible person, all sellers of such brands are released from the above mentioned requirements. The retailer, therefore, should assure himself that the requirements of the law have been met by the manufacturer of the brands which he handles, or himself be prepared to meet all these requirements.

It frequently happens that a manufacturer or jobber sells fertilizer materials which are the products of, and which are registered by, another firm or individual. Distributors in such cases should sell such materials by the exact brand names under which they are registered in order that there may be no mistake as to the identity of brands. Any change in the brand names, or failure to make the identity of the brand and its manufacturer clear,

makes the distributor liable for registration of the product as his own brand.

Cottonseed, linseed and soybean meals, when sold or used for fertilizer purposes, must be registered as fertilizers and the specified fees paid thereon. For such products the registration fee is \$10.00 for each brand, payable annually, and six cents per ton tonnage fee, payable semi-annually.

These fees are entirely apart from those required by the feeding stuffs statute.

Because manufacturers or jobbers often do not know how much, if any, of their brands are sold or used as fertilizers, local dealers report their sales to this Station. The information is used to inform manufacturers of the total sales of their brands as fertilizer in this State. It is expected that the fees will be paid by the manufacturers or other party responsible for the brands.

REGISTRATIONS

Late Registrations for 1939

To the brands registered for 1939 in our last report should be added:

The Sherwin-Williams Co., Cleveland, Ohio
Sherwin-Williams Pure Old Process Linseed Meal 5%

Registrations for 1940

For 1940, 64 firms and individuals registered 344 brands of fertilizers at this Station for sale in this State. As required by statute, the brands so registered are listed as follows:

The Acme Guano Co., Baltimore, Md.

Acme 3-10-4
Acme 3-12-6
Acme 4-8-4
Acme 4-8-5 Vitaflor
Acme 4-8-10
Acme 4-12-4
Acme 5-8-7
Acme 5-8-10
Acme 7-7-7
Acme Raw Bone Meal
Acme Sheep Manure
Acme Sulphate of Ammonia
Acme 16% Superphosphate
Acme 20% Superphosphate

Ted Alkire, Lubbock, Texas
Kireal Cotton Hull Ash

The American Agricultural Chemical Co., North Weymouth, Mass.

AA Double Strength Fertilizer 8-16-14
AA 8-16-16 Fertilizer
AA Market Garden Fertilizer 4-8-4
AA Potato and Root Crop Fertilizer 4-8-10
AA Potato and Vegetable Fertilizer 5-8-7
AA 16% Superphosphate
AA 20% Superphosphate
AA Tobacco Starter 5-5-15
AA Top Dresser 7-7-7
Agrico for Aroostook with 10% Potash 5-8-10
Agrico for Corn 3-10-6
Agrico for Corn 4-12-6
Agrico Country Club Fertilizer 8-6-2

Registrations

Agrico Country Club Fertilizer 8-6-4
Agrico for Fruit 8-8-4
Agrico for Gardens 4-10-4
Agrico for Lawns, Trees and Shrubs 7-7-5
Agrico for New England 4-8-10
Agrico for Potatoes and Vegetables 5-8-7
Agrico for Seeding Down 4-16-20
Agrico for Tobacco 6-3-6
Agrico for Top Dressing 7-7-7
Agrico for Truck 5-10-5
Agrinite (All Organic Turf Food) 8.5
Bradley XL Fertilizer 3-10-4
Castor Pomace
Double A Tobacco Fertilizer 5-3-5
Fine Ground Bone
Muriate of Potash
Pulverized Sheep and Goat Manure
Sanderson's Formula B 4-8-7

American Cyanamid Co., 30 Rockefeller Plaza, New York, N. Y.

'Ammo-Phos' 11-48-0
21% 'Aero' Cyanamid Granular
22% 'Aero' Cyanamid Pulverized

American Potash & Chemical Corp., 70 Pine St., New York, N. Y.

Trona Muriate of Potash

Apothecaries Hall Co., Waterbury, Conn.

Bone Meal 2.25%
Bone Meal 3.70%
Castor Pomace
Cotton Hull Ashes
Dry Ground Fish
Liberty Corn Fertilizer 3-12-6
Liberty Fertilizer 4-16-4
Liberty Fertilizer 10-5-5
Liberty Green Gro 6-5-3
Liberty High Analysis Fertilizer 8-16-14
Liberty High Analysis Potato and General Crops 8-16-20
Liberty High Grade Corn Fertilizer 4-12-4
Liberty High Grade Market Gardeners 5-8-7
Liberty High Grade Tobacco Manure 7-3-7
Liberty High Grade Vegetable Fertilizer 5-10-10
Liberty Manure Supplement 0-20-10
Liberty Market Gardeners Special 4-8-4
Liberty Onion Special (Potash as Sulphate) 4-8-7
Liberty Potato and General Crops 4-8-10
Liberty Special Fertilizer for Fruit and Grass 7-7-7

Liberty Special Fertilizer for Lawns, etc. 4-4-0
Liberty Tobacco Mixture 5-3-5
Liberty Tobacco Mixture 6-3-6
Liberty Tobacco Mixture 6-3-7
Liberty Tobacco Starter 4-10-0
Liberty Tobacco Starter with Potash 5-5-15
Liberty Top Dresser for Grass and Grain 8-8-8
Liberty Tree and Shrub Food 10-8-8
Liberty Truck Garden and Onion Fertilizer 5-10-5
Nitrate of Potash
Precipitated Bone
Sheep Manure
Sulphate of Ammonia
Superphosphate 16%
Superphosphate 20%
Tankage

Archer-Daniels-Midland Co., Minneapolis, Minn.

37% Protein Old Process Linseed Meal
41% Protein Soybean Oil Meal
44% Protein Soybean Oil Meal

Armour Fertilizer Works, 80 Eighth Ave., New York, N. Y.

Armour's Big Crop Fertilizer 3-12-6
Armour's Big Crop Fertilizer 4-8-10
Armour's Big Crop Fertilizer 5-8-7
Armour's Big Crop Fertilizer 5-10-5
Armour's Big Crop Fertilizer 5-10-10
Armour's Big Crop Fertilizer 7-7-7
Armour's Big Crop Fertilizer 8-16-20
Armour's Big Crop Superphosphate 20%
Armour's Big Crop Tobacco Special 5-3-5
Armour's Big Crop Tobacco Special 6-3-6
Armour's Big Crop Tobacco Special 7-3-7
Armour's Big Crop Tobacco Starter 5-5-15
Armour's Fertilizer 8-16-16
Armour's Bone Meal Fertilizer 2.47-23
Armour's Garden and Lawn Fertilizer 4-8-8
Armour's Special Putting Green Mixture 8-5-2

Ashcraft-Wilkinson Co., Atlanta, Ga.

Cow-Eta Brand 41% Protein Prime Quality Cottonseed Meal
41% Gild Edge Brand Old Process Soybean Oil Meal
44% New Process Prime Soy Bean Meal

Associated Seed Growers, Inc., New Haven, Conn.

Clark's 3-10-6 Fertilizer

- Clark's 5-10-5 Fertilizer
Clark's Tip Top Fertilizer 5-8-7
- Atkins & Durbrow, Inc., 165 John St.,
New York, N. Y.**
Henure
Improved Driconure
- The Barrett Co., 40 Rector St.,
New York, N. Y.**
Arcadian The American Nitrate of
Soda
Arcadian Sulphate of Ammonia
Sulphate of Ammonia
- F. A. Bartlett Tree Expert Co.,
60 Canal St., Stamford, Conn.**
Bartlett Green Tree Food 6-7-4
- The Baugh & Sons Co., 25 S. Calvert
St., Baltimore, Md.**
Baughphos, The Ideal 16% Super-
phosphate
Baughphos, The Ideal 20% Super-
phosphate
Baugh's $\frac{3}{4}$ Century Perfection Brand
3-10-6
Baugh's Fish Bone and Potash
Mixture 4-8-4
Baugh's Old Dependable Potato
Grower 4-8-10
Baugh's Peruvian Guano Substitute
5-8-7
Baugh's Pure Steamed Bone Meal
Baugh's Raw Bone Meal, Warranted
Pure
Baugh's Special Top Dresser 7-6-6
Baugh's Truckers Favorite 5-10-5
- The Berkshire Chemical Co., Bridgeport,
Conn.**
Berkshire Castor Pomace
Berkshire Cotton Hull Ash
Berkshire Dry Ground Menhaden Fish
Berkshire Fertilizer 4-8-4
Berkshire Fertilizer 4-8-7
Berkshire Fertilizer 5-8-7
Berkshire Fertilizer 5-10-5
Berkshire Fertilizer 6-3-6
Berkshire Fertilizer 7-7-7
Berkshire Fertilizer Grass Special
6-6-5
Berkshire Fine Ground Bone
Berkshire Golf Green Fertilizer 8-5-2
Berkshire Sheep and Goat Manure
- Central Soya Co., Inc.,
Fort Wayne, Ind.**
Central 41% Soybean Oil Meal
Central Star Brand Soybean Oil Meal
44%

- Chilean Nitrate Sales Corp.,
120 Broadway, New York, N. Y.**
Champion Brand Chilean Nitrate of
Soda
Chilean Nitrate of Soda-Potash
Old Style Chilean Nitrate of Soda
- Consolidated Rendering Co., 178 Atlantic
Ave., Boston, Mass.**
Corenco 3-10-4 Animal Brand
Corenco 3-10-6
Corenco 4-8-4 Corn and Vegetable
Corenco 4-8-7 Market Garden
Corenco 4-8-10 Potato Grower
Corenco 5-5-5 Lawn and Shrub
Corenco 5-5-15 Tobacco Starter
Corenco 5-8-7 General Crop Manure
Corenco 5-8-10 Peerless Potato
Corenco 5-10-5 Super Truck
Corenco 6-3-6 Special Tobacco
Grower
Corenco 7-6-6 Complete Fruit and
Top Dressing
Corenco 8-16-14 Two in One
Corenco Ground Bone
Corenco Raw Bone Fertilizer
Corenco Sheep Manure
Ground Tankage
Muriate of Potash
Sulphate of Ammonia 20.5
Sulphate of Potash
Superphosphate 16%
Superphosphate 20%
- The Davey Tree Expert Co., Kent, Ohio**
Davey Shredded Cattle Manure
Davey Tree Food 12-4-4
- The Davison Chemical Corp.,
Baltimore, Md.**
Davco Granulated Fertilizer 5-8-7
Davco Granulated Fertilizer 6-6-5
Davco Granulated 20% Super-
phosphate
- E. I. du Pont de Nemours & Co., Inc.,
Wilmington, Del.**
"Uramon"
- Eastern States Farmers' Exchange,
Springfield, Mass.**
Eastern States 0-20-20
Eastern States 4-16-20
Eastern States 5-5-15 Tobacco
Eastern States 5-10-5
Eastern States 5-10-10
Eastern States 5-15-5
Eastern States 7-7-7
Eastern States 7-14-21
Eastern States 8-4-8 Tobacco
Eastern States 8-8-8 C & B (Cranberry
and Blueberry)
Eastern States 8-16-8
Eastern States 8-16-16

- Eastern States 8-16-16 LCS (Low
Chlorine Special)
Eastern States 8-16-16 (Water Soluble
Magnesium)
Eastern States 8-24-8
Eastern States 10-5-5
Eastern States 10-10-10
Eastern States Agricultural Urea
Eastern States Calnitro
Eastern States Castor Pomace
Eastern States Cottonhull Ash
Eastern States Dry Ground Fish
Eastern States Ground Steamed Bone
Eastern States Muriate of Potash
Eastern States Nitrate of Potash
Eastern States Precipitated Bone
Eastern States Sulphate of Ammonia
Eastern States Sulphate of Potash
Eastern States Superphosphate 20%
Eastern States Superphosphate 40%
- Thomas W. Emerson Co., 213-215 State
St., Boston, Mass.**
Emseco All Use Fertilizer 7-7-7
- Faesy & Besthoff, Inc., 22 E. 40th St.,
New York, N. Y.**
Bone Meal
- Flower City Charcoal Co.,
Rochester, N. Y.**
Char-Gro 4-16-4
- Ford Motor Co., Dearborn, Mich.**
Ford Ammonium Sulphate
- French Potash Co., Inc., Baltimore, Md.**
Muriate of Potash
Sulphate of Potash
- The Glidden Co., Soya Products Div.,
Chicago, Ill.**
Glidden 4 Hi New Process 44%
Protein Soybean Oil Meal
- Goulard & Olena, Inc., 140 Liberty St.,
New York, N. Y.**
G & O Lawn, Garden and Flower
Fertilizer 5-8-5
G & O Sheep Manure
J. B. Greens Fertilizer 10-4-3
- A. H. Hoffman, Inc., Landisville,
Lancaster County, Pa.**
Hoffman's Bone Meal
Hoffman's Cow Manure
Hoffman's Sheep Manure
- Humphreys-Godwin Co., Memphis, Tenn.**
Bull Brand Prime 43% Protein
Cottonseed Meal
Dixie Brand Prime 41% Protein
Cottonseed Meal
- International Agricultural Corp.,
Woburn, Mass.**
International 4-8-4
International 4-8-10
International 5-8-7
International 6-12-12-2
International 7-6-6
International 16% Superphosphate
- Spencer Kellogg & Sons, Inc.,
Buffalo, N. Y.**
Castor Pomace
Kellogg's 41% Protein Soybean
Oil Meal
- Killen & Hall, Inc., Darien, Conn.**
Killen and Hall Tree Food 8-5-2
- Lake County Oil Mill, Tiptonville, Tenn.**
Prime 41 Per Cent Cottonseed Meal
- L. B. Lovitt & Co., Memphis, Tenn.**
"Lovit Brand" 41% Protein Cotton-
seed Meal
- McArdle Seed Store, Greenwich, Conn.**
McArdle's Special Fertilizer 6-5-3
- Mechling Bros. Chemicals, Div. of Gen-
eral Chemical Co., 12 S. 12th St.,
Philadelphia, Pa.**
Veget-Aid 5-10-4
- Natural Guano Co., Aurora, Ill.**
Sheeps Head Sheep Manure
- No. American Car Corp., Premier Poultry
Manure Div., Chicago, Ill.**
Premier Brand Pulverized Poultry
Manure
Premier Brand Pulverized Sheep
Manure
- Old Deerfield Fertilizer Co., Inc.,
So. Deerfield, Mass.**
Castor Pomace
Cottonhull Ashes
Dry Ground Fish
Fine Ground Bone
Old Deerfield 4-8-7
Old Deerfield 5-3-5
Old Deerfield 5-5-15
Old Deerfield 5-8-7
Old Deerfield 6-3-7
Old Deerfield 7-7-7
- Olds & Whipple, Inc., Hartford, Conn.**
Luxura 5-8-6
O & W 3-10-4 Corn Special Fertilizer
O & W 4-8-4 Market Garden Fertilizer
O & W 4-8-7 Potato and General
Purpose Fertilizer

- & W 5-3-5 Complete Tobacco Fertilizer
- & W 5-3-5 Complete Tobacco Fertilizer with Potash derived from Cottonhull Ashes
- & W 5-5-15 High Grade Tobacco Starter and Potash Compound
- & W 5-8-7 Potato and General Purpose Fertilizer
- & W 5-10-10 Fertilizer
- & W 6-3-6 Blue Label Tobacco Fertilizer
- & W 6-3-6 Blue Label Tobacco Fertilizer Potash derived from Cottonhull Ashes
- & W 6-3-7 Special Tobacco Fertilizer
- & W 7-7-7 Top Dressing and Grass Fertilizer
- & W 8-16-16 Fertilizer
- & W Bone Meal
- & W Castor Pomace
- & W Cotton Hull Ashes
- & W Dry Ground Fish
- & W Nitrate of Potash
- & W Precipitated Bone Phosphate
- & W Sulphate of Ammonia
- & W Superphosphate 16%
- & W Superphosphate 20%

Outpost Nurseries, Inc., Ridgefield, Conn.
Outpost Plant Food 8-5-2

Plantspur Products Co., Ridgefield, N. J.
Plantspur Fertilizer 3-3-2

Frank S. Platt Co., Inc., New Haven, Conn.
Platco 5-8-7 Fertilizer
Platt's 10-5-5 Special Lawn Fertilizer

Potash Co. of America, Baltimore, Md.
Bulk — Muriate of Potash 50%
Bulk — Muriate of Potash 60%

The Pulverized Manure Co., Union Stock Yards, Chicago, Ill.
Wizard Brand Cow Manure
Wizard Brand Pulverized Sheep Manure

The Rogers & Hubbard Co., Portland, Conn.
Gro-Fast Plant Food 5-6-6
Hubbard's All Soils Fertilizer 4-8-4
Hubbard's Castor Pomace
Hubbard's Climax Tobacco Fertilizer 5-3-5
Hubbard's Corn Fertilizer 4-8-7
Hubbard's Corn and Grain Fertilizer 3-10-4
Hubbard's Cotton Hull Ashes
Hubbard's Dry Ground Fish
Hubbard's Fine Ground Bone

Hubbard's Golf Course Fertilizer 8-6-2
Hubbard's High Potash Fertilizer 4-8-10
Hubbard's Potato Fertilizer 5-8-7
Hubbard's Raw Knuckle Bone Flour
Hubbard's Sheep and Goat Manure
Hubbard's Strictly Pure Fine Bone
Hubbard's Superphosphate 16%
Hubbard's Superphosphate 20%
Hubbard's Tobacco Grower 6-3-6
Hubbard's Top Dressing 8-5-8
Hubbard's Vegetable Manure 5-8-10
Red H Brand 4-8-4
Red H Brand 4-8-7
Red H Brand 4-8-10
Red H Brand 5-8-7
Red H Brand 7-6-6
Red H Brand 7-7-7

Ruhm Phosphate and Chemical Co., Mt. Pleasant, Tenn.
Red Seal Brand Ruhm's Phosphate Rock (washed and ground)

O. M. Scott & Sons Co., Marysville, Ohio
Scott's Turf Builder 10-6-4

Sewerage Commission of the City of Milwaukee, Milwaukee, Wis.
Milorganite

M. L. Shoemaker & Co., Philadelphia, Pa.
M. L. Shoemaker's "SWIFT-SURE" 4-10-0 Tobacco Starter

A. E. Staley Manufacturing Co., Decatur, Ill.
Staley's SOY-AL-KING

Standard Wholesale Phosphate & Acid Works, Inc., Baltimore, Md.
Standard 5-8-7
Standard 5-8-10

Stumpp & Walter Co., New York, N. Y.
Sawco Bone 2.47-24.00%
Sawco Emerald Grass Fertilizer 5-7-3
Sawco General Garden Fertilizer 5-10-5
Sawco Pulverized Sheep Manure 2-1-2

Summers Fertilizer Co., Inc., Baltimore, Md.
Summers "Best on Earth" Brand 3-10-6
Summers "Best on Earth" Brand 4-8-4
Summers "Best on Earth" Brand 4-8-10
Summers "Best on Earth" Brand 5-8-7
Summers "Best on Earth" Brand Goat Manure
Summers "Best on Earth" 16% Superphosphate

Summers "Best on Earth" Superphosphate 20%
Summers "Best on Earth" 40% Superphosphate
Summers "Best on Earth" Tankage 7% — Processed

Swift & Co., Fertilizer Works, Baltimore, Md.

Bone Meal Fertilizer
Roselawn 5-8-7
Swift's Sheep Manure 1.85-1-1.75
Swift's Special Golf Fertilizer 6-12-4
Swift's Special Golf Fertilizer 12-6-4
Vigoro 4-12-4

Synthetic Nitrogen Products Corp., 285 Madison Ave., New York, N. Y.
Calcium Nitrate (Nitrate of Lime)
Nitrophoska 15-30-15

Tennessee Corp., Lockland, Ohio
Loma (5-10-4)
Soil-Prep (4-2-2)

I. P. Thomas & Son Co., 721 Market St., Camden, N. J.
I. P. Thomas 3-10-6
I. P. Thomas 5-8-7

Walker-Gordon Laboratory Co., Inc. Plainsboro, N. J.

Bovung

Thomas Wood & Sons, Inc., 12-14 Midland Ave., Montclair, N. J.

Woodgro Pure Cow Manure Dehydrated

F. H. Woodruff & Sons, Inc., Milford, Conn.

Gro-Sod Lawn Food 10-6-4

Woodruff Fertilizer Works, Inc., Orange, Conn.

Woodruff's Big Crop Fertilizer 5-8-7
Woodruff's Corn Fertilizer 4-16-4
Woodruff's 3-10-6 Fertilizer
Woodruff's 8-16-16 Fertilizer
Woodruff's Superphosphate 16%
Woodruff's Superphosphate 20%
Woodruff's Top Dresser 7-6-6
Woodruff's Yankee Special Fertilizer 5-10-5

INSPECTION OF 1940

The Station Agent collected 364 official samples of fertilizers including all of the registered brands that could be found. The classification of these and other samples examined is given in the following summary.

As the result of a conference called by Mr. A. F. Kingsbury, Chairman of District No. 1 of the National Fertilizer Association, representatives of Connecticut fertilizer manufacturers and state fertilizer control officials, it was agreed that the Station may include, in annual reports on fertilizer inspection, information on fertilizer tonnage sold in the State, provided that such information is given by grades or other classifications, and in such manner as not to disclose tonnage of individual manufacturers.

Accordingly the summary here given includes data on fertilizer tonnage for the period July 1, 1939 to June 30, 1940. The data are based on tonnage returns received up to October 1 of this year and for statistical purposes they may be regarded as complete.

It should be understood that the data represent fertilizer tonnage that is subject to the provisions of the fertilizer law of this State. They do not include fertilizer materials distributed under the Government's Agricultural Conservation Program.

CLASSIFICATION OF FERTILIZER MATERIALS
AND FERTILIZER TONNAGE

| | Page No. | Samples No. of | Tonnage | |
|--|----------|----------------|---------|---------------|
| I. Containing Chiefly Nitrogen | | | | |
| Nitrate of soda | 14 | 4 | 1,284 | |
| Ammonium sulfate | 19 | 6 | 333 | |
| Castor pomace | 20 | 15 | 2,886 | |
| Cottonseed meal | 14 | 116 | 8,431 | |
| Linseed meal | 14 | 10 | 568 | |
| Soybean oil meal | 14 | 13 | 2,468 | |
| Calcium nitrate, calnitro, cyan- amid, urea, agrinite | 14 | 10 | 501 | 16,471 |
| II. Containing Chiefly Phosphoric Acid | | | | |
| Superphosphate | 15 | 28 | 5,682 | |
| Precipitated bone | 15 | 5 | 259 | 5,941 |
| III. Containing Chiefly Potash | | | | |
| Muriate of potash | 15 | 6 } | 819 | |
| Sulphate of potash | 15 | 4 } | | |
| Cottonhull ashes | 15 | 43 | 1,894 | 2,713 |
| IV. Containing Nitrogen and Potash | | | | |
| Nitrate of potash | 16 | 11 } | 480 | |
| Nitrate of soda-potash ..... | .... | 1 } | | 480 |
| V. Containing Nitrogen and Phosphoric Acid | | | | |
| Dry ground fish | 16 | 31 | 1,150 | |
| Tankage, etc. | 16 | 6 | 159 | |
| Ground bone | 16 | 34 | 1,315 | 2,624 |
| VI. Mixed Fertilizer | | | | |
| Commercial mixtures | 17 | 225 | 29,648* | |
| Special mixtures | 17 | 52 | 2,815 | 32,463 |
| VII. Miscellaneous | | | | |
| Sheep manure, etc. | 18 | 20 | 673 | |
| Lime | 18 | 45 | ..... |  |
| Other miscellaneous | 18 | 42 | ..... |  |
| Check meals and fertilizers | 18 | 42 | ..... | 673 |
| Total | | 770 | | 61,365 |

*For more detailed statement of this tonnage see next page.

MIXED FERTILIZER TONNAGE

| Grade | Tonnage | Brands | Grade | Tonnage | Brands | |
|----------|---------|--------|---------------|---------|--------|--|
| 5-8-7 | 8801 | 20 | 6-2-0 | 605 | 5 | |
| 6-3-6 | 3281 | 8 | 4-12-6 | | | |
| 4-8-4 | 1928 | 15 | 10-10-10 | | | |
| 8-16-16 | 1212 | 7 | 8-16-8 | | | |
| 5-3-5 | 1110 | 7 | 0-20-20 | | | |
| 7-7-7 | 1254 | 10 | | | | |
| 4-8-10 | 1095 | 11 | 7-14-21 | 367 | 5 | |
| 5-10-10 | 1031 | 5 | 12-6-4 | | | |
| 3-10-6 | 569 | 8 | 5-5-5 | | | |
| 7-6-6 | 454 | 6 | 6-7-4 | | | |
| 4-8-7 | 660 | 9 | 6-8-6 | | | |
| 5-8-10 | 398 | 5 | | | | |
| 5-10-5 | 665 | 12 | 5-6-6 | 165 | 5 | |
| 3-10-4 | 341 | 5 | 6-12-4 | | | |
| 5-5-15 | 335 | 7 | 4-4-0 | | | |
| | | | 10-3-3 | | | |
| 6-3-7 | 1366 | 7 | 0-20-10 | | | |
| 4-12-4 | | | | | | |
| | | | 6-6-5 | 165 | 5 | |
| 4-10-0 | 716 | 7 | 6-12-12 | | | |
| 7-3-7 | | | | | | |
| 3-12-6 | | | | | | |
| 8-16-14 | 367 | 8 | 8-8-4 | 59 | | |
| 4-16-20 | | | | | | |
| 10-5-5 | | | | | | |
| 10-6-4 | 224 | 10 | 10-4-3 | | | |
| 4-16-4 | | | | | | |
| 8-6-2 | | | | | | |
| 8-5-2 | 166 | 8 | 4-8-8 | 81 | | |
| 6-5-3 | | | | | | |
| 5-8-5 | | | | | | |
| 8-16-20 | 65 | 6 | 3-3-2 | 25 | | |
| 5-10-4 | | | | | | |
| 12-16-12 | | | | | | |
| 15-30-15 | | | | | | |
| 8-4-8 | 1897 | 5 | 4-2-2 | | | |
| 8-24-8 | | | | | | |
| 8-8-8 | | | | | | |
| 5-15-5 | | | | | | |
| 8-5-8 | | | | | | |
| | | | Miscellaneous | 246 | | |
| | | | Total | 29,648 | | |

I. RAW MATERIALS CHIEFLY VALUABLE FOR NITROGEN

Nitrate of Soda, etc.

Analyses of official samples of this group, including cyanamid and urea which are classed as organics, are given in Table 1.

Sample 6885, calcium nitrate, was somewhat deficient in nitrogen. Calnitro is a trade name for an imported product containing 20.5 percent of nitrogen, about one-half of which is in nitrate form and one-half as ammonia.

The urea samples showed contamination with some foreign material, one being substantially below guaranty, the other slightly low. Suitable adjustment with purchasers was made by the distributors.

All other samples fully satisfied guaranties. Samples drawn and submitted by purchasers are not included in the tabulated results.

Vegetable Products

Analyses of official samples of vegetable meals are given in Table 2. Unofficial samples are not included.

Vegetable meals, particularly cottonseed and linseed meals, have long been used in this region in tobacco fertilizer formulas. More recently soybean meal has come into use; and a sample of peanut meal was submitted during the year by a tobacco grower. All of these meals are the ground press cakes or residues obtained after the oils have been removed from the seeds by pressure or by the use of solvents. As fertilizers they are chiefly valuable for nitrogen but they contain some quantity of other fertilizer constituents. Analyses are given in the summary below. Figures given in parenthesis are taken from Morrison's compilation (Feeds and Feeding) and represent averages of many samples. Other figures are our own and represent a few samples, sometimes only one.

ANALYSES OF VEGETABLE MEALS

| | Cottonseed meal % | Linseed meal % | Soybean meal % | Peanut meal % |
|-------------------------------------|----------------------|-------------------|-------------------|------------------|
| Moisture | 6.8 (7.2) | (8.7) | 7.2 (8.3) | 6.5 (6.6) |
| Total nitrogen | 6.7 (6.4) | 5.5 (5.6) | 6.9 (7.1) | 7.8 (6.8) |
| P ₂ O ₅ | 2.6 (2.9) | (2.0) | 1.6 (1.5) | 1.4 (1.3) |
| K ₂ O | 2.0 (1.8) | (1.5) | 2.5 (2.6) | 1.2 (1.4) |
| CaO | 0.3 (0.3) | 0.6 (0.5) | 0.5 (0.4) | 0.4 (0.2) |
| MgO | 1.1 | 0.9 | 0.5 | 0.7 |

The quality of the nitrogen in the several meals is indicated by the comparison which follows. The figures given are results of one

analysis in each case so that the data furnish no adequate basis for final judgment. Figures for castor pomace are included.

Activity values are by the alkaline permanganate method by which procedure the insoluble organic nitrogen is rated as of good quality if over 50 percent of it is active.

ACTIVITY OF NITROGEN IN VEGETABLE MEALS

| | Cottonseed meal ¹ % | Linseed meal ² % | Soybean meal % | Peanut meal % | Castor pomace ¹ % |
|--|-----------------------------------|--------------------------------|-------------------|------------------|---------------------------------|
| Total nitrogen | 7.02 | 5.80 | 8.22 | 7.79 | 5.28 |
| Water-soluble nitrogen | 0.63 | 1.74 | 4.91 | 0.32 | 0.88 |
| Insoluble organic nitrogen | 6.39 | 4.06 | 3.31 | 7.47 | 4.40 |
| Active insoluble organic nitrogen | 4.09 | 2.17 | 1.80 | 5.30 | 2.55 |
| Inactive insoluble organic nitrogen | 2.30 | 1.89 | 1.51 | 2.17 | 1.85 |
| Activity of insoluble organic nitrogen.... | 64 | 53 | 54 | 71 | 58 |

¹Cited from JOUR. IND. ENG. CHEM., 4, 440, (1912).

²Conn. Agr. Exp. Sta., Report on Fertilizers, p. 98, (1930).

II. RAW MATERIALS CHIEFLY VALUABLE FOR PHOSPHORIC ACID

Superphosphate is an essential raw material in the fertilizer industry. It was formerly called "acid phosphate" and contained about 16 percent of phosphoric acid. In recent years, by improved methods of manufacture, it commonly contains 20 to 40 percent.

Precipitated bone is another important source of phosphoric acid and is a by-product in the manufacture of glue-stock from bone.

Analyses of official samples of these materials are given in Table 3.

All samples substantially met or exceeded guaranties except in two cases.

III. RAW MATERIALS CHIEFLY VALUABLE FOR POTASH

Analyses of official samples of potash salts and cottonhull ashes are given in Table 4. All guaranties were safely met. Because of their variability in composition, cottonhull ashes are generally sold on a unit basis.

The Old Deerfield Fertilizer Co. of South Deerfield, Mass., registered cottonhull ashes 35 percent K₂O. No official samples were secured but four samples were submitted by purchasers. They ranged from 34.7 to 35.90 percent K₂O on analysis.

IV. RAW MATERIALS SUPPLYING NITROGEN AND POTASH

Only three official samples of this group of raw materials were analyzed. They are summarized in the following tabulation.

| No. | Manufacturer or Jobber | Stock of | Nitrogen | | Potash | |
|------|--|---|----------|------------|--------|------------|
| | | | Found | Guaranteed | Found | Guaranteed |
| | | | % | % | % | % |
| 5572 | Apothecaries Hall Co., Waterbury | Hatheway & Steane, West Suffield | 12.48 | 12.00 | 43.18 | 43.00 |
| 6911 | Eastern States Farmers' Exchange, Springfield, Mass. | Henry Johnson, East Hartford | 12.56 | 13.00 | 43.68 | 44.00 |
| 6707 | Olds & Whipple, Inc., Hartford | E. J. Bantle, Glastonbury | 13.08 | 13.00 | 44.26 | 44.00 |

V. RAW MATERIALS SUPPLYING NITROGEN AND PHOSPHORIC ACID

Analyses of official samples of dry ground fish, tankage and ground bone are given in Tables 5, 6 and 7.

One sample of fish, 6842, was substantially below guaranty in nitrogen and 7139 was slightly low. Eight samples were analyzed for purchasers of fish from this source; seven of them ranged from 9.16 to 10.06 percent nitrogen, one tested 8.54 percent.

The Old Deerfield Fertilizer Co. of South Deerfield, Mass., registered dry ground fish 9.46 - 5.0. No official samples were taken but three samples analyzed for purchasers contained 9.75 to 9.88 percent nitrogen and 6.55 to 6.77 percent of phosphoric acid.

Tankage sample 6624 is a "process tankage". The product designated as "tankage", without qualification, is the usual bone and meat tankage and supplies both nitrogen and phosphoric acid. Process tankages are made from crude, inert nitrogenous materials by pressure cooking or steaming, with or without the use of acids, to increase the activity of the nitrogen. They furnish nitrogen only.

Phosphoric acid guaranties for the bone products were safely met in all samples but two were deficient in nitrogen.

VI. MIXED FERTILIZERS

Analyses of 209 official samples of mixed fertilizers are given in Table 8, page 28. The results may be summarized as follows:

| | |
|--|------------------|
| Total number of samples | 209 |
| One item | 55 |
| Two items | 7 |
| Three items | 0 |
| Percentage of samples meeting guaranties in all respects | 70 |
| Total guaranties made | 622 ¹ |
| Guaranties not met: | |
| Nitrogen | 35 |
| Phosphoric acid | 11 |
| Potash | 23 |
| Percentage of guaranties met | 89 |

¹Five samples with only two guaranties each.

Balancing overruns against shortages, three samples, representing two brands, showed commercial deficiencies in excess of \$1.00 per ton. These were 7066, Acme 5-8-10, \$1.18 and Acme 7-7-7, average of two analyses, \$3.18. Both samples of the latter brand were out of balance for the grade designated.

Activity values for the insoluble organic nitrogen were all above the accepted limits (50 percent by the alkaline, and 80 percent by the neutral, permanganate methods) and indicated no inferior sources of organic nitrogen.

The acid- or base-forming character of the various brands analyzed has been judged by the method adopted by the Association of Official Agricultural Chemists. To overcome acid-forming residual effects of fertilizer mixtures, dolomitic limestone, which is preferable to calcitic limestone for the purpose, may be used. Samples examined in the last three years show that mixtures are preponderantly acid-forming, but this is not necessarily prejudicial to such mixtures because of the general practice of applying liming materials to the soil periodically. On the basis of about 200 samples of mixed fertilizers examined each year for the past three years, the proportions of samples that are non-acid-forming or neutral are 37 percent (1938), 45 percent (1939) and 42 percent (1940).

A summary of chemical deficiencies is given in Table 8(a), p. 42. They are substantially less than last year. Deficiencies of 0.1 percent or less in nitrogen and 0.2 percent or less in available phosphoric acid and potash are not included.

Home Mixtures and Special Mixtures

Analyses of home mixed fertilizers and special mixtures are given in Table 9, p. 43.

State Purchases of Fertilizers

Mixed fertilizers and raw materials sold on purchase orders from the State have been included in our inspection for the past few years. Samples representing such purchases are included in the several tables and identified by footnotes. They appear as follows:

| Samples | Material | Reference |
|---------|-------------------|----------------|
| 2 | Nitrate of soda | Table 1, p. 19 |
| 4 | Superphosphate | " 3, p. 21 |
| 2 | Muriate of potash | " 4, p. 23 |
| 1 | Process tankage | " 6, p. 25 |
| 1 | Ground bone | " 7, p. 26 |
| 18 | Mixed Fertilizers | " 8, p. 28 |

All of the samples of raw materials fully met or exceeded guaranties.

Of the 18 samples of mixed goods, guaranties were substantially met or exceeded in 15 samples. Balancing overruns against shortages, there were no significant commercial deficiencies in the other three.

Mixed fertilizers and raw materials sold on state purchase orders are subject to registration and tonnage tax, the only exemption being for such goods as are sold to the Experiment Station for experimental purposes.

VII. MISCELLANEOUS

Analyses of sheep manure and similar commercial manures are given in Table 10.

Liming materials are not required to be registered in this State, but they are included in our inspection. Analyses are given in Table 11.

Among other miscellaneous materials examined during the year those given in Table 12 are recorded for reference.

Forty-two samples of cottonseed meal and fertilizers have been analyzed in connection with the collaborative programs of the American Oil Chemists Society and of the F. S. Royster Guano Co. These programs are participated in by State, commercial and industrial chemists and the comparative results are of interest.

TABLE 1. ANALYSES OF NITRATE OF SODA, ETC.

| Station No. | Manufacturer or Jobber | Sampled from stock of | Percent nitrogen | |
|-------------------------------------|---|--|--------------------|------------|
| | | | Found | Guara feed |
| Nitrate of Soda | | | | |
| 6425 ¹ | Arcadian. The American. The Barrett Co., New York, N. Y. | West Cheshire, Cheshire Reformatory | 16.10 | 16.00 |
| 6648 ¹ | Arcadian, The American. The Barrett Co., New York, N. Y. | Newtown: Fairfield State Hospital | 16.14 | 16.00 |
| 6509 | Champion Brand Chilean. Chilean Nitrate Sales Corp., New York, N. Y. | Milford: Associated Seed Growers, Inc. | 16.00 | 16.00 |
| Calnitro and Calcium Nitrate | | | | |
| 6699 | Eastern States Calnitro. Eastern States Farmers' Exch., Springfield, Mass. . | East Hartford: Eastern States Branch | 20.54 | 20.50 |
| 6885 | Calcium nitrate. Synthetic Nitrogen Products Corp., New York, N. Y. | New Canaan: S. Scalandu | 14.56 ² | 15.00 |
| Cyanamid | | | | |
| 6518 | 21% 'Aero' Granular. American Cyanamid Co., New York, N. Y. | Orange: Woodruff Fertilizer Works, Inc. | 21.08 | 21.00 |
| 6649 | 22% 'Aero' Pulverized. American Cyanamid Co., New York, N. Y. | Bethel: Eastern States Farmers' Exchange .. | 22.84 | 22.00 |
| Urea | | | | |
| 6909 | Eastern States Agricultural. Eastern States Farmers' Exchange, Springfield, Mass. | East Hartford: Henry Johnson | 41.80 ³ | 42.00 |
| 7219 | Eastern States Agricultural. Eastern States Farmers' Exchange, Springfield, Mass. | East Hartford: Eastern States Branch | 40.75 ⁴ | 42.00 |
| Uramon | | | | |
| 6672 | E. I. duPont de Nemours & Co., Inc., Wilmington, Del. | Poquonock: John Cranouski | 42.10 | 42.00 |
| Sulphate of Ammonia | | | | |
| 7210 | Apothecaries Hall Co., Waterbury, Conn. | East Windsor: Apothecaries Hall Co. | 20.80 | 20.50 |
| 6592 | The Barrett Co., New York, N. Y. | East Hartford: Warehouse | 20.64 | 20.56 |
| 6498 | Consolidated Rendering Co., Boston, Mass. | New Haven: L. T. Frisbie Co. | 20.86 | 20.50 |
| 6750 | Eastern States. Eastern States Farmers' Exchange, Springfield, Mass. | Willimantic: Eastern States Branch | 20.90 | 20.50 |
| 6903 | Ford. Ford Motor Co., Dearborn, Mich. | Middletown: The Longworth-Carlson Co. .. | 20.84 | 20.80 |
| 6825 | O & W. Olds & Whipple, Inc., Hartford, Conn. | East Hartford: Olds & Whipple, Inc. | 20.78 | 20.56 |
| Agrinite | | | | |
| 6507 | Agrinite (All Organic Turf Food) 8.5 American Agricultural Chemical Co., No. Weymouth, Mass. | American Agricultural Chemical Co., West Haven | 8.68 | 8.50 |

¹State Purchase ²Moisture 5.51% ³Moisture 1.44%; ash 6.79% ⁴Moisture 1.48%; ash 8.48%

TABLE 2. ANALYSES OF CASTOR POMACE, COTTONSEED MEAL, ETC.

| Station No. | Manufacturer or Jobber | Sampled from stock of | Percent nitrogen | |
|------------------------|--|--|------------------|------------|
| | | | Found | Guaranteed |
| | | | % | % |
| Castor Pomace | | | | |
| 6503 | American Agricultural Chemical Co., No. Weymouth, Mass. | American Agricultural Chemical Co., West Haven | 4.66 | 4.50 |
| 6673 | Apothecaries Hall Co., Waterbury, Conn. | John Cranouski, Poquonock | 4.69 | 4.50 |
| 6910 | Apothecaries Hall Co., Waterbury, Conn. | Henry Johnson, East Hartford | 5.31 | 4.50 |
| 6904 | Berkshire Chemical Co., Bridgeport, Conn. | John Cranouski, Poquonock | 6.15 | 4.50 |
| 7095 | Eastern States Farmer's Exchange, Springfield, Mass. | Eastern States Branch, East Hartford | 5.92 | 5.00 |
| 6671 | Old Deerfield Fertilizer Co., Inc., So. Deerfield, Mass. | John Cranouski, Poquonock | 6.07 | 4.50 |
| 6670 | O & W. Olds & Whipple, Inc., Hartford, Conn. | John Cranouski, Poquonock | 5.32 | 4.50 |
| 6816 | Hubbard's. The Rogers & Hubbard Co., Portland, Conn. | The Rogers & Hubbard Co., Portland | 5.94 | 4.50 |
| Cottonseed Meal | | | | |
| 6667 | Ashcraft-Wilkinson Co., Atlanta, Ga. | Out-Post Nurseries, Ridgefield | 6.56 | 6.56 |
| 6706 | Dixie. Humphreys-Godwin Co., Memphis, Tenn. | E. J. Bantle, Glaston- bury | 6.61 | 6.56 |
| 6695 | "Lovit 41%". L. B. Lovitt & Co., Memphis, Tenn. | Bloomfield Farmers' Exchange, Bloomfield | 6.92 | 6.56 |
| Linseed Meal | | | | |
| 6839 | 37%. Archer-Daniels-Midland Co., Minneapolis, Minn. | Apothecaries Hall Co. East Windsor | 5.80 | 6.00 |
| Soybean Meal | | | | |
| 6705 | Central Star. Central Soya Co., Inc., Fort Wayne, Ind. | E. J. Bantle, Glaston- bury | 7.70 | 7.04 |
| 7097 | Staley's Soy-Al-King. A. E. Staley Mfg. Co., Decatur, Ill. | Harry Leibman, Ellington | 7.10 | 6.56 |

TABLE 3. ANALYSES OF SUPERPHOSPHATE, ETC.

| Station No. | Manufacturer or Wholesale Dealer | Dealer or Purchaser | Phosphoric acid | | | |
|-----------------------|---|---|-----------------|-------|-------------|------------|
| | | | Citrate soluble | Total | "Available" | |
| | | | | | Found | Guaranteed |
| % | % | % | % | % | % | |
| Superphosphate | | | | | | |
| 7067 | Acme 16%. The Acme Guano Co., Baltimore, Md. | W. B. Welden, Simsbury | 0.60 | 17.00 | 16.40 | 16.00 |
| 6430 | Acme 20%. The Acme Guano Co., Baltimore, Md. | Andrew Christensen, Wilson | 0.95 | 22.52 | 21.57 | 20.00 |
| 6505 | AA 16%. American Agricultural Chemical Co., No. Weymouth, Mass. | American Agricultural Chemical Co., West Haven | 0.55 | 17.37 | 16.82 | 16.00 |
| 6502 | AA 20%. American Agricultural Chemical Co., No. Weymouth, Mass. | West Haven | 0.83 | 21.95 | 21.12 | 20.00 |
| 6626 | Liberty 16%. Apothecaries Hall Co., Waterbury, Conn. | West Haven | 0.30 | 16.88 | 16.58 | 16.00 |
| 6423 | 20%. Apothecaries Hall Co., Waterbury, Conn. | Apothecaries Hall Co., East Windsor | 0.81 | 21.36 | 20.55 | 20.00 |
| 6589 | Armour's Big Crop. 20%. Armour Fertilizer Works, New York, N. Y. | Apothecaries Hall Co., East Windsor | 0.93 | 20.82 | 19.89 | 20.00 |
| 6521 | Baughphos. The Ideal 20%. The Baugh & Sons Co., Baltimore, Md. | Warehouse, East Hartford | 0.21 | 20.82 | 20.61 | 20.00 |
| 6497 | 16%. Consolidated Rendering Co., Boston, Mass. | Hamden Lehigh Coal Co., Hamden | 0.46 | 16.62 | 16.16 | 16.00 |
| 6492 | 20%. Consolidated Rendering Co., Boston, Mass. | L. T. Frisbie Co., New Haven | 0.41 | 21.43 | 21.02 | 20.00 |
| 6651 | Davco Granulated 20%. Davison Chemical Corp., Baltimore, Md. | Cheshire Reformatory, W. Cheshire | 0.86 | 22.80 | 21.94 | 20.00 |
| 6701 | Eastern States 20%. Eastern States Farmers Exchange, Springfield, Mass. | Berkshire Chemical Co., Bridgeport | 0.75 | 21.41 | 20.66 | 20.00 |
| 7228 | Eastern States 40%. Eastern States Farmers Exchange, Springfield, Mass. | Eastern States Branch, Bethel | 1.82 | 39.16 | 37.34 | 40.00 |
| | Eastern States 40%. Eastern States Farmers Exchange, Springfield, Mass. | Eastern States Branch, East Hartford | 1.96 | 41.96 | 40.00 | 40.00 |

(Continued)

TABLE 3. ANALYSES OF SUPERPHOSPHATE, ETC.—Concluded

| Station No. | Manufacturer or Wholesale Dealer | Dealer or Purchaser | Phosphoric acid | | | |
|--------------------------|--|-------------------------------------|-----------------|-------|-------|------------|
| | | | Citrate soluble | Total | Found | Guaranteed |
| 6922 | International 16% Agricultural Corp., Woburn, Mass. | Irving Foote, Norwich | 0.59 | 17.52 | 16.93 | 16.00 |
| 6824 | O & W 16% Olds & Whipple, Inc., Hartford, Conn. | Olds & Whipple, Inc., East Hartford | 0.40 | 19.54 | 19.14 | 16.00 |
| 6891 ¹ | O & W 16% Olds & Whipple, Inc., Hartford, Conn. | Long Lane Farm, Middletown | 0.59 | 17.60 | 17.01 | 16.00 |
| 6631 ¹ | O & W 20% Olds & Whipple, Inc., Hartford, Conn. | Fairfield State Hospital, Newtown | 0.74 | 21.59 | 20.85 | 20.00 |
| 6844 | Hubbard's 16% The Rogers & Hubbard Co., Portland | The Rogers & Hubbard Co., Portland | 0.16 | 17.60 | 17.44 | 16.00 |
| 6746 | Hubbard's 20% The Rogers & Hubbard Co., Portland | Willimantic Grain Co., Willimantic | 0.03 | 20.86 | 20.83 | 20.00 |
| 6563 | Summers "Best on Earth" 16% Summers Fertilizer Co., Inc., Baltimore, Md. | Laden Bros. Co., Inc., Wallingford | 0.91 | 17.74 | 16.83 | 16.00 |
| 6892 ¹ | Summers "Best on Earth" 20% Summers Fertilizer Co., Inc., Baltimore, Md. | State Hospital, Middletown | 0.26 | 20.98 | 20.72 | 20.00 |
| 6558 | Woodruff's 16% Woodruff Fertilizer Works, Inc., Orange, Conn. | J. P. Beach, North Haven | 0.39 | 17.69 | 17.30 | 16.00 |
| 6561 | Woodruff's 20% Woodruff Fertilizer Works, Inc., Orange, Conn. | J. P. Beach, North Haven | 0.98 | 22.34 | 21.36 | 20.00 |
| Precipitated Bone | | | | | | |
| 6841 | Apothecaries Hall Co., Waterbury, Conn. | Apothecaries Hall Co., East Windsor | 1.32 | 40.64 | 39.32 | 38.00 |
| 6908 | Eastern States Eastern States Farmers Exchange, Springfield, Mass. | Henry Johnson, East Hartford | 3.67 | 41.76 | 38.09 | 38.00 |
| 6913 | O & W. Olds & Whipple, Inc., Hartford, Conn. | Olds & Whipple, Inc., East Hartford | 1.18 | 38.62 | 37.44 | 38.00 |

¹State Purchase

TABLE 4. ANALYSES OF POTASH SALTS, ETC.

| Station No. | Manufacturer and Brand | Sampled from stock of | Potash | |
|-------------------------------------|---|---|--------|--------------------|
| | | | Found | Guaranteed |
| Muriate of Potash | | | | |
| 6506 | American Agricultural Chemical Co., No. Weymouth, Mass. | American Agricultural Co., West Haven | 51.05 | 50.00 |
| 6858 | Trona. American Potash & Chemical Corp., New York, N. Y. | The Rogers & Hubbard Co., Portland | 60.90 | 60.00 |
| 6426 ¹ | Consolidated Rendering Co., Boston, Mass. | Cheshire Reformatory, West Cheshire | 50.04 | 50.00 |
| 6634 ¹ | Consolidated Rendering Co., Boston, Mass. | Fairfield State Hospital, Newtown | 50.28 | 50.00 |
| 6650 | Eastern States Farmers' Exchange, Springfield, Mass. | Eastern States Branch, Bethel | 61.28 | 60.00 |
| 6593 | Bulk Potash Company of America, Baltimore, Md. | Warehouse, East Hartford | 49.48 | 50.00 |
| Sulphate of Potash | | | | |
| 6499 | Consolidated Rendering Co., Boston, Mass. | L. T. Frisbie Co., New Haven | 48.94 | 48.00 |
| 6821 | French Potash Co., Inc., Baltimore, Md. | Olds & Whipple, Inc., East Hartford | 50.34 | 48.00 |
| Cottonhull Ashes² | | | | |
| 6837 | Kireal. Ted Alkire, Lubbock, Texas | Eastern States Farmers' Exchange, East Hartford | 40.84 | 30.00 |
| 6630 | Apothecaries Hall Co., Waterbury, Conn. | Apothecaries Hall Co., East Windsor | 30.04 | ³ |
| 6554 | Berkshire Chemical Co., Bridgeport, Conn. | John Cranouski, Poquonock | 30.68 | 30.00 |
| 6857 | Eastern States Eastern States Farmers' Exchange, Springfield, Mass. | Eastern States Branch, East Hartford | 40.64 | 38.00 |
| 6708 | Olds & Whipple, Inc., Hartford, Conn. | E. J. Bantle, Glastonbury | 29.31 | ³ |
| 6822 | Olds & Whipple, Inc., Hartford, Conn. | Olds & Whipple, Inc., East Hartford | 30.68 | ³ |

¹State Purchase

²Old Deerfield Fertilizer Co., unofficial samples, see text, p. 15.

³Sold on unit basis

TABLE 5. ANALYSES OF DRY GROUND FISH, ETC.

| Station No. | Manufacturer or Wholesale Dealer | Sampled from stock of | Nitrogen | | Phosphoric acid | |
|-------------|---|--|-------------------|------------------|-----------------|------------------|
| | | | Total found | Total guaranteed | Total found | Total guaranteed |
| | | | % | % | % | % |
| 6842 | Apothecaries Hall Co., Waterbury, Conn. | Apothecaries Hall Co., East Windsor | 8.00 ¹ | 9.00 | 11.79 | 5.00 |
| 7139 | Apothecaries Hall Co., Waterbury, Conn. | Apothecaries Hall Co., East Windsor | 8.84 | 9.00 | 9.60 | 5.00 |
| 6907 | Eastern States Eastern States Farmers' Exchange, Springfield, Mass. | Eastern States Farmers' Branch, East Hartford | 10.03 | 9.00 | 6.62 | 5.00 |
| 6863 | Menhaden. Berkshire Chemical Co., Bridgeport, Conn.... | Berkshire Chemical Co., Bridgeport.... | 9.50 | 9.46 | 6.59 | 5.00 |
| 6912 | O & W. Olds & Whipple, Inc., Hartford, Conn. | Olds & Whipple, Inc., East Hartford.. | 9.69 | 9.46 | 6.15 | 5.00 |
| 6845 | Hubbard's. The Rogers & Hubbard Co., Portland, Conn. | The Rogers & Hubbard Co., Portland | 9.66 | 9.46 | 7.40 | 5.00 |

¹Eight purchasers' samples ranged from 8.54 to 10.06 percent nitrogen. See text, p. 16.

TABLE 6. ANALYSES OF TANKAGE AND SIMILAR MATERIALS

| Station No. | Manufacturer and Wholesale Dealer | Sampled from stock of | Nitrogen | | Phosphoric acid | | Mechanical analysis | | Station No. |
|-------------------|--|--|-------------|------------------|-------------------|------------------|--------------------------|----------------------------|-------------|
| | | | Total found | Total guaranteed | Total found | Total guaranteed | Finer than 1-50" inch | Coarser than 1-50" inch | |
| | | | % | % | % | % | % | % | |
| 6629 | Apothecaries Hall Co., Waterbury, Conn. | Apothecaries Hall Co., East Windsor | 9.60 | 8.22 | 8.92 | 3.00 | 37.2 | 62.8 | 6629 |
| 6428 | Ground. Consolidated Rendering Co., Boston, Mass. | Rand & Christianson, Wilson | 9.04 | 7.40 | 9.75 | 9.15 | 36.5 | 63.5 | 6428 |
| 7278 | Ground. Consolidated Rendering Co., Boston, Mass. | Rand & Christianson, Wilson | 8.36 | 7.40 | 9.84 | 9.15 | 53.5 | 46.5 | 7278 |
| 6491 | Milorganite. Sewerage Commission of the City of Milwaukee, Milwaukee, Wis. | L. H. Gault & Son., Saugatuck | 6.06 | 6.00 | 3.25 ¹ | 2.75 | ..... | ..... | 6491 |
| 6624 ² | Summers "Best on Earth" 7%— Processed. Summers Fertilizer Co., Inc., Baltimore, Md. | Osborn Farm, Somers | 7.01 | 7.00 | ..... | ..... | ..... | ..... | 6624 |

¹"Available" found 2.66%; guaranteed 2.00%

²State Purchase

TABLE 7. ANALYSES OF GROUND BONE

| Station No. | Manufacturer and Brand | Sampled from stock of | Nitrogen | | Phosphoric acid | | Mechanical analysis | | Station No. |
|-------------------|---|--|-------------|------------------|-----------------|------------------|----------------------|------------------------|-------------|
| | | | Total found | Total guaranteed | Total found | Total guaranteed | Finer than 1-50 inch | Coarser than 1-50 inch | |
| | | | % | % | % | % | % | % | |
| 6696 | Acme Raw. The Acme Guano Co., Baltimore, Md. | Carpenter & Chapman, Bloomfield | 3.60 | 3.70 | 23.18 | 20.00 | 44.5 | 55.5 | 6696 |
| 6460 ¹ | Fine Ground. American Agricultural Chemical Co., No. Weymouth, Mass. | Libner Grain Co., Norwalk | 2.65 | 2.47 | 26.56 | 23.00 | 60.2 | 39.8 | 6460 |
| 6627 | Apothecaries Hall Co., Waterbury, Conn. | Apothecaries Hall Co., East Windsor | 2.61 | 2.25 | 24.92 | 22.00 | 56.7 | 43.3 | 6627 |
| 6452 | Apothecaries Hall Co., Waterbury, Conn. | McArdle Seed Store, Greenwich | 3.88 | 3.70 | 21.73 | 20.00 | 42.6 | 57.4 | 6452 |
| 6525 | Baugh's Pure Steamed. The Baugh & Sons Co., Baltimore, Md. | Hamden Lehigh Coal Co., Hamden | 3.00 | 2.47 | 25.97 | 23.00 | 42.6 | 57.4 | 6525 |
| 6557 | Baugh's Raw, Warranted Pure. The Baugh & Sons Co., Baltimore, Md. | Hamden Lehigh Coal Co., Hamden | 3.98 | 3.70 | 21.72 | 20.50 | 43.4 | 56.6 | 6557 |
| 6448 | Berkshire Fine Ground. Berkshire Chemical Co., Bridgeport, Conn. | Belmont Feed Co., Cos Cob | 2.32 | 2.05 | 29.28 | 25.00 | 59.6 | 40.4 | 6448 |
| 6424 ² | Corenco Ground. Consolidated Rendering Co., Boston, Mass. | Cheshire Reformatory, West Cheshire | 2.92 | 2.47 | 24.28 | 23.00 | 36.0 | 64.0 | 6424 |
| 6496 | Corenco Raw. Consolidated Rendering Co., Boston, Mass. | Frank S. Platt Co., New Haven | 4.00 | 3.70 | 23.08 | 20.00 | 34.8 | 65.2 | 6496 |
| 6752 | Eastern States Ground Steam. Eastern States Farmers' Exchange, Springfield, Mass. | Eastern States Branch, Willimantic | 2.30 | 2.30 | 30.10 | 23.00 | 68.8 | 31.2 | 6752 |
| 6435 | Faesy & Besthoff, Inc., New York, N. Y. | Silliman Hardware Co., New Canaan | 2.38 | 2.25 | 29.32 | 27.00 | 60.6 | 39.4 | 6435 |
| 6668 | Hoffman's. A. H. Hoffman, Inc., Landisville, Lancaster County, Pa. | Heyman's Hardware Co., Danbury | 3.82 | 3.70 | 20.28 | 20.00 | 34.3 | 65.7 | 6668 |
| 6915 | Fine Ground. Old Deerfield Fertilizer Co., So. Deerfield, Mass. | Rockville Grain & Coal Co., Rockville | 2.18 | 2.47 | 27.83 | 22.00 | 75.5 | 24.5 | 6915 |
| 6694 | O & W. Olds & Whipple, Inc., Hartford, Conn. | Bloomfield Farmers' Exchange, Bloomfield | 2.54 | 2.47 | 28.90 | 22.00 | 66.6 | 33.4 | 6694 |
| 6747 | Hubbard's Fine Ground. The Rogers & Hubbard Co., Portland, Conn. | Willimantic Grain Co., Willimantic | 2.26 | 2.47 | 29.62 | 23.00 | 70.5 | 29.5 | 6747 |
| 6860 | Hubbard's Raw Knuckle Bone Flour. The Rogers & Hubbard Co., Portland, Conn. | The Rogers & Hubbard Co., Portland | 4.24 | 3.70 | 24.39 | 24.70 | 83.0 | 17.0 | 6860 |
| 6743 | Hubbard's Strictly Pure Fine. The Rogers & Hubbard Co., Portland, Conn. | Willimantic Grain Co., Willimantic | 3.89 | 3.70 | 22.24 | 20.00 | 48.4 | 51.6 | 6743 |
| 6440 | Sawco. Stumpp & Walter Co., New York, N. Y. | Stumpp & Walter Co., Stamford | 2.85 | 2.47 | 26.19 | 24.00 | 60.6 | 39.4 | 6440 |
| 6658 | Swift & Co., Baltimore, Md. | H. E. Meeker, Danbury | 2.74 | 2.47 | 26.70 | 23.00 | 53.8 | 46.2 | 6658 |

¹Contained 2.56% chlorine²State Purchase

TABLE 8. ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and Brand | Place of Sampling | Acid-forming (A) Non-acid-forming (NA) or near neutral (N) |
|--|---|---------------------|--|
| | | | |
| The Acme Guano Co. Baltimore, Md. | | | |
| 6893 | Acme 3-10-4 | Middletown | A |
| 6917 | Acme 3-12-6 | Bloomfield | A |
| 6619 | Acme 4-8-4 | Thompsonville | A |
| 6698 | Acme Vitaflor 4-8-5 | Bloomfield | N |
| 7118 | Acme Vitaflor 4-8-5 | Bloomfield | N |
| 6770 | Acme 4-8-10 | Norwich | A |
| 6429 | Acme 5-8-7 | Wilson | A |
| 6771 | Acme 5-8-7 | Norwich | A |
| 7277 | Acme 5-8-7 | Wilson | A |
| 7066 | Acme 5-8-10 | Simsbury | A |
| 6697 | Acme 7-7-7 | Bloomfield | A |
| 6954 | Acme 7-7-7 | Norwich | A |
| American Agricultural Chemical Co., No. Weymouth, Mass. | | | |
| 6815 | AA Double Strength Fertilizer 8-16-14 | West Haven | A |
| 6709 | AA Market Garden Fertilizer 4-8-4 | Manchester | A |
| 6712 | AA Potato and Root Crop Fertilizer 4-8-10 | Manchester | A |
| 6458 | AA Potato and Vegetable Fertilizer 5-8-7 | Norwalk | A |
| 7113 | AA Tobacco Starter 5-5-15 | West Haven | NA |
| 6459 | AA Top Dresser 7-7-7 | Norwalk | A |
| 6742 | Agrico for Aroostook with 10% Potash 5-8-10.... | Manchester | A |
| 6817 | Agrico for Corn 3-10-6 | West Haven | A |
| 6774 | Agrico for Corn 4-12-6 | Groton | A |
| 6816 | Agrico Country Club Fertilizer 8-6-2 | West Haven | A |
| 6808 | Agrico Country Club Fertilizer 8-6-4 | Guilford | A |
| 7208 | Agrico Country Club Fertilizer 8-6-4 | West Haven | A |
| 6711 | Agrico for Fruit 8-8-4 | Manchester | A |
| 6500 | Agrico for Gardeners 4-10-4 | West Haven | N |
| 6501 | Agrico for Lawns, Trees and Shrubs 7-7-5 | West Haven | A |
| 6741 | Agrico for New England 4-8-10 | Manchester | A |
| 6620 | Agrico for Potatoes and Vegetables 5-8-7 | Thompsonville | A |
| 6710 | Agrico for Seeding Down 4-16-20 | Manchester | A |
| 6888 | Agrico for Tobacco 6-3-6 | West Haven | NA |
| 6504 | Agrico for Top Dressing 7-7-7 | West Haven | A |
| 6889 | Agrico for Top Dressing 7-7-7 | West Haven | A |
| 6438 | Agrico for Truck 5-10-5 | New Canaan | A |
| 6457 | Bradley X.L. Fertilizer 3-10-4 | Norwalk | A |
| 6887 | Double A Tobacco Fertilizer 5-3-5 | West Haven | N |
| 6886 | Sanderson's Formula B 4-8-7 | West Haven | NA |
| American Cyanamid Co., New York, N. Y. | | | |
| 6517 | 'Ammono-Phos', 11-48-0 | Orange | |

| Station No. | Nitrogen | | | | | Phosphoric Acid | | | Potash | | Station No. |
|-------------|-------------|------------|-----------------------|-------------------------|-------|-------------------|-------|-----------------------|------------|-------|-------------|
| | In nitrates | In ammonia | Organic water-soluble | Organic water-insoluble | Total | Citrate-insoluble | Total | So-called "Available" | As muriate | Total | |
| | % | % | % | % | % | % | % | % | % | % | |
| | 0.00 | 2.06 | 0.69 | 0.27 | 3.02 | 0.62 | 10.79 | 10.17 | 3.39 | 4.26 | 6893 |
| | 0.00 | 0.28 | 2.49 | 0.29 | 3.06 | 0.72 | 12.73 | 12.01 | 6.98 | 6.98 | 6917 |
| | 0.00 | 2.12 | 1.73 | 0.24 | 4.09 | 0.68 | 9.10 | 8.42 | 2.71 | 4.26 | 6619 |
| | 0.00 | 0.28 | 1.48 | 3.54 | 5.30 | 3.16 | 8.98 | 5.82 | 7.79 | 7.79 | 6698 |
| | 0.00 | 0.40 | 1.30 | 3.57 | 5.27 | 3.29 | 9.42 | 6.13 | 6.08 | 6.08 | 7118 |
| | 0.00 | 3.12 | 0.54 | 0.29 | 3.95 | 0.45 | 8.86 | 8.41 | 9.73 | 9.73 | 6770 |
| | 0.65 | 3.16 | 1.00 | 0.30 | 5.11 | 0.42 | 8.42 | 8.00 | 3.81 | 6.12 | 6429 |
| | 0.69 | 3.26 | 0.76 | 0.26 | 4.97 | 0.33 | 8.36 | 8.03 | 4.17 | 6.33 | 6771 |
| | 0.07 | 2.00 | 2.00 | 0.55 | 4.62 | 0.48 | 8.91 | 8.43 | 4.59 | 6.99 | 7277 |
| | 0.19 | 3.28 | 0.78 | 0.25 | 4.50 | 0.44 | 9.20 | 8.76 | 9.05 | 9.45 | 7066 |
| | 0.83 | 3.12 | 1.04 | 0.27 | 5.26 | 0.27 | 8.55 | 8.28 | 3.84 | 5.82 | 6697 |
| | 1.10 | 3.44 | 0.88 | 0.34 | 5.76 | 0.50 | 8.39 | 7.89 | 8.67 | 8.67 | 6954 |
| | 0.00 | 7.72 | 0.26 | 0.13 | 8.11 | 0.55 | 15.42 | 14.87 | 14.47 | 14.47 | 6815 |
| | 0.62 | 2.80 | 0.20 | 0.35 | 3.97 | 0.76 | 9.01 | 8.25 | 4.29 | 4.29 | 6709 |
| | 0.66 | 3.06 | 0.18 | 0.18 | 4.08 | 0.76 | 8.86 | 8.10 | 10.06 | 10.06 | 6712 |
| | 0.51 | 3.76 | 0.22 | 0.35 | 4.84 | 0.89 | 9.77 | 8.88 | 6.95 | 6.95 | 6458 |
| | 2.71 | 0.00 | 0.32 | 1.87 | 4.90 | 0.33 | 5.77 | 5.44 | 0.68 | 15.41 | 7113 |
| | 0.44 | 5.88 | 0.16 | 0.35 | 6.83 | 0.39 | 7.55 | 7.16 | 6.96 | 6.96 | 6459 |
| | 0.62 | 3.78 | 0.26 | 0.38 | 5.04 | 0.81 | 9.27 | 8.46 | 10.01 | 10.01 | 6742 |
| | 0.00 | 2.38 | 0.12 | 0.30 | 2.80 | 0.96 | 10.90 | 9.94 | 5.85 | 5.85 | 6817 |
| | 0.62 | 2.90 | 0.14 | 0.34 | 4.00 | 1.18 | 13.25 | 12.07 | 6.10 | 6.10 | 6774 |
| | 0.78 | 3.60 | 0.76 | 2.92 | 8.06 | 0.30 | 6.40 | 6.10 | 2.48 | 2.48 | 6816 |
| | 0.59 | 6.48 | 0.00 | 0.63 | 7.70 | 0.39 | 6.90 | 6.51 | 4.00 | 4.00 | 6808 |
| | 0.52 | 6.48 | 0.10 | 0.72 | 7.82 | 0.44 | 7.05 | 6.61 | 4.19 | 4.19 | 7208 |
| | 1.28 | 6.00 | 0.64 | 0.07 | 7.99 | 0.58 | 8.39 | 7.81 | 1.01 | 4.15 | 6711 |
| | 0.00 | 2.92 | 0.22 | 0.94 | 4.08 | 0.80 | 11.75 | 10.95 | 4.01 | 4.01 | 6500 |
| | 0.69 | 4.68 | 0.32 | 1.40 | 7.09 | 0.76 | 8.10 | 7.34 | 5.16 | 5.16 | 6501 |
| | 0.64 | 3.08 | 0.26 | 0.18 | 4.16 | 0.82 | 9.25 | 8.43 | 10.08 | 10.08 | 6741 |
| | 0.69 | 3.72 | 0.16 | 0.39 | 4.96 | 0.47 | 8.41 | 7.94 | 7.21 | 7.21 | 6620 |
| | 0.73 | 3.00 | 0.22 | 0.05 | 4.00 | 0.48 | 16.43 | 15.95 | 20.26 | 20.26 | 6710 |
| | 0.64 | 0.16 | 1.60 | 3.60 | 6.00 | 0.44 | 3.56 | 3.12 | 0.54 | 6.07 | 6888 |
| | 0.65 | 5.80 | 0.08 | 0.35 | 6.88 | 0.47 | 7.55 | 7.08 | 6.92 | 6.92 | 6504 |
| | 0.53 | 5.96 | 0.20 | 0.15 | 6.84 | 0.69 | 7.95 | 7.26 | 7.17 | 7.17 | 6889 |
| | 0.58 | 3.82 | 0.30 | 0.39 | 5.09 | 0.75 | 11.08 | 10.33 | 5.33 | 5.33 | 6438 |
| | 0.40 | 2.16 | 0.23 | 0.29 | 3.08 | 0.76 | 11.11 | 10.35 | 4.72 | 4.72 | 6457 |
| | 0.57 | 0.68 | 1.40 | 2.53 | 5.18 | 0.41 | 5.20 | 4.79 | 1.09 | 5.68 | 6887 |
| | 1.84 | 0.64 | 0.20 | 1.42 | 4.10 | 0.40 | 8.81 | 8.41 | 1.14 | 7.76 | 6886 |
| | 0.00 | 8.76 | 1.68 | 0.50 | 10.94 | 0.80 | 51.38 | 50.58 | ..... | ..... | 6517 |

TABLE 8. ANALYSES OF MIXED FERTILIZERS—Continued

| Station No. | Manufacturer and Brand | Place of Sampling | Acid-forming (A) Non-acid-forming (NA) or near neutral (N) | Analyses | | | | | | | | | | | | |
|--|--|-------------------|--|-------------|------------|-----------------------|-------------------------|-------|-------------------|-------|-----------------------|------------|-------|-------------|--|--|
| | | | | In nitrates | In ammonia | Organic water-soluble | Organic water-insoluble | Total | Citrate-insoluble | Total | So-called "Available" | As muriate | Total | Station No. | | |
| | | | | % | % | % | % | % | % | % | % | % | % | % | | |
| The Baugh & Sons Co., Baltimore, Md. | | | | | | | | | | | | | | | | |
| 6526 | Baugh's 3/4 Century Perfection 3-10-6 | Hamden | N | 0.16 | 2.20 | 0.46 | 0. | 3.00 | 0.86 | 11.39 | 10.53 | 6.03 | 6.03 | 6526 | | |
| 6524 | Baugh's Fish Bone and Potash Mixture 4-8-4 | Hamden | N | 0.24 | 2.94 | 0.68 | 0.24 | 4.10 | 0.66 | 9.05 | 8.40 | 4.40 | 4.40 | 6524 | | |
| 6522 | Baugh's Old Dependable Potato Grower 4-8-10 | Hamden | N | 0.36 | 2.72 | 0.60 | 0.20 | 3.88 | 0.63 | 9.00 | 8.37 | 10.66 | 10.66 | 6522 | | |
| 6900 | Baugh's Old Dependable Potato Grower 4-8-10 | Hamden | N | 0.49 | 2.70 | 0.56 | 0.19 | 3.94 | 0.45 | 8.50 | 8.05 | 10.21 | 10.21 | 6900 | | |
| 6520 | Baugh's Peruvian Guano Substitute 5-8-7 | Hamden | N | 0.22 | 3.48 | 0.58 | 0.72 | 5.00 | 0.76 | 8.97 | 8.21 | 7.89 | 7.89 | 6520 | | |
| 6519 | Baugh's Special Top Dresser 7-6-6 | Hamden | A | 3.53 | 2.60 | 0.48 | 0.53 | 7.14 | 0.55 | 7.02 | 6.47 | 6.57 | 6.57 | 6519 | | |
| 6523 | Baugh's Truckers Favorite 5-10-5 | Hamden | A | 0.75 | 3.66 | 0.58 | 0.13 | 4.82 | 1.01 | 11.56 | 10.55 | 4.61 | 4.61 | 6523 | | |
| 6901 | Baugh's Truckers Favorite 5-10-5 | Hamden | A | 0.27 | 3.52 | 0.68 | 0.19 | 4.66 | 1.03 | 11.16 | 10.13 | 4.91 | 4.91 | 6901 | | |
| Berkshire Chemical Co., Bridgeport, Conn. | | | | | | | | | | | | | | | | |
| 6884 | Berkshire Fertilizer 4-8-4 | New Canaan | A | 0.00 | 4.20 | 0.45 | 0.34 | 4.99 | 1.16 | 9.24 | 8.08 | 5.77 | 5.77 | 6884 | | |
| 6864 | Berkshire Fertilizer 4-8-7 | Bridgeport | A | 0.00 | 3.05 | 0.81 | 0.23 | 4.10 | 0.22 | 8.77 | 8.55 | 7.22 | 7.22 | 6864 | | |
| 6807 | Berkshire Fertilizer 5-8-7 | Guilford | A | 0.00 | 3.72 | 1.02 | 0.18 | 4.92 | 0.40 | 8.42 | 8.02 | 7.20 | 7.20 | 6807 | | |
| 6664 | Berkshire Fertilizer 5-10-5 | Greenwich | NA | 0.61 | 1.85 | 1.12 | 1.27 | 4.85 | 0.55 | 10.55 | 10.00 | 6.74 | 6.74 | 6664 | | |
| 6665 | Berkshire Fertilizer 5-10-5 | Greenwich | NA | 0.61 | 2.04 | 0.72 | 1.31 | 4.68 | 0.45 | 10.46 | 10.01 | 6.63 | 6.63 | 6665 | | |
| 7259 | Berkshire Fertilizer 5-10-5 | Greenwich | NA | 0.61 | 2.00 | 1.14 | 1.41 | 5.16 | 0.56 | 10.84 | 10.28 | 6.62 | 6.62 | 7259 | | |
| 7260 | Berkshire Fertilizer 5-10-5 | Greenwich | NA | 0.52 | 2.12 | 1.40 | 1.41 | 5.45 | 0.49 | 11.24 | 10.75 | 6.38 | 6.38 | 7260 | | |
| 7116 | Berkshire Fertilizer 6-3-6 | Greenwich | N | 0.55 | 0.08 | 1.30 | 3.61 | 5.54 | 0.33 | 3.61 | 3.28 | 0.56 | 5.83 | 7116 | | |
| 7110 | Berkshire Fertilizer 7-7-7 | Bridgeport | NA | 0.15 | 5.84 | 1.08 | 0.21 | 7.28 | 0.25 | 7.86 | 7.61 | 4.62 | 7.31 | 7110 | | |
| 6449 | Berkshire Fertilizer Grass Special 6-6-5 | Guilford | A | 0.00 | 4.82 | 0.93 | 0.22 | 5.97 | 0.22 | 6.81 | 6.59 | 4.81 | 5.40 | 6449 | | |
| 6433 | Berkshire Fertilizer Golf Green Fertilizer 8-5-2 | Cos Cob | N | 0.18 | 2.24 | 1.92 | 3.97 | 8.31 | 0.57 | 6.91 | 6.34 | 1.74 | 2.62 | 6433 | | |
| Consolidated Rendering Co., Boston, Mass. | | | | | | | | | | | | | | | | |
| 6814 | Corenco 3-10-4 Animal Brand | New Haven | N | 0.84 | 0.98 | 1.14 | 0.08 | 3.04 | 0.54 | 10.82 | 10.28 | 4.05 | 4.05 | 6814 | | |
| 6613 | Corenco 3-10-6 | Somers | A | 0.30 | 2.18 | 0.50 | 0.05 | 3.03 | 0.30 | 10.61 | 10.31 | 6.19 | 6.19 | 6613 | | |
| 6775 | Corenco 3-10-6 | Niantic | A | 0.15 | 2.38 | 0.48 | 0.08 | 3.09 | 0.16 | 10.61 | 10.45 | 6.05 | 6.05 | 6775 | | |
| 6809 | Corenco 4-8-4 Corn and Vegetable | New Haven | N | 1.01 | 2.08 | 0.84 | 0.12 | 4.05 | 0.56 | 8.66 | 8.10 | 3.97 | 3.97 | 6809 | | |
| 6655 | Corenco 4-8-7 Market Garden | Bethel | N | 0.96 | 1.92 | 1.06 | 0.08 | 4.02 | 0.13 | 8.26 | 8.13 | 6.71 | 6.71 | 6655 | | |
| 6773 | Corenco 4-8-7 Market Garden | Norwich | N | 0.23 | 3.36 | 0.62 | 0.09 | 4.30 | 0.15 | 8.46 | 8.31 | 6.87 | 6.87 | 6773 | | |
| 6656 | Corenco 4-8-10 Potato Grower | Bethel | N | 0.94 | 2.24 | 0.72 | 0.16 | 4.06 | 0.34 | 8.31 | 7.97 | 10.11 | 10.11 | 6656 | | |
| 6867 | Corenco 4-8-10 Potato Grower | West Cheshire | N | 0.93 | 2.22 | 0.74 | 0.12 | 4.01 | 0.32 | 8.48 | 8.16 | 10.10 | 10.10 | 6867 | | |
| 6813 | Corenco 5-5-5 Lawn and Shrub | New Haven | A | 0.85 | 1.20 | 0.86 | 1.79 | 4.70 | 0.36 | 6.34 | 5.98 | 5.73 | 5.73 | 6813 | | |
| 7218 | Corenco 5-5-5 Lawn and Shrub | New Haven | A | 0.94 | 1.40 | 0.75 | 1.86 | 4.95 | 0.34 | 6.59 | 6.25 | 5.61 | 6.16 | 7218 | | |
| 7063 | Corenco 5-5-15 Tobacco Starter | New Haven | NA | 1.56 | 0.00 | 1.28 | 2.40 | 5.24 | 0.21 | 5.82 | 5.61 | 2.39 | 16.91 | 7063 | | |
| 6059 | Corenco 5-8-7 General Crop Manure | Portland | A | 0.50 | 3.86 | 0.70 | 0.07 | 5.13 | 0.30 | 8.65 | 8.35 | 7.07 | 7.07 | 6059 | | |
| 6803 | Corenco 5-8-7 General Crop Manure | Wilson | A | 0.85 | 2.88 | 1.12 | 0.11 | 4.96 | 0.35 | 8.80 | 8.45 | 6.59 | 6.59 | 6803 | | |
| 6804 | Corenco 5-8-7 General Crop Manure | Somers | A | 0.47 | 3.78 | 0.82 | 0.07 | 5.14 | 0.27 | 8.66 | 8.39 | 6.88 | 6.88 | 6804 | | |
| 6635 | Corenco 5-8-7 General Crop Manure | Newtown | A | 0.50 | 3.96 | 0.56 | 0.10 | 5.12 | 0.26 | 8.61 | 8.35 | 6.98 | 6.98 | 6635 | | |
| 6810 | Corenco 5-8-10 Peerless Potato | Newtown | A | 0.86 | 3.24 | 0.80 | 0.20 | 5.10 | 0.77 | 8.59 | 7.82 | 10.00 | 10.00 | 6810 | | |
| 6868 | Corenco 5-8-10 Peerless Potato | Newtown | A | 0.41 | 3.90 | 0.78 | 0.07 | 5.16 | 0.16 | 8.53 | 8.37 | 10.03 | 10.03 | 6868 | | |
| 6632 | Corenco 5-10-5 Super Truck | West Cheshire | A | 0.67 | 3.68 | 0.76 | 0.07 | 5.18 | 0.27 | 10.76 | 10.49 | 5.19 | 5.19 | 6632 | | |

TABLE 8. ANALYSES OF MIXED FERTILIZERS—Continued

| Station No. | Manufacturer and Brand | Place of Sampling | Acid-forming (A) Non-acid-forming (NA) or near neutral (N) |
|---|---|-----------------------|--|
| 7152 ¹ | Corenco 5-10-5 Super Truck | Niantic | A |
| 7064 | Corenco 6-3-6 Special Tobacco Grower | New Haven | NA |
| 6058 ¹ | Corenco 7-6-6 Complete Fruit and Top Dressing | Portland | A |
| 6427 ¹ | Corenco 7-6-6 Complete Fruit and Top Dressing | West Cheshire | A |
| 6633 ¹ | Corenco 7-6-6 Complete Fruit and Top Dressing | Newtown | A |
| 7115 ¹ | Corenco 8-16-14 Two-in-One | Somers | A |
| 6805 ¹ | Corenco 8-16-14 Two-in-One | Niantic | A |
| The Davey Tree Expert Co., Kent, Ohio | | | |
| 6446 | Davey Tree Food 12-4-4 | Old Greenwich | A |
| 7117 | Davey Tree Food 12-4-4 | Old Greenwich | A |
| The Davison Chemical Corp., Baltimore, Md. | | | |
| 6862 | Davco Granulated Fertilizer 5-8-7 | Bridgeport | A |
| 6493 | Davco Granulated Fertilizer 6-6-5 | Bridgeport | NA |
| Eastern States Farmers' Exchange, Springfield, Mass. | | | |
| 6700 | Eastern States 0-20-20 | East Hartford | NA |
| 7140 | Eastern States 0-20-20 | East Hartford | NA |
| 6702 | Eastern States 4-16-20 | East Hartford | N |
| 7114 | Eastern States 5-5-15 Tobacco | Portland | NA |
| 6652 | Eastern States 5-10-5 | Bethel | A |
| 6704 | Eastern States 5-10-10 | East Hartford | A |
| 6703 | Eastern States 5-15-5 | East Hartford | A |
| 6654 | Eastern States 7-7-7 | Bethel | A |
| 6772 | Eastern States 7-14-21 | Norwich | A |
| 7096 | Eastern States 8-4-8 Tobacco | East Hartford | NA |
| 6820 | Eastern States 8-16-8 | Torrington | A |
| 6766 | Eastern States 8-16-16 | Willimantic | A |
| 7209 | Eastern States 8-16-16 | North Haven | A |
| 6920 | Eastern States 8-16-16 LCS (Low Chlorine Special) | So. Glastonbury | A |
| 6653 | Eastern States 8-24-8 | Bethel | A |
| 6826 | Eastern States 10-5-5 | East Hartford | A |
| 6751 | Eastern States 10-10-10 | Willimantic | A |
| Goulard & Olena, Inc., New York, N. Y. | | | |
| 6585 | G & O Lawn-Garden and Flower Fertilizer 5-8-5 | New Britain | N |
| 6584 | J. B. Greens Fertilizer 10-4-3 | New Britain | A |

¹State purchase.

| In nitrates | Nitrogen | | | | Phosphoric Acid | | | Potash | | Station No. |
|-------------|------------|-----------------------|-------------------------|-------|-------------------|-------|-----------------------|------------|-------|-------------|
| | In ammonia | Organic water-soluble | Organic water-insoluble | Total | Citrate-insoluble | Total | So-called "Available" | As muriate | Total | |
| % | % | % | % | % | % | % | % | % | % | |
| 0.44 | 3.76 | 0.76 | 0.06 | 5.02 | 0.30 | 10.90 | 10.60 | 5.15 | 5.15 | 7152 |
| 0.95 | 0.08 | 2.16 | 2.81 | 6.00 | 0.30 | 4.50 | 4.20 | 0.86 | 7.83 | 7064 |
| 0.51 | 5.36 | 0.92 | 0.07 | 6.86 | 0.17 | 6.64 | 6.47 | ..... | 6.07 | 6058 |
| 0.85 | 5.28 | 0.72 | 0.09 | 6.94 | 0.30 | 6.76 | 6.46 | 6.12 | 6.12 | 6427 |
| 0.90 | 5.04 | 0.84 | 0.16 | 6.94 | 0.46 | 6.50 | 6.04 | 5.99 | 5.99 | 6633 |
| 0.85 | 5.76 | 1.00 | 0.14 | 7.75 | 0.57 | 16.73 | 16.16 | 14.71 | 14.71 | 7115 |
| 0.91 | 5.80 | 0.96 | 0.13 | 7.80 | 0.64 | 16.70 | 16.06 | 14.04 | 14.04 | 6805 |
| 1.41 | 9.48 | 0.00 | 0.93 | 11.82 | 0.26 | 4.40 | 4.14 | 4.03 | 4.44 | 6446 |
| 1.24 | 9.20 | 0.10 | 1.04 | 11.58 | 0.16 | 5.18 | 5.02 | 3.12 | 4.25 | 7117 |
| 0.11 | 4.56 | 0.16 | 0.07 | 4.90 | 0.30 | 8.31 | 8.01 | 7.12 | 7.12 | 6862 |
| 0.00 | 5.52 | 0.33 | 0.07 | 5.92 | 0.33 | 6.34 | 6.01 | 4.87 | 4.87 | 6493 |
| ..... | ..... | ..... | ..... | ..... | 0.42 | 19.84 | 19.42 | 21.58 | 21.58 | 6700 |
| ..... | ..... | ..... | ..... | ..... | 0.38 | 20.59 | 20.21 | 19.94 | 20.50 | 7140 |
| 1.13 | 3.04 | 0.00 | 0.25 | 4.42 | 0.54 | 19.59 | 19.05 | 17.72 | 17.72 | 6702 |
| 2.61 | 0.08 | 0.56 | 2.63 | 5.88 | 0.12 | 4.97 | 4.85 | 1.05 | 15.90 | 7114 |
| 1.28 | 3.76 | 0.28 | 0.29 | 5.61 | 0.63 | 11.39 | 10.76 | 5.53 | 5.53 | 6652 |
| 1.36 | 3.82 | 0.12 | 0.20 | 5.50 | 0.56 | 10.76 | 10.20 | 10.76 | 10.76 | 6704 |
| 0.00 | 3.54 | 1.49 | 0.24 | 5.27 | 1.30 | 16.15 | 14.85 | 5.60 | 5.60 | 6703 |
| 1.67 | 5.00 | 0.30 | 0.35 | 7.32 | 0.37 | 8.35 | 7.98 | 7.67 | 7.67 | 6654 |
| 1.63 | 4.62 | 0.46 | 0.43 | 7.14 | 0.25 | 13.96 | 13.71 | 22.26 | 22.26 | 6772 |
| 1.10 | 0.28 | 3.72 | 3.18 | 8.28 | 0.32 | 4.99 | 4.67 | 0.72 | 8.37 | 7096 |
| 1.85 | 5.84 | 0.18 | 0.27 | 8.14 | 0.55 | 16.01 | 15.46 | 9.26 | 9.26 | 6820 |
| 2.26 | 6.00 | 0.00 | 0.20 | 8.46 | 0.19 | 15.28 | 15.09 | 17.33 | 17.33 | 6766 |
| 2.10 | 5.72 | 0.18 | 0.26 | 8.26 | 0.25 | 16.50 | 16.25 | 16.98 | 16.98 | 7209 |
| 1.98 | 5.56 | 0.20 | 0.22 | 7.96 | 0.25 | 15.50 | 15.25 | 1.44 | 17.91 | 6920 |
| 0.00 | 6.32 | 1.71 | 0.30 | 8.33 | 0.63 | 23.32 | 22.69 | 9.59 | 9.59 | 6653 |
| 3.02 | 6.68 | 0.12 | 0.29 | 10.11 | 0.23 | 6.02 | 5.79 | 5.76 | 5.76 | 6826 |
| 2.56 | 7.24 | 0.24 | 0.28 | 10.32 | 0.03 | 10.23 | 10.20 | 7.97 | 10.84 | 6751 |
| 0.23 | 3.96 | 0.14 | 0.60 | 4.93 | 0.92 | 9.01 | 8.09 | 4.60 | 5.30 | 6585 |
| 0.00 | 3.00 | 4.88 | 2.44 | 10.32 | 2.96 | 8.86 | 5.90 | 4.11 | 4.11 | 6584 |

TABLE 8. ANALYSES OF MIXED FERTILIZERS—Continued

| Station No. | Manufacturer and Brand | Place of Sampling | Acid-forming (A) Non-acid-forming (NA) or near neutral (N) |
|---|--|---------------------|--|
| International Agricultural Corp., Woburn, Mass. | | | |
| 6769 | International 4-8-4 | Norwich | A |
| 6768 | International 4-8-10 | Norwich | A |
| 6924 | International 5-8-7 | Norwich | A |
| 6921 | International 6-12-12-2 ¹ | Norwich | N |
| 6923 | International 7-6-6 | Norwich | A |
| Killen & Hall, Inc., Darien, Conn. | | | |
| 6456 | Killen & Hall Tree Food 8-5-2 | Darien | A |
| McArdle Seed Store, Greenwich, Conn. | | | |
| 6451 | McArdle Special Fertilizer 6-5-3 | Greenwich | A |
| Olds & Whipple, Inc., Hartford, Conn. | | | |
| 6823 | Luxura 5-8-6 | East Hartford | A |
| 6916 | O & W 3-10-4 Corn Special Fertilizer | Bloomfield | NA |
| 6691 | O & W 4-8-4 Market Garden Fertilizer | Bloomfield | NA |
| 7101 | O & W 4-8-7 Potato and General Purpose | East Hartford | NA |
| 7059 | O & W 5-3-5 Complete Tobacco Fertilizer | Suffield | NA |
| 7107 | O & W 5-5-15 High Grade Tobacco Starter and Potash Compound | Wapping | NA |
| 6693 | O & W 5-8-7 Potato and General Purpose Fertilizer | Bloomfield | A |
| 7106 | O & W 5-10-10 Fertilizer | Ellington | A |
| 7103 | O & W 6-3-6 Blue Label Tobacco Fertilizer | East Hartford | NA |
| 7105 | O & W 6-3-6 Blue Label Tobacco Fertilizer, Potash derived from Cottonhull Ashes | East Hartford | NA |
| 7104 | O & W 6-3-7 Special Tobacco Fertilizer | East Granby | NA |
| 6692 | O & W 7-7-7 Top Dressing and Grass Fertilizer | Bloomfield | A |
| 7102 | O & W 8-16-16 Fertilizer | Bolton | A |
| Old Deerfield Fertilizer Co., Inc., So. Deerfield, Mass. | | | |
| 6616 | Old Deerfield 4-8-7 | Hazardville | N |
| 7070 | Old Deerfield 5-3-5 | Suffield | NA |
| 7071 | Old Deerfield 5-5-15 | Suffield | NA |
| 6615 | Old Deerfield 5-8-7 | Hazardville | N |
| 7068 | Old Deerfield 6-3-7 | Granby | N |
| 6617 | Old Deerfield 7-7-7 | Hazardville | A |

¹Guaranteed 2% MgO; found 2.63%.

| Station No. | Nitrogen | | | | | Phosphoric Acid | | | Potash | | Station No. |
|-------------|-------------|------------|-----------------------|-------------------------|-------|-------------------|-------|-----------------------|------------|-------|-------------|
| | In nitrates | In ammonia | Organic water-soluble | Organic water-insoluble | Total | Citrate-insoluble | Total | So-called "Available" | As muriate | Total | |
| | % | % | % | % | % | % | % | % | % | % | |
| | 0.68 | 2.44 | 0.60 | 0.20 | 3.92 | 0.42 | 8.55 | 8.13 | 3.54 | 4.02 | 6769 |
| | 0.65 | 2.40 | 0.64 | 0.19 | 3.88 | 0.48 | 8.75 | 8.27 | 9.00 | 9.81 | 6768 |
| | 0.75 | 3.32 | 0.68 | 0.21 | 4.96 | 0.32 | 8.40 | 8.08 | 6.50 | 7.17 | 6924 |
| | 1.90 | 2.56 | 0.64 | 0.82 | 5.96 | 0.20 | 12.08 | 11.88 | 10.76 | 12.70 | 6921 |
| | 0.65 | 5.00 | 0.45 | 0.43 | 6.53 | 0.40 | 6.75 | 6.35 | 5.61 | 6.02 | 6923 |
| | 0.41 | 4.72 | 0.28 | 2.59 | 8.00 | 0.16 | 5.85 | 5.69 | 2.29 | 2.29 | 6456 |
| | 0.79 | 1.58 | 1.30 | 2.54 | 6.21 | 0.20 | 6.74 | 6.54 | 3.27 | 4.58 | 6451 |
| | 0.47 | 2.32 | 0.40 | 2.20 | 5.39 | 1.86 | 12.09 | 10.23 | 0.57 | 7.28 | 6823 |
| | 0.66 | 1.70 | 0.02 | 0.72 | 3.10 | 0.62 | 11.05 | 10.43 | 4.47 | 4.47 | 6916 |
| | 0.51 | 2.40 | 0.40 | 0.72 | 4.03 | 0.73 | 9.55 | 8.82 | 4.52 | 4.52 | 6691 |
| | 0.70 | 2.26 | 0.46 | 0.66 | 4.08 | 0.60 | 8.80 | 8.20 | 7.07 | 7.07 | 7101 |
| | 0.76 | 0.04 | 0.88 | 3.50 | 5.18 | 0.21 | 3.74 | 3.53 | 0.70 | 5.97 | 7069 |
| | 1.56 | 0.00 | 2.00 | 1.70 | 5.26 | 0.46 | 6.02 | 5.56 | 1.44 | 15.78 | 7107 |
| | 0.60 | 3.04 | 0.64 | 0.70 | 4.98 | 0.42 | 9.22 | 8.80 | 7.84 | 7.84 | 6693 |
| | 0.69 | 2.92 | 0.72 | 1.00 | 5.33 | 0.63 | 10.79 | 10.16 | 10.05 | 10.05 | 7106 |
| | 0.74 | 0.00 | 1.24 | 4.16 | 6.14 | 0.44 | 4.12 | 3.68 | 0.60 | 6.64 | 7103 |
| | 0.72 | 0.04 | 1.74 | 3.54 | 6.04 | 0.37 | 4.08 | 3.71 | 0.65 | 6.47 | 7105 |
| | 0.63 | 0.08 | 1.20 | 4.11 | 6.02 | 0.35 | 3.96 | 3.61 | 0.62 | 7.27 | 7104 |
| | 2.80 | 3.46 | 0.18 | 0.54 | 6.98 | 0.23 | 8.04 | 7.81 | 8.63 | 8.63 | 6692 |
| | 0.87 | 3.32 | 2.72 | 0.80 | 7.71 | 0.59 | 15.70 | 15.11 | 17.85 | 17.85 | 7102 |
| | 0.65 | 1.36 | 1.28 | 0.89 | 4.18 | 0.42 | 9.87 | 9.45 | 8.14 | 8.14 | 6616 |
| | 0.50 | 0.40 | 0.56 | 3.90 | 5.36 | 0.27 | 4.37 | 4.10 | 0.62 | 6.09 | 7070 |
| | 0.51 | 0.44 | 2.20 | 1.90 | 5.05 | 0.61 | 7.31 | 6.70 | 1.42 | 15.78 | 7071 |
| | 0.72 | 1.92 | 1.80 | 0.83 | 5.27 | 0.39 | 10.13 | 9.74 | 7.90 | 7.90 | 6615 |
| | 0.80 | 0.32 | 1.56 | 4.14 | 6.82 | 0.49 | 5.50 | 5.01 | 0.92 | 7.97 | 7068 |
| | 1.58 | 3.68 | 1.38 | 0.58 | 7.22 | 0.24 | 8.11 | 7.87 | 7.69 | 7.69 | 6617 |

TABLE 8. ANALYSES OF MIXED FERTILIZERS—Continued

| Station No. | Manufacturer and Brand | Place of Sampling | Acid-forming (A) Non-acid-forming (NA) or near neutral (N) | Nitrogen | | | | | Phosphoric Acid | | | Potash | | Station No. |
|-------------|---|-------------------|--|-------------|------------|-----------------------|-------------------------|-------|-------------------|-----------------------|------------|--------|-------|-------------|
| | | | | In nitrates | In ammonia | Organic water-soluble | Organic water-insoluble | Total | Citrate-insoluble | So-called "Available" | As muriate | Total | | |
| | | | | % | % | % | % | % | % | % | % | % | % | |
| 6666 | Outpost Nurseries, Inc., Ridgefield, Conn. | Ridgefield | A | .41 | 2.06 | 2.20 | 3.67 | 8.34 | 0.59 | 6.86 | 6.27 | 3.01 | 3.55 | 6666 |
| 6866 | Plantspur Products Co., Ridgefield, N. J. | New Haven | A | 0.00 | 2.20 | 1.34 | 0.46 | 4.00 | 0.35 | 3.58 | 3.23 | 1.71 | 1.71 | 6866 |
| 6494 | Frank S. Platt Co., Inc., New Haven, Conn. | New Haven | A | 0.93 | 3.32 | 0.76 | 0.13 | 5.14 | 0.44 | 8.75 | 8.31 | 6.97 | 6.97 | 6494 |
| 6495 | Platco 5-8-7 Fertilizer Platt's 10-5-5 Special Lawn Fertilizer | New Haven | N | 1.40 | 3.04 | 3.76 | 2.12 | 10.32 | 0.63 | 7.11 | 6.48 | 0.58 | 5.75 | 6495 |
| | The Rogers & Hubbard Co., Portland, Conn. | | | | | | | | | | | | | |
| 6811 | Gro-Fast Plant Food 5-6-6 | New Haven | NA | 0.00 | 2.20 | 0.63 | 2.59 | 5.42 | 0.64 | 6.65 | 6.01 | 6.14 | 7.30 | 6811 |
| 6894 | Hubbard's All Soils Fertilizer 4-8-4 | Portland | NA | 0.48 | 1.60 | 1.24 | 0.64 | 3.96 | 0.91 | 9.30 | 8.39 | 4.18 | 4.18 | 6894 |
| 7109 | Hubbard's Climax Tobacco Fertilizer 5-3-5 | Portland | NA | 0.76 | 0.04 | 1.68 | 2.86 | 5.34 | 0.20 | 3.60 | 3.40 | 0.82 | 5.94 | 7109 |
| 6895 | Hubbard's Corn Fertilizer 4-8-7 | Portland | N | 0.55 | 1.62 | 0.52 | 1.52 | 4.21 | 0.93 | 9.61 | 8.68 | 7.26 | 7.26 | 6895 |
| 7108 | Hubbard's Corn and Grain Fertilizer 3-10-4 | Portland | NA | 0.53 | 1.11 | 0.95 | 0.65 | 3.24 | 0.81 | 11.45 | 10.64 | 4.66 | 4.66 | 7108 |
| 6744 | Hubbard's Golf Course Fertilizer 8-6-2 | Willimantic | NA | 0.23 | 1.36 | 3.12 | 3.73 | 8.44 | 1.09 | 8.90 | 7.81 | 1.54 | 2.00 | 6744 |
| 6587 | Hubbard's High Potash Fertilizer 4-8-10 | New Britain | N | 0.52 | 1.76 | 1.32 | 0.71 | 4.31 | 0.90 | 9.41 | 8.51 | 9.93 | 9.93 | 6587 |
| 6586 | Hubbard's Potato Fertilizer 5-8-7 | New Britain | N | 0.62 | 1.72 | 1.36 | 1.31 | 5.01 | 0.94 | 9.70 | 8.76 | 7.40 | 7.40 | 6586 |
| 6902 | Hubbard's Tobacco Grower 6-3-6 | Portland | NA | 0.97 | 0.08 | 1.68 | 3.41 | 6.14 | 0.50 | 4.43 | 3.93 | 0.88 | 7.13 | 6902 |
| 7220 | Hubbard's Top Dressing 8-5-8 | Portland | NA | 7.32 | 0.18 | 0.30 | 0.42 | 8.22 | 0.65 | 7.09 | 6.44 | 7.83 | 7.83 | 7220 |
| 6847 | Hubbard's Vegetable Manure 5-8-10 | Portland | N | 0.89 | 1.88 | 1.20 | 1.07 | 5.04 | 1.54 | 11.59 | 10.05 | 1.62 | 10.64 | 6847 |
| 6689 | Red H 4-8-4 | Hartford | NA | 0.60 | 2.72 | 0.60 | 0.42 | 4.34 | 0.57 | 9.19 | 8.62 | 4.12 | 4.12 | 6689 |
| 6848 | Red H Brand 4-8-7 | Portland | NA | 0.60 | 2.88 | 0.52 | 0.43 | 4.43 | 0.56 | 9.17 | 8.61 | 6.60 | 6.60 | 6848 |
| 7211 | Red H Brand 4-8-7 | Portland | N | 0.33 | 2.70 | 0.76 | 0.43 | 4.22 | 0.75 | 9.40 | 8.65 | 6.61 | 6.61 | 7211 |
| 6806 | Red H Brand 4-8-10 | Guilford | NA | 0.57 | 2.76 | 0.48 | 0.39 | 4.20 | 0.50 | 9.19 | 8.69 | 9.47 | 9.47 | 6806 |
| 7230 | Red H Brand 4-8-10 | Portland | NA | 0.44 | 2.80 | 0.64 | 0.30 | 4.18 | 0.19 | 8.91 | 8.72 | 9.48 | 9.48 | 7230 |
| 6748 | Red H Brand 5-8-7 | Willimantic | NA | 0.75 | 3.52 | 0.48 | 0.41 | 5.16 | 0.53 | 8.95 | 8.42 | 6.63 | 6.63 | 6748 |
| 7229 | Red H Brand 5-8-7 | Portland | N | 0.63 | 3.40 | 0.60 | 0.43 | 5.06 | 0.28 | 9.15 | 8.87 | 7.45 | 7.45 | 7229 |
| 6659 | Red H Brand 7-7-7 | Danbury | A | 0.56 | 4.98 | 1.16 | 0.42 | 7.12 | 0.50 | 8.50 | 8.00 | 6.89 | 6.89 | 6659 |
| | O. M. Scott & Sons Co., Marysville, Ohio | | | | | | | | | | | | | |
| 6568 | Scott's Turf Builder 10-6-4 | Yalesville | A | 0.20 | 6.46 | 0.20 | 3.54 | 10.40 | 0.22 | 6.26 | 6.04 | 3.53 | 4.72 | 6568 |
| | M. L. Shoemaker & Co., Philadelphia, Pa. | | | | | | | | | | | | | |
| 6621 | M. L. Shoemaker's "Swift-Sure" 4-10-0 Tobacco Starter | Thompsonville | NA | 0.29 | 2.36 | 0.46 | 0.75 | 3.86 | 1.45 | 12.05 | 10.60 | ..... | ..... | 6621 |

TABLE 8. ANALYSES OF MIXED FERTILIZERS—Concluded

| Station No. | Manufacturer and Brand | Place of Sampling | Acid-forming (A) Non-acid-forming (NA) or near neutral (N) |
|-------------|--|-------------------|--|
| | Standard Wholesale Phosphate & Acid Works, Baltimore, Md. | | |
| 6854 | Standard 5-8-7 | Glastonbury | A |
| 6855 | Standard 5-8-10 | Glastonbury | A |
| | Stump & Walter Co., New York, N. Y. | | |
| 6441 | Sawco Emerald Grass Fertilizer 5-7-3 | Stamford | A |
| 6442 | Sawco General Garden Fertilizer 5-10-5 | Stamford | A |
| | Summers Fertilizer Co., Inc., Baltimore, Md. | | |
| 6562 | Summers "Best on Earth" 3-10-6 | Wallingford | NA |
| 6565 | Summers "Best on Earth" 4-8-4 | Wallingford | NA |
| 6566 | Summers "Best on Earth" 4-8-10 | Wallingford | NA |
| 6564 | Summers "Best on Earth" 5-8-7 | Wallingford | N |
| | Swift & Co. Fertilizer Works, Baltimore, Md. | | |
| 6461 | Roselawn 5-8-7 | Norwalk | A |
| 6865 | Swift's Special Golf Fertilizer 6-12-4 | Fairfield | A |
| 6445 | Vigoro 4-12-4 | Stamford | A |
| | Tennessee Corp., Lockland, Ohio | | |
| 6690 | Loma 5-10-4 | Hartford | A |
| | I. P. Thomas & Son Co., Camden, N. J. | | |
| 6559 | I. P. Thomas 3-10-6 | North Haven | A |
| 6560 | I. P. Thomas 5-8-7 | North Haven | A |
| | F. H. Woodruff & Sons, Inc., Milford, Conn. | | |
| 6508 | Gro-Sod Lawn Food 10-6-4 | Milford | A |
| 6789 | Gro-Sod Lawn Food 10-6-4 | Milford | A |
| | Woodruff Fertilizer Works, Inc., Orange, Conn. | | |
| 6516 | Woodruff's 3-10-6 Fertilizer | Orange | NA |
| 6861 | Woodruff's 8-16-16 Fertilizer | Orange | A |
| 6514 | Woodruff's Big Crop Fertilizer 5-8-7 | Orange | A |
| 7065 | Woodruff's Corn Fertilizer 4-16-4 | Orange | A |
| 6513 | Woodruff's Top Dresser 7-6-6 | Orange | NA |
| 6515 | Woodruff's Yankee Special Fertilizer 5-10-5 | Orange | A |

| In nitrates | Nitrogen | | | | Phosphoric Acid | | | Potash | | Station No. |
|-------------|------------|-----------------------|-------------------------|-------|-------------------|-------|-----------------------|------------|-------|-------------|
| | In ammonia | Organic water-soluble | Organic water-insoluble | Total | Citrate-insoluble | total | So called "Available" | As muriate | Total | |
| % | % | % | % | % | % | % | % | % | % | |
| 0.42 | 3.68 | 0.52 | 0.36 | 4.98 | 0.29 | 8.79 | 8.50 | 5.01 | 6.72 | 6854 |
| 1.07 | 2.68 | 0.76 | 0.40 | 4.91 | 0.60 | 10.88 | 10.20 | 9.04 | 10.27 | 6855 |
| 0.00 | 3.24 | 0.99 | 0.86 | 5.09 | 0.84 | 8.76 | 7.92 | 3.72 | 3.72 | 6441 |
| 0.18 | 3.88 | 0.48 | 0.64 | 5.18 | 0.74 | 10.85 | 10.11 | 4.97 | 4.97 | 6442 |
| 0.51 | 2.28 | 0.10 | 0.15 | 3.04 | 0.57 | 10.89 | 10.32 | 6.35 | 6.35 | 6562 |
| 0.84 | 3.40 | 0.04 | 0.12 | 4.40 | 0.72 | 9.28 | 8.56 | 4.27 | 4.27 | 6565 |
| 0.24 | 3.56 | 0.24 | 0.12 | 4.16 | 0.55 | 9.33 | 8.78 | 9.95 | 9.95 | 6566 |
| 0.35 | 4.40 | 0.20 | 0.11 | 5.06 | 0.48 | 10.34 | 9.86 | 6.95 | 6.95 | 6564 |
| 0.33 | 3.68 | 0.50 | 0.51 | 5.02 | 1.07 | 9.46 | 8.39 | 7.29 | 7.29 | 6461 |
| 0.39 | 5.04 | 0.00 | 0.30 | 5.73 | 0.58 | 12.94 | 12.36 | 4.09 | 4.09 | 6865 |
| 0.41 | 3.16 | 0.18 | 0.47 | 4.22 | 0.86 | 13.71 | 12.85 | 3.99 | 4.63 | 6445 |
| 0.34 | 4.46 | 0.00 | 0.44 | 5.24 | 0.38 | 10.86 | 10.48 | 4.60 | 4.60 | 6690 |
| 0.27 | 1.68 | 0.80 | 0.25 | 3.00 | 1.07 | 12.01 | 10.94 | 6.47 | 6.47 | 6559 |
| 0.36 | 3.68 | 0.56 | 0.40 | 5.00 | 0.59 | 8.98 | 8.39 | 7.16 | 7.16 | 6560 |
| 0.33 | 4.72 | 3.24 | 1.39 | 9.68 | 0.56 | 7.25 | 6.69 | 3.38 | 4.03 | 6508 |
| 0.11 | 4.76 | 3.48 | 1.48 | 9.83 | 0.71 | 7.31 | 6.60 | 4.42 | 4.42 | 6789 |
| 0.00 | 2.48 | 0.37 | 0.28 | 3.13 | 0.56 | 10.46 | 9.90 | 5.71 | 5.71 | 6516 |
| 0.00 | 4.06 | 3.09 | 0.66 | 7.81 | 0.55 | 16.29 | 15.74 | 16.96 | 16.96 | 6861 |
| 0.52 | 3.02 | 0.64 | 0.86 | 5.04 | 0.30 | 8.49 | 8.19 | 7.21 | 7.21 | 6514 |
| 0.60 | 2.40 | 0.36 | 0.64 | 4.00 | 0.59 | 16.70 | 16.11 | 4.48 | 4.48 | 7065 |
| 3.39 | 2.32 | 0.52 | 0.71 | 6.94 | 0.30 | 6.39 | 6.09 | 5.88 | 5.88 | 6513 |
| 0.78 | 2.80 | 0.62 | 0.82 | 5.02 | 0.71 | 10.61 | 9.90 | 5.12 | 5.12 | 6515 |

TABLE 8a. CHEMICAL DEFICIENCIES

| Manufacturer or Dealer | Number of samples | | Deficiencies in | | | |
|--|-------------------|----------------------|-----------------|---|--------|-------|
| | Number of samples | Number of quantities | Nitrogen | Available P ₂ O ₅ | Potash | Total |
| | | | | | | |
| Acme Guano Co. | 12 | 36 | 4 | 2 | 5 | 11 |
| American Agricultural Chemical Co. | 25 | 75 | 7 | 1 | 0 | 8 |
| American Cyanamid Co. | 1 | 2 | 0 | 0 | 0 | 0 |
| Apothecaries Hall Co. | 17 | 50 | 0 | 0 | 1 | 1 |
| Armour Fertilizer Works | 10 | 30 | 4 | 0 | 4 | 8 |
| Associated Seed Growers, Inc. | 3 | 9 | 0 | 0 | 0 | 1 |
| Bartlett, F. A., Tree Expert Co. | 1 | 3 | 0 | 0 | 1 | 0 |
| Baugh & Sons Co., The | 8 | 24 | 3 | 0 | 1 | 4 |
| Berkshire Chemical Co. | 11 | 33 | 3 | 0 | 0 | 3 |
| Consolidated Rendering Co. | 25 | 75 | 4 | 0 | 2 | 6 |
| Davey Tree Expert Co. | 2 | 6 | 2 | 0 | 0 | 2 |
| Davison Chemical Corp., The | 2 | 6 | 0 | 0 | 0 | 0 |
| Eastern States Farmers' Exchange | 17 | 49 | 0 | 6 | 1 | 7 |
| Goulard & Olen, Inc. | 2 | 6 | 0 | 0 | 0 | 0 |
| International Agricultural Corp. | 5 | 15 | 2 | 0 | 0 | 2 |
| Killen & Hall, Inc. | 1 | 3 | 0 | 0 | 0 | 0 |
| McArdle Seed Store | 1 | 3 | 0 | 0 | 0 | 0 |
| Olds & Whipple, Inc. | 13 | 39 | 1 | 1 | 0 | 2 |
| Old Deerfield Fertilizer Co., Inc. | 6 | 18 | 0 | 0 | 0 | 0 |
| Outpost Nurseries, Inc. | 1 | 3 | 0 | 0 | 0 | 0 |
| Plantspur Products Co. | 1 | 3 | 0 | 0 | 1 | 1 |
| Platt, Frank S. Co., Inc. | 2 | 6 | 0 | 0 | 5 | 5 |
| Rogers & Hubbard Co., The | 19 | 57 | 0 | 0 | 0 | 0 |
| Scott, O. M., & Sons Co. | 1 | 3 | 0 | 0 | 0 | 1 |
| Shoemaker, M. L., & Co. | 1 | 2 | 1 | 0 | 0 | 1 |
| Standard Wholesale Phosphate & Acid Works | 2 | 6 | 0 | 0 | 0 | 0 |
| Stumpp & Walter Co. | 2 | 6 | 0 | 0 | 0 | 0 |
| Summers Fertilizer Co., Inc. | 4 | 12 | 0 | 0 | 0 | 0 |
| Swift & Co., Fertilizer Works | 3 | 9 | 1 | 0 | 0 | 1 |
| Tennessee Corp. | 1 | 3 | 0 | 0 | 0 | 0 |
| Thomas, I. P., & Son Co. | 2 | 6 | 0 | 0 | 0 | 0 |
| Woodruff, F. H., & Son, Inc. | 2 | 6 | 2 | 0 | 0 | 2 |
| Woodruff Fertilizer Works, Inc., The | 6 | 18 | 1 | 1 | 1 | 3 |
| | 209 | 622 | 35 | 11 | 23 | 69 |

TABLE 9. ANALYSES OF SPECIAL AND HOME MIXTURES

| Station No. | Name of Mixture | Place of Sampling | Total nitrogen | Phosphoric acid | | | Potash | | | Station No. |
|-------------------|---|--|----------------|-------------------|-------|-----------------------|------------|-------|----------|-------------|
| | | | | Citrate-insoluble | Total | So-called "Available" | As sulfate | Total | Chlorine | |
| | | | % | % | % | % | % | % | % | |
| 6852 | Sampled by Station Tobacco Fertilizer, Special Mixture (Bantle) | Clarence Philips, East Hartford | 6.00 | 0.59 | 3.90 | 3.31 | 0.60 | 7.06 | 0.45 | 6852 |
| 7111 ¹ | Special Mixture for Japanese Beetle | N. L. Rich, Stamford | 1.18 | 0.19 | 0.51 | 0.32 | 0.29 | 0.70 | 0.21 | 7111 |
| 7112 ² | Special Mixture for Tree Food | N. L. Rich, Stamford | 0.82 | 1.57 | 6.66 | 5.09 | 0.17 | 0.17 | ..... | 7112 |
| 6739 | Home Mixed Fertilizer—Formula A—New Land | American Sumatra Tobacco Corp., Bloomfield | 5.60 | 0.25 | 2.76 | 2.51 | 0.82 | 6.59 | 0.62 | 6739 |
| 6740 | Home Mixed Fertilizer—Formula A—Sanford Division | American Sumatra Tobacco Corp., Bloomfield | 6.00 | 0.21 | 2.70 | 2.49 | 0.58 | 5.64 | 0.44 | 6740 |
| 6760 | Home Mixed Fertilizer—Formula A—Potter's Division | American Sumatra Tobacco Corp., Bloomfield | 5.92 | 0.70 | 2.61 | 1.91 | 0.53 | 5.47 | 0.40 | 6760 |
| 7276 | Special Mixture Fertilizer | C. R. Burr & Co., Inc., Manchester | 0.08 | 0.15 | 14.36 | 14.21 | 19.90 | 19.90 | ..... | 7276 |
| 6044 | Fertilizer, Formula A—P.A. | Consolidated Cigar Corp., Hartford | 5.76 | 0.26 | 4.36 | 4.10 | 0.17 | 7.40 | 0.13 | 6044 |
| 6194 | Fertilizer, Formula B—P.B. | Consolidated Cigar Corp., Hartford | 6.19 | 0.29 | 3.63 | 3.34 | 0.16 | 5.88 | 0.17 | 6045 |
| 6195 | Fertilizer, Formula Bm | Consolidated Cigar Corp., Hartford | 6.00 | 0.30 | 3.64 | 3.34 | 0.56 | 6.39 | 0.42 | 6194 |
| 6196 | Fertilizer, Formula A—Hu | Consolidated Cigar Corp., Hartford | 6.04 | 0.21 | 4.06 | 3.85 | 0.52 | 6.81 | 0.39 | 6195 |
| 6197 | Fertilizer, Formula B—Hu | Consolidated Cigar Corp., Hartford | 5.98 | 0.24 | 3.81 | 3.57 | 0.60 | 6.07 | 0.45 | 6196 |
| 6253 | Mixed Fertilizer—Formula A—De | Consolidated Cigar Corp., Hartford | 5.92 | 0.55 | 4.31 | 3.76 | 0.64 | 7.45 | 0.48 | 6197 |
| 6359 | Fertilizer—Du—A | Consolidated Cigar Corp., Hartford | 6.14 | 0.27 | 4.45 | 4.18 | 0.51 | 6.49 | 0.38 | 6253 |
| 6360 | Fertilizer—Du—B | Consolidated Cigar Corp., Hartford | 6.21 | 0.56 | 4.66 | 4.10 | 0.41 | 5.48 | 0.31 | 6359 |
| 6361 | Fertilizer—Du—B | Consolidated Cigar Corp., Hartford | 6.08 | 0.26 | 3.95 | 3.69 | 0.40 | 5.59 | 0.30 | 6360 |
| 6577 | Fertilizer—Formula De Sb | Consolidated Cigar Corp., Hartford | 6.08 | 0.32 | 4.04 | 3.72 | 0.52 | 5.67 | 0.39 | 6361 |
| | | | 6.18 | 0.29 | 3.89 | 3.60 | 0.52 | 5.76 | 0.39 | 6577 |

¹Contained 18.4% moisture.²Contained 25.1% moisture.

TABLE 9. ANALYSES OF SPECIAL AND HOME MIXTURES—*Concluded*

| Station No. | Name of Mixture | Place of Sampling | Tot It rogen | Phosphoric acid | | | Potash | | | Station No. |
|-------------|---|--|--------------------|-------------------|-------|---------------------|------------|-------|----------|-------------|
| | | | | Citrate-insoluble | Total | So-called Available | As muriate | Total | Chloride | |
| | | | % | % | % | % | % | % | | |
| 6578 | Home Mixture Fertilizer—Formula De—Sa | Consolidated Cigar Corp., Hartford | 6.12 | 0.30 | 3.87 | 3.57 | 0.39 | 6.21 | 0.29 | 6578 |
| 6756 | Home Mixture Fertilizer—S.B.A.H.A. (HU) | Consolidated Cigar Corp., Hartford | 6.16 | 0.46 | 3.57 | 3.11 | 0.65 | 6.07 | 0.49 | 6756 |
| 6757 | Home Mixture Fertilizer—S.B.A.—P. | Consolidated Cigar Corp., Hartford | 6.02 | 0.55 | 4.09 | 3.54 | 0.56 | 6.17 | 0.42 | 6757 |
| 6758 | Home Mixture Fertilizer—S.B.B.—P. | Consolidated Cigar Corp., Hartford | 6.16 | 0.35 | 3.44 | 3.09 | 0.53 | 5.77 | 0.40 | 6758 |
| 6759 | Home Mixture Fertilizer—S.B.B.—W. | Consolidated Cigar Corp., Hartford | 6.30 | 0.23 | 3.60 | 3.37 | 0.52 | 5.60 | 0.39 | 6759 |
| 6472 | Home Mixture, Formula 40-C—No. 35 | L. B. Haas & Co., Inc., Hartford | 6.50 | 0.34 | 4.53 | 4.19 | 6.54 | 6.54 | ..... | 6472 |
| 6473 | Home Mixture, Formula 40-D—No. 36 | L. B. Haas & Co., Inc., Hartford | 6.14 | 0.52 | 5.05 | 4.53 | 0.48 | 6.25 | 0.36 | 6473 |
| 6474 | Home Mixture, Formula 40-E—No. 37 | L. B. Haas & Co., Inc., Hartford | 6.30 | 0.33 | 2.94 | 2.61 | 1.52 | 6.19 | 0.33 | 6474 |
| 6475 | Fertilizer, Formula 40-F, No. 38 | L. B. Haas & Co., Inc., Hartford | 6.29 | 0.27 | 2.92 | 2.65 | 0.45 | 5.46 | 0.34 | 6475 |
| 6476 | Home Mixture, Formula 40-B—No. 39 | L. B. Haas & Co., Inc., Hartford | 6.27 | 0.51 | 4.80 | 4.29 | 0.37 | 5.51 | 0.28 | 6476 |
| 6477 | Home Mixture, Formula 40-A—No. 33 | L. B. Haas & Co., Inc., Hartford | 6.17 | 0.69 | 5.74 | 5.05 | 0.45 | 6.27 | 0.34 | 6477 |
| 6478 | Home Mixture, Formula 40-B—No. 34 | L. B. Haas & Co., Inc., Hartford | 6.15 | 0.70 | 5.35 | 4.65 | 0.43 | 5.91 | 0.32 | 6478 |
| 6731 | Home Mixture, 40-A | L. B. Haas & Co., Inc., Hartford | 6.42 | 0.25 | 2.87 | 2.62 | 0.52 | 6.10 | 0.39 | 6731 |
| 6732 | Home Mixture, 40-B | L. B. Haas & Co., Inc., Hartford | 6.17 | 0.57 | 5.13 | 4.56 | 0.54 | 5.78 | 0.41 | 6732 |
| 6733 | Home Mixture, 40-E | L. B. Haas & Co., Inc., Hartford | 6.10 | 0.68 | 5.20 | 4.52 | 0.60 | 6.39 | 0.45 | 6733 |
| 6610 | Mixed Fertilizer | Hartman Tobacco Co., Hartford | 3.00 | 0.09 | 3.25 | 3.16 | ..... | 22.26 | 1.64 | 6610 |
| 7038 | Home Mixture—Buckland | Hartman Tobacco Co., Hartford | 6.12 | 0.20 | 3.77 | 3.57 | 0.45 | 6.23 | 0.34 | 7038 |
| 7039 | Home Mixture—Hazardville | Hartman Tobacco Co., Hartford | 5.44 | 0.11 | 3.44 | 3.33 | 0.54 | 6.00 | 0.41 | 7039 |
| 7040 | Home Mixture—Windsor No. 2 | Hartman Tobacco Co., Hartford | 6.03 | 0.09 | 3.80 | 3.71 | 0.54 | 6.82 | 0.41 | 7040 |
| 7041 | Home Mixture—Suffield 1940 | Hartman Tobacco Co., Hartford | 5.70 | 0.14 | 3.55 | 3.41 | 0.56 | 5.76 | 0.42 | 7041 |
| 7080 | Home Mixture—Suffield | Hartman Tobacco Co., Hartford | 9.96 | 0.21 | 2.51 | 2.30 | 0.31 | 1.52 | 0.23 | 7080 |
| 7081 | Home Mixture—Hazardville | Hartman Tobacco Co., Hartford | 9.59 | 0.25 | 2.45 | 2.20 | 0.25 | 1.43 | 0.19 | 7081 |
| 7082 | Home Mixture—Windsor No. 1 | Hartman Tobacco Co., Hartford | 9.50 | 0.17 | 2.54 | 2.37 | 0.29 | 1.47 | 0.22 | 7082 |
| 7083 | Home Mixture—Windsor No. 2 | Hartman Tobacco Co., Hartford | 9.50 | 0.19 | 2.60 | 2.41 | 0.28 | 1.44 | 0.21 | 7083 |
| 7084 | Home Mixture—Buckland | Hartman Tobacco Co., Hartford | 9.65 | 0.25 | 2.46 | 2.21 | 0.23 | 1.33 | 0.17 | 7084 |
| 6642 | Mixed Fertilizer—Silver Lane Farm | Kohn Bros. Tobacco Co., Inc., Hartford | 6.22 | 0.29 | 5.47 | 5.18 | 0.60 | 5.20 | 0.45 | 6642 |
| 6849 | Home Mixture—Friend Farm | Kohn Bros. Tobacco Co., Inc., Hartford | 5.89 | 0.24 | 4.24 | 4.00 | 0.11 | 5.40 | 0.08 | 6849 |
| 6850 | Home Mixture—A. H. Grant & Sons Farm | Kohn Bros. Tobacco Co., Inc., Hartford | 5.59 | 0.20 | 3.96 | 3.76 | 0.23 | 3.38 | 0.17 | 6850 |
| 6851 | Home Mixture—Silverherz Farm | Kohn Bros. Tobacco Co., Inc., Hartford | 6.34 | 0.18 | 5.11 | 4.93 | 0.53 | 5.35 | 0.40 | 6851 |
| 6953 | Home Mixture—Ranson Farm | Kohn Bros. Tobacco Co., Inc., Hartford | 6.30 | 0.25 | 4.94 | 4.69 | 0.85 | 7.21 | 0.64 | 6953 |
| 6761 | Home Mixed Fertilizer | Matulis Bros., Broad Brook | 4.94 | 0.93 | 8.16 | 7.23 | 9.39 | 9.39 | ..... | 6761 |
| 5328 | Home Mixed Tobacco Fertilizer | Joseph Mulak, Hazardville | 5.04 | 0.58 | 5.63 | 5.05 | 0.51 | 9.30 | 0.38 | 5328 |
| 5871 | Formula A—P | Silberman & Kahn Corp., Hartford | 5.72 | 0.76 | 4.45 | 3.69 | ..... | 7.20 | 0.45 | 5871 |
| 7221 | O & W Special Mixture | Henry E. Wells, Warehouse Point | 7.26 | 0.35 | 5.82 | 5.47 | 1.00 | 12.86 | 0.75 | 7221 |

TABLE 10. ANALYSES OF SHEEP MANURE, ETC.

| Station No. | Manufacturer and Brand | Place of sampling | Nitrogen | | Total phosphoric | | Potash | | Station No. |
|-------------------|--|--------------------------------------|----------|------------|------------------|--------------------|--------|------------|-------------|
| | | | Found | Guaranteed | Found | Guaranteed | Found | Guaranteed | |
| | | | % | % | % | % | % | % | |
| 6662 | Acme Sheep Manure. The Acme Guano Co., Baltimore, Md. | W. B. Welden, Simsbury | 2.68 | 1.85 | 2.52 | 1.50 | 2.27 | 1.50 | 6662 |
| 6819 ¹ | Pulverized Sheep and Goat Manure. American Agricultural Chemical Co., No. Weymouth, Mass. | Bristol Grain & Supply Co., Bristol | 1.02 | 1.25 | 1.63 | 1.00 | 2.58 | 2.00 | 6819 |
| 6818 | Sheep Manure. Apothecaries Hall Co., Waterbury, Conn. | Hamden Grain Co., Mt. Carmel | 1.20 | 1.00 | 0.85 | 0.50 | 0.99 | 1.00 | 6818 |
| 6439 | Improved Driconure. Atkins & Durbrow, Inc., New York, N. Y. | Clapboard Hill Co., New Canaan ... | 2.65 | 2.00 | 3.16 | 1.00 | 1.41 | 1.00 | 6439 |
| 6432 | Berkshire Sheep and Goat Manure. Berkshire Chemical Co., Bridgeport, Conn. | Silliman Hardware Co., New Canaan | 1.90 | 1.25 | 1.84 | 1.00 | 2.19 | 2.00 | 6432 |
| 6657 | Corenco Sheep Manure. Consolidated Rendering Co., Boston, Mass. | Morrison & Dunham, Bethel | 1.21 | 1.25 | 1.74 | 1.00 | 2.50 | 2.00 | 6657 |
| 6447 | Davey Shredded Cattle Manure. Davey Tree Expert Co., Kent, Ohio | R. E. Landis, Old Greenwich | 2.19 | 1.00 | 3.20 | ² | 2.11 | 2.00 | 6447 |
| 6583 | G & O Sheep Manure. Goulard & Olena, Inc., New York, N. Y. | Rackliffe Bros. Co., New Britain ... | 1.42 | 1.00 | 2.09 | ³ | 3.97 | 2.00 | 6583 |
| 6669 | Hoffman's Cow Manure. A. H. Hoffman, Inc., Landisville, Pa. | Heyman's Hardware Co., Danbury.... | 2.26 | 2.00 | 2.31 | ⁴ | 2.12 | 2.00 | 6669 |
| 6663 | Hoffman's Sheep Manure. A. H. Hoffman, Inc., Landisville, Pa. | Wm. J. Rice, Stamford | 1.94 | 1.85 | 0.85 | ⁵ | 1.41 | 2.00 | 6663 |

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|------|--|--|------|------|------|---------------------|------|------|------|
| 6843 | Sheepshead Pulverized Sheep Manure. Natural Guano Co., Aurora, Ill. | Cadwell & Jones, Hartford | 2.01 | 2.00 | 1.26 | ⁶ | 3.55 | 2.00 | 6843 |
| 6618 | Premier Brand Pulverized Poultry Manure. No. American Car Corp., Chicago, Ill. | Brainard Nursery & Seed Co., Thompsonville | 5.30 | 4.93 | 2.54 | 2.75 ⁷ | 1.18 | 1.30 | 6618 |
| 6812 | Premier Brand Pulverized Sheep Manure. No. American Car Corp., Chicago, Ill. | Lightborn & Pond Co., New Haven | 1.96 | 1.65 | 2.16 | 1.00 ⁸ | 2.47 | 2.00 | 6812 |
| 6453 | Wizard Brand Cow Manure. The Pulverized Manure Co., Chicago, Ill. | McArdle Seed Store, Greenwich | 2.14 | 2.00 | 1.74 | ⁹ | 2.78 | 1.00 | 6453 |
| 6431 | Wizard Brand Pulverized Sheep Manure. The Pulverized Manure Co., Chicago, Ill. | Silliman Hardware Co., New Canaan | 2.17 | 2.00 | 2.24 | ¹⁰ | 3.21 | 2.00 | 6431 |
| 6745 | Hubbard's Sheep and Goat Manure. The Rogers & Hubbard Co., Portland, Conn. | Willimantic Grain Co., Willimantic.. | 1.82 | 1.25 | 2.49 | 1.00 | 3.53 | 2.00 | 6745 |
| 6443 | Sawco Pulverized Sheep Manure. Stumpp & Walter Co., New York, N. Y. | Stumpp & Walter Co., Stamford ... | 2.39 | 2.00 | 1.83 | 1.00 | 2.57 | 2.00 | 6443 |
| 6567 | Summers "Best on Earth" Goat Manure. Summers Fertilizer Co., Inc., Baltimore, Md. | Laden Bros. Co., Inc., Wallingford.. | 1.36 | 1.00 | 2.57 | ¹¹ | 3.88 | 3.00 | 6567 |
| 6444 | Swift's Sheep Manure. Swift & Co., Baltimore, Md. | Wm. J. Rice, Stamford | 2.00 | 1.85 | 1.68 | 1.00 | 3.02 | 1.75 | 6444 |
| 6450 | Bovung. Walker-Gordon Laboratory Co., Inc., Plainsboro, N. J. | Belmont Feed Co., Cos Cob | 2.08 | 2.00 | 2.60 | 2.00 | 2.25 | 2.00 | 6450 |

¹Moisture 29.04%.
²Guaranteed "available" phosphoric acid 1.00%: found 2.85%.
³Guaranteed "available" phosphoric acid 1.00%: found 1.36%.
⁴Guaranteed "available" phosphoric acid 2.00%: found 2.09%.
⁵Guaranteed "available" phosphoric acid 1.00%: found 0.65%.
⁶Guaranteed "available" phosphoric acid 1.00%: found 1.00%.
⁷Guaranteed "available" phosphoric acid 2.50%: found 2.41%.
⁸Guaranteed "available" phosphoric acid 0.75%: found 1.41%.
⁹Guaranteed "available" phosphoric acid 1.00%: found 1.56%.
¹⁰Guaranteed "available" phosphoric acid 1.00%: found 1.94%.
¹¹Guaranteed "available" phosphoric acid 1.00%: found 1.51%.

Analyses

TABLE 11. ANALYSES OF LIMESTONE AND SIMILAR MATERIALS

| Station No. | Manufacturer and Brand | Sampled from stock of or sent by | Chemical analysis | | | | Mechanical analysis | | Station No. | |
|---|----------------------------|---|-------------------|------------|----------------|------------|---------------------|---------|-------------|----------|
| | | | Lime (CaO) | | Magnesia (MgO) | | Total oxides | 20 mesh | | 100 mesh |
| | | | Found | Guaranteed | Found | Guaranteed | | | | |
| American Limestone Quarry Corp., Wingdale, N. Y. | | | | | | | | | | |
| 5386 | Ground Limestone | Agric. Conservation Program, Hartford | 30.32 | 30.28 | 21.80 | 21.91 | 52.12 | 100.0 | ..... | 5386 |
| 5390 | Ground Limestone | Agric. Conservation Program, Hartford | 30.36 | 30.28 | 21.49 | 21.91 | 51.85 | 100.0 | ..... | 5390 |
| 7264 | Ground Limestone | Agric. Conservation Program, Hartford | 30.42 | 30.28 | 21.62 | 21.91 | 52.04 | 100.0 | 83.3 | 7264 |
| Conklin Lime Co., Canaan, Conn. | | | | | | | | | | |
| 5058 | Ground Limestone | Agric. Conservation Program, Hartford | 29.95 | 30.00 | 21.47 | 21.00 | 51.42 | 99.9 | 39.3 | 5058 |
| 5163 | Ground Limestone | Agric. Conservation Program, Hartford | 29.71 | 30.00 | 20.75 | 21.00 | 50.46 | 99.9 | 36.4 | 5163 |
| 5164 | Ground Limestone | Agric. Conservation Program, Hartford | 30.03 | 30.00 | 20.94 | 21.00 | 50.97 | 99.9 | 38.5 | 5164 |
| 6548 | Ground Limestone | Agric. Conservation Program, Hartford | 30.14 | 30.00 | 20.84 | 21.00 | 50.98 | 100.0 | 39.0 | 6548 |
| Connecticut Agstone Co., Danbury, Conn. | | | | | | | | | | |
| 7261 | Ground Limestone | Agric. Conservation Program, Hartford | 37.91 | 44.00 | 7.82 | 6.00 | 45.73 | 95.5 | 63.0 | 7261 |
| 7435 | Ground Limestone | Agric. Conservation Program, Hartford | 41.42 | 42.00 | 5.96 | 6.00 | 47.38 | 95.6 | 60.8 | 7435 |
| 7262 | Ground Limestone | Agric. Conservation Program, Hartford | 37.63 | 44.00 | 7.65 | 6.00 | 45.28 | 96.3 | 63.5 | 7262 |
| 5384 | Ground Limestone | Agric. Conservation Program, Hartford | 38.10 | 44.00 | 8.02 | 6.00 | 46.12 | 95.6 | ..... | 5384 |
| 7434 | Ground Limestone | Agric. Conservation Program, Hartford | 36.74 | 42.00 | 7.62 | 6.00 | 44.36 | 95.3 | 61.8 | 7434 |
| 5383 | Ground Limestone | Agric. Conservation Program, Hartford | 37.19 | 44.00 | 8.00 | 6.00 | 45.19 | 95.5 | ..... | 5383 |
| 7436 | Ground Limestone | Agric. Conservation Program, Hartford | 38.38 | 42.00 | 7.57 | 6.00 | 45.95 | 94.7 | 60.7 | 7436 |
| Lee Lime Corp., Lee, Mass. | | | | | | | | | | |
| 6550 | Ground Limestone | Agric. Conservation Program, Hartford | 30.41 | 30.00 | 21.51 | 21.00 | 51.92 | 97.6 | 63.9 | 6550 |
| 6549 | Ground Limestone | Agric. Conservation Program, Hartford | 30.40 | 30.00 | 21.54 | 21.00 | 51.94 | 99.5 | 73.1 | 6549 |
| New England Lime Co., Canaan, Conn. | | | | | | | | | | |
| 4565 | Hydrated Lime, No. 9 | American Sumatra Tobacco Corp., Bloomfield | 47.24 | ..... | 32.94 | ..... | 80.18 | ..... | ..... | 4565 |
| 5508 | Ground Limestone | Agric. Conservation Program, Hartford | 30.93 | 30.00 | 21.49 | 21.00 | 52.42 | 99.8 | ..... | 5508 |
| 5385 | Ground Limestone | Agric. Conservation Program, Hartford | 30.73 | 30.00 | 21.73 | 21.00 | 52.46 | 99.9 | ..... | 5385 |
| 6645 | Ground Limestone | Agric. Conservation Program, Hartford | 30.77 | 30.00 | 21.64 | 21.00 | 52.41 | 99.8 | 73.5 | 6645 |
| D. U. Smith Ashley Falls, Mass. | | | | | | | | | | |
| 7263 | Ground Limestone | Agric. Conservation Program, Hartford | 30.52 | 30.00 | 21.49 | 21.00 | 52.01 | 100.0 | 65.8 | 7263 |
| 5509 | Ground Limestone | Agric. Conservation Program, Hartford | 30.65 | 30.00 | 21.65 | 21.00 | 52.30 | 100.0 | ..... | 5509 |

| Station No. | Manufacturer and Brand | Sampled from stock of or sent by | Chemical analysis | | | | Mechanical analysis | | Station No. | |
|---|----------------------------|---|-------------------|------------|----------------|------------|---------------------|---------|-------------|----------|
| | | | Lime (CaO) | | Magnesia (MgO) | | Total oxides | 20 mesh | | 100 mesh |
| | | | Found | Guaranteed | Found | Guaranteed | | | | |
| American Limestone Quarry Corp., Wingdale, N. Y. | | | | | | | | | | |
| 5386 | Ground Limestone | Agric. Conservation Program, Hartford | 30.32 | 30.28 | 21.80 | 21.91 | 52.12 | 100.0 | ..... | 5386 |
| 5390 | Ground Limestone | Agric. Conservation Program, Hartford | 30.36 | 30.28 | 21.49 | 21.91 | 51.85 | 100.0 | ..... | 5390 |
| 7264 | Ground Limestone | Agric. Conservation Program, Hartford | 30.42 | 30.28 | 21.62 | 21.91 | 52.04 | 100.0 | 83.3 | 7264 |
| Conklin Lime Co., Canaan, Conn. | | | | | | | | | | |
| 5058 | Ground Limestone | Agric. Conservation Program, Hartford | 29.95 | 30.00 | 21.47 | 21.00 | 51.42 | 99.9 | 39.3 | 5058 |
| 5163 | Ground Limestone | Agric. Conservation Program, Hartford | 29.71 | 30.00 | 20.75 | 21.00 | 50.46 | 99.9 | 36.4 | 5163 |
| 5164 | Ground Limestone | Agric. Conservation Program, Hartford | 30.03 | 30.00 | 20.94 | 21.00 | 50.97 | 99.9 | 38.5 | 5164 |
| 6548 | Ground Limestone | Agric. Conservation Program, Hartford | 30.14 | 30.00 | 20.84 | 21.00 | 50.98 | 100.0 | 39.0 | 6548 |
| Connecticut Agstone Co., Danbury, Conn. | | | | | | | | | | |
| 7261 | Ground Limestone | Agric. Conservation Program, Hartford | 37.91 | 44.00 | 7.82 | 6.00 | 45.73 | 95.5 | 63.0 | 7261 |
| 7435 | Ground Limestone | Agric. Conservation Program, Hartford | 41.42 | 42.00 | 5.96 | 6.00 | 47.38 | 95.6 | 60.8 | 7435 |
| 7262 | Ground Limestone | Agric. Conservation Program, Hartford | 37.63 | 44.00 | 7.65 | 6.00 | 45.28 | 96.3 | 63.5 | 7262 |
| 5384 | Ground Limestone | Agric. Conservation Program, Hartford | 38.10 | 44.00 | 8.02 | 6.00 | 46.12 | 95.6 | ..... | 5384 |
| 7434 | Ground Limestone | Agric. Conservation Program, Hartford | 36.74 | 42.00 | 7.62 | 6.00 | 44.36 | 95.3 | 61.8 | 7434 |
| 5383 | Ground Limestone | Agric. Conservation Program, Hartford | 37.19 | 44.00 | 8.00 | 6.00 | 45.19 | 95.5 | ..... | 5383 |
| 7436 | Ground Limestone | Agric. Conservation Program, Hartford | 38.38 | 42.00 | 7.57 | 6.00 | 45.95 | 94.7 | 60.7 | 7436 |
| Lee Lime Corp., Lee, Mass. | | | | | | | | | | |
| 6550 | Ground Limestone | Agric. Conservation Program, Hartford | 30.41 | 30.00 | 21.51 | 21.00 | 51.92 | 97.6 | 63.9 | 6550 |
| 6549 | Ground Limestone | Agric. Conservation Program, Hartford | 30.40 | 30.00 | 21.54 | 21.00 | 51.94 | 99.5 | 73.1 | 6549 |
| New England Lime Co., Canaan, Conn. | | | | | | | | | | |
| 4565 | Hydrated Lime, No. 9 | American Sumatra Tobacco Corp., Bloomfield | 47.24 | ..... | 32.94 | ..... | 80.18 | ..... | ..... | 4565 |
| 5508 | Ground Limestone | Agric. Conservation Program, Hartford | 30.93 | 30.00 | 21.49 | 21.00 | 52.42 | 99.8 | ..... | 5508 |
| 5385 | Ground Limestone | Agric. Conservation Program, Hartford | 30.73 | 30.00 | 21.73 | 21.00 | 52.46 | 99.9 | ..... | 5385 |
| 6645 | Ground Limestone | Agric. Conservation Program, Hartford | 30.77 | 30.00 | 21.64 | 21.00 | 52.41 | 99.8 | 73.5 | 6645 |
| D. U. Smith Ashley Falls, Mass. | | | | | | | | | | |
| 7263 | Ground Limestone | Agric. Conservation Program, Hartford | 30.52 | 30.00 | 21.49 | 21.00 | 52.01 | 100.0 | 65.8 | 7263 |
| 5509 | Ground Limestone | Agric. Conservation Program, Hartford | 30.65 | 30.00 | 21.65 | 21.00 | 52.30 | 100.0 | ..... | 5509 |

TABLE 11. ANALYSES OF LIMESTONE AND SIMILAR MATERIALS (Concluded)

| Station | Manufacturer and Brand | Sampled from stock of or sent by |
|---------|---|---|
| | | |
| | U. S. Gypsum Co., Falls Village, Conn. | |
| 5547 | Ground Limestone | Agric. Conservation Program, Hartford |
| 5548 | Ground Limestone | Agric. Conservation Program, Hartford |
| | Manufacturer Unknown | |
| 7130 | Agricultural Lime — No. 1 | W. C. Criswell, New Milford |
| 7131 | Agricultural Lime — No. 2 | W. C. Criswell, New Milford |
| 5632 | Land Plaster, Car NH 63633 | Cullman Bros., Inc., Simsbury |
| 5666 | Land Plaster, Car NH 65564 | Cullman Bros., Inc., Simsbury |
| 6160 | Calcic Lime | Cullman Bros., Inc., Simsbury |
| 6161 | Lee Hydrated Lime | Cullman Bros., Inc., Simsbury |
| 6165 | Lee Hydrated Lime | Cullman Bros., Inc., Simsbury |
| 6203 | Calcic Lime | Cullman Bros., Inc., Simsbury |
| 6204 | Lee Hydrated Lime | Cullman Bros., Inc., Simsbury |
| 6223 | Calcic Lime | Cullman Bros., Inc., Simsbury |
| 4819 | Amlico Land Lime | Griffin-Fuller Tobacco Co., Hartford.... |
| 6147 | Land Plaster | Hatheway-Steane Corp., Hartford |
| 6148 | Land Plaster | Hatheway-Steane Corp., Hartford |
| 6149 | Land Plaster | Hatheway-Steane Corp., Hartford |
| 6184 | Land Plaster | Hatheway-Steane Corp., Hartford |
| 4021 | "Star Dust" | F. Mansfield & Sons Co., New Haven |
| 4022 | Pulverized Lime | Adamant Plaster Co., New Haven |
| 6797 | Land Plaster | A. N. Shepard & Son, Hartford |
| 6800 | Hydrated Lime | A. N. Shepard & Son, Hartford |
| 5625 | Hydrated Lime, No. 6 P | Silberman & Kahn, Hartford |
| 5626 | Hydrated Lime, No. 18 Hu | Silberman & Kahn, Hartford |
| 6746 | Ground Limestone | Soil Conservation Service, Rockville |

| Chemical analysis | | | | Total oxides | Mechanical analysis | | Station No. |
|-------------------|------------|----------------|------------|-----------------|---------------------|-------------|----------------|
| Lime (CaO) | | Magnesia (MgO) | | | 20 mesh | 100 mesh | |
| Found | Guaranteed | Found | Guaranteed | | | | |
| % | % | % | % | % | % | % | |
| 30.52 | 30.50 | 20.98 | 20.50 | 51.50 | 100.0 | ..... | 5547 |
| 30.54 | ..... | 21.00 | ..... | 51.54 | 100.0 | ..... | 5548 |
| 30.61 | ..... | 21.26 | ..... | 51.87 | 100.0 | 21.8 | 7130 |
| 30.85 | ..... | 21.65 | ..... | 52.50 | 100.0 | 58.0 | 7131 |
| 33.55 | ..... | 0.30 | ..... | 33.85 | ..... | ..... | 5632 |
| 33.61 | ..... | 0.14 | ..... | 33.75 | ..... | ..... | 5666 |
| 72.41 | 70.00 | 0.72 | 0.50 | 73.13 | ..... | ..... | 6160 |
| 41.85 | 47.00 | 29.37 | 31.00 | 71.22 | ..... | ..... | 6161 |
| 46.87 | 47.00 | 33.14 | 31.00 | 80.01 | ..... | ..... | 6165 |
| 72.29 | 70.00 | 0.88 | 0.50 | 73.17 | ..... | ..... | 6203 |
| 46.44 | 47.00 | 32.59 | 31.00 | 79.03 | ..... | ..... | 6204 |
| 72.19 | 70.00 | 0.94 | 0.50 | 73.13 | ..... | ..... | 6223 |
| 30.44 | ..... | 18.83 | ..... | 49.27 | ..... | ..... | 4819 |
| 33.36 | ..... | 0.18 | ..... | 33.54 | ..... | ..... | 6147 |
| 33.61 | ..... | 0.12 | ..... | 33.73 | ..... | ..... | 6148 |
| 33.50 | ..... | 0.11 | ..... | 33.61 | ..... | ..... | 6149 |
| 33.59 | ..... | 0.27 | ..... | 33.86 | ..... | ..... | 6184 |
| 84.17 | ..... | 8.66 | ..... | 92.83 | ..... | ..... | 4021 |
| 93.44 | ..... | 0.91 | ..... | 94.35 | ..... | ..... | 4022 |
| 36.62 | ..... | 9.58 | ..... | 46.20 | ..... | ..... | 6797 |
| 44.69 | ..... | 31.67 | ..... | 76.36 | ..... | ..... | 6800 |
| 46.19 | ..... | 32.15 | ..... | 78.34 | ..... | ..... | 5625 |
| 46.46 | ..... | 32.28 | ..... | 78.74 | ..... | ..... | 5626 |
| 43.54 | 35.00 | 10.21 | 10.00 | 53.75 | 100.0 | 94.5 | 6736 |

TABLE 12. ANALYSES OF MISCELLANEOUS MATERIALS

| Station No. | Material | Moisture | Ash | Organic and volatile | Nitrogen | Phosphoric acid | Potash |
|-------------|--|----------|--------------------|----------------------|-------------------|-------------------|--------|
| | | % | % | % | % | % | % |
| 4959 | Vegetable waste or compost | 45.70 | 19.74 | 34.56 | 1.31 | 0.46 | 0.98 |
| 4936 | Peat (dry) ..... | ..... | ..... | ..... | 0.41 | 0.68 | 0.60 |
| 6737 | Peat Moss | 62.50 | 8.99 | 28.51 | 0.59 | ..... | ..... |
| 5627 | American Peat Moss (dry) ..... | ..... | 3.69 | 96.31 | 2.16 | ..... | ..... |
| 6294 | Sewage sludge, processed | 18.93 | 29.67 | 51.40 | 2.21 | 2.45 | 0.06 |
| 6547 | Sewage sludge (Milford plant) (dry) ..... | ..... | 74.51 | 25.49 | 1.62 | 1.81 | 0.12 |
| 6713 | Sewage sludge, activated (Milford plant) | 95.74 | 2.09 | 2.17 | 0.13 | ..... | ..... |
| 6714 | Sewage sludge, activated (Milford plant) (dry) ..... | ..... | 46.62 | 53.38 | 2.98 ² | 2.79 | 0.13 |
| 6715 | Sewage sludge, activated (Milford plant) | 98.39 | 0.36 | 1.25 | 0.10 | ..... | ..... |
| 7232 | Sewage sludge, Fairfield State Hospital | 37.30 | 42.82 | 19.88 | 1.17 | 0.58 | 0.12 |
| 3813 | Sewage sludge (Danbury plant) | 29.70 | 38.14 | 32.16 | 2.17 | 1.57 | 0.19 |
| 5812 | Hen manure (dry) ..... | ..... | ..... | ..... | 2.84 | 2.30 | ..... |
| 5391 | Hen manure | 51.90 | ..... | ..... | 1.83 | 1.88 | 1.04 |
| 5573 | Hen manure + peat moss (equal parts) (dry) ..... | ..... | ..... | ..... | 2.81 | 2.35 ³ | 0.40 |
| 4626 | Cow manure | 42.80 | 38.48 | 18.72 | 1.05 | 0.56 | 0.18 |
| 5397 | Tobacco, fine ground (dry) ..... | ..... | ..... | ..... | 0.84 | 0.60 | 1.16 |
| 5398 | Tobacco, coarse ground (dry) ..... | ..... | ..... | ..... | 1.40 | 0.75 | 5.15 |
| 5893 | Tobacco stems (dry) ..... | ..... | ..... | ..... | 2.46 | ..... | 7.83 |
| 6101 | Tobacco stems | 16.00 | ..... | ..... | 3.03 | 0.77 | 5.91 |
| 7265 | Tobacco dust ⁴ ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 7287 | Tobacco stems ⁵ ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 4875 | Ashes from pitch pine, Pine Grove, Niantic ..... | ..... | ..... | ..... | ..... | ..... | 6.43 |
| 6295 | Cacao bean by-products (dry) ..... | ..... | 8.37 | ..... | 4.08 ⁸ | 2.29 | 2.31 |
| 5744 | Cacao waste (dry) ..... | ..... | ..... | ..... | 2.50 | 1.70 | 0.40 |
| 4935 | Ground press cake from infertile eggs after oil is extracted for tanning | 0.70 | 92.35 ⁹ | 6.95 ¹¹ | 1.28 | 0.63 | 0.29 |
| 7185 | Apple pulp (pomace) | 51.05 | 4.28 | 44.67 | 1.85 | 0.25 | 0.05 |

¹CaO 9.17%.²Water-soluble organic nitrogen 0.46%.³'Available' P₂O₅ 2.15%.⁴Chlorine 0.10%.⁵Chlorine 1.20%.⁶Nicotine 0.78%.⁷Nicotine 1.01%.⁸Water-insoluble organic nitrogen 3.16%; activity 36%; CaO 1.22%; MgO 0.81%.⁹CaO 50.18%.¹⁰Fat 0.52%.

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| Sawco Bone 2-47-24.00% | 10, 16, 27 |
| Sawco Emerald Grass Fertilizer 5-7-3 | 10, 40 |
| Sawco General Garden Fertilizer 5-10-5 | 10, 40 |
| Sawco Pulverized Sheep Manure 2-1-2 | 10, 18, 47 |
| Sulfate of ammonia, analyses of | 19 |
| Summers Fertilizer Co., Inc., Baltimore, Md. | |
| Summers "Best on Earth" Brand 3-10-6 | 10, 40 |
| Summers "Best on Earth" Brand 4-8-4 | 10, 40 |
| Summers "Best on Earth" Brand 4-8-10 | 10, 40 |
| Summers "Best on Earth" Brand 5-8-7 | 10, 40 |
| Summers "Best on Earth" Brand Goat Manure | 10, 18, 47 |
| Summers "Best on Earth" 16% Superphosphate | 10, 15, 22 |
| Summers "Best on Earth" Superphosphate 20% | 11, 15, 22 |

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| Summers "Best on Earth" 40% Superphosphate | 11 |
| Summers "Best on Earth" Tankage 7% — Processed | 11, 16, 25 |
| Superphosphate (acid phosphate) | 15 |
| analyses of | 21 |
| Swift & Co., Fertilizer Works, Baltimore, Md. | |
| Bone Meal Fertilizer | 11, 16, 27 |
| Roselawn 5-8-7 | 11, 40 |
| Swift's Sheep Manure 1.85-1-1.75 | 11, 18, 47 |
| Swift's Special Golf Fertilizer 6-12-4 | 11, 40 |
| Swift's Special Golf Fertilizer 12-6-4 | 11 |
| Vigoro 4-12-4 | 11, 40 |
| Synthetic Nitrogen Products Corp., 285 Madison Ave., New York, N. Y. | |
| Calcium Nitrate (Nitrate of Lime) | 11, 19 |
| Nitrophoska 15-30-15 | 11 |
| Tankage | 16 |
| analyses of | 25 |
| Tennessee Corp., Lockland, Ohio | |
| Loma (5-10-4) | 11, 40 |
| Soil-Prep (4-2-2) | 11, 40 |
| I. P. Thomas & Son Co., 721 Market St., Camden, N. J. | |
| I. P. Thomas 3-10-6 | 11, 40 |
| I. P. Thomas 5-8-7 | 11, 40 |
| Uramon, analyses of | 19 |
| Urea, analyses of | 19 |
| Walker-Gordon Laboratory Co., Inc., Plainsboro, N. J. | |
| Bovung | 11, 18, 47 |
| Thomas Wood & Sons, Inc., 12-14 Midland Ave., Montclair, N. J. | |
| Woodgro Pure Cow Manure Dehydrated | 11 |
| F. H. Woodruff & Sons, Inc., Milford, Conn. | |
| Gro-Sod Lawn Food 10-6-4 | 10, 40 |
| Woodruff Fertilizer Works, Inc., Orange, Conn. | |
| Woodruff's Big Crop Fertilizer 5-8-7 | 11, 40 |
| Woodruff's Corn Fertilizer 4-16-4 | 11, 40 |
| Woodruff's 3-10-6 Fertilizer | 11, 40 |
| Woodruff's 8-16-16 Fertilizer | 11, 40 |
| Woodruff's Superphosphate 16% | 11, 15, 22 |
| Woodruff's Superphosphate 20% | 11, 15, 22 |
| Woodruff's Top Dresser 7-6-6 | 11, 40 |
| Woodruff's Yankee Special Fertilizer 5-10-5 | 11, 40 |