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COMMERCIAL FERTILIZERS

Report for 1954



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THE CONNECTICUT AGRICULTURAL EXPERIMENT
STATION, NEW HAVEN, CONNECTICUT

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purchasers report their sales or purchases to this Station. The information is not for publication but is used to inform manufacturers of the total sales of their meal as fertilizer in this state. It is expected that the fees provided for by statute will be paid by the manufacturer or other party responsible for the brands.

Official Definitions of Fertilizer Terms and Materials

It is expected that fertilizers sold in this state will comply with the regulations and standards of the Association of American Fertilizer Control Officials. A copy of the "Official Publication" of that Association giving these definitions and regulations may be obtained from the secretary-treasurer, B. D. Cloaninger, Drawer 392, Clemson, South Carolina, for \$2.00.

REGISTRATIONS

Late Registrations for 1953

To the brands registered for 1953 in our last report should be added the following:

Archer-Daniels-Midland Co., 600 Baker Bldg., Minneapolis, Minn.

Archer Quality 44% Protein Solvent Extracted Soybean Oil Meal
(for fertilizer purposes)

The Drackett Products Co., 5020 Spring Grove Ave., Cincinnati 32, Ohio

Drackett 44% Protein Soybean Oil Meal

Registrations for 1954

For 1954, 83 firms and individuals registered 385 brands of fertilizer at this Station for sale in the State. As required by statute, the brands are listed as follows:

Agricultural Products Co., Waits Corner Rd., West Kingston, R. I.

Apco Organic Lawn Food

Agricultural Supply Co., 221 Richmond Ave., West Haven, Conn.

Yale Special Mixture

Ted Alkire, P. O. Box 1468, Lubbock, Texas

Kireal Cotton Hull Ash

E. T. Allen Co., P. O. Box 951, Atlanta 1, Ga.

Empire 41% Cottonseed Meal—Prime Quality

The American Agricultural Chemical Co., 285 River St., North Weymouth, Mass.

AA Quality Fertilizer 0-10-20

AA Quality Fertilizer 0-14-14

AA Quality Fertilizer 0-15-30

AA Quality Fertilizer 0-20-20

AA Quality Fertilizer 5-8-7

AA Quality Fertilizer 5-10-10

AA Quality Fertilizer 7-7-7

AA Quality Fertilizer 8-16-16

AA Quality Phosphate Rock

AgriCo Country Club Fertilizer 6-10-4

The American Agricultural Chemical Co., 285 River St., North Weymouth, Mass.—Cont.

Agrico Country Club Fertilizer 8-6-4
 Agrico Country Club Fertilizer 10-6-4
 Agrico for Broadleaf Evergreens 6-10-4
 Agrico for Corn 4-12-4
 Agrico for Gardens 5-10-5
 Agrico for Lawns, Trees and Shrubs 6-10-4
 Agrico for New England 5-8-7-1.2
 Agrico for Potatoes 5-10-10-1.2
 Agrico for Seeding Down 3-12-12
 Agrico for Tobacco 6-3-6
 Agrico for Top Dressing 7-7-7
 Agrico for Top Dressing 10-10-10
 Agrico for Truck 5-10-5
 Agrico for Turf 6-8-2
 Agrico Phosphate and Potash 0-10-20
 Agrico Phosphate and Potash 0-14-14
 Agrico Rose Food 5-9-6
 Agrinite
 Bone Meal
 20% Granular Superphosphate
 Muriate of Potash
 18% Normal Superphosphate
 Pulverized Sheep Manure

American Cyanamid Co., 30 Rockefeller Plaza, New York 20, N. Y.

AERO Cyanamid, Granular
 AERO Cyanamid, Special Grade
 AERO-PHOS Florida Natural Phosphate (31% Total)
 AERO-PHOS Florida Natural Phosphate (33% Total)
 AEROPRILLS Fertilizer Grade Ammonium Nitrate
 Garden Cyanamid

Apothecaries Hall Co., 28 Benedict St., Waterbury, Conn.

Bone Meal 2.25
 Castor Pomace
 Cotton Hull Ashes
 Dry Ground Fish
 Green-Gro Acid Fertilizer 8-5-5
 Green-Gro Fertilizer Mixture 6-7-4
 Green-Gro Home Garden Fertilizer 5-8-7
 Green-Gro Rose Food 5-7-6
 Horn & Hoof Meal
 Liberty Fertilizer 0-10-20
 Liberty Fertilizer 0-14-14
 Liberty Fertilizer 0-20-20
 Liberty Fertilizer 3-12-12
 Liberty Fertilizer 4-12-4
 Liberty Fertilizer 5-10-5
 Liberty Fertilizer 5-10-10
 Liberty Fertilizer 5-10-10 with 1.2% Magnesium
 Liberty Fertilizer 6-8-8
 Liberty Fertilizer 6-8-8 with 1.2% Magnesium
 Liberty Fertilizer 8-8-8
 Liberty Fertilizer 8-16-16
 Liberty Fertilizer with Sulphate of Potash 6-8-8
 Liberty Green-Gro Fertilizer 6-7-4
 Liberty High Grade Market Gardeners 5-8-7
 Liberty High Grade Market Gardeners with Sulphate of Potash 5-8-7
 Liberty Landscape and Golf Course 8-6-2
 Liberty Special For Fruit and Grass 7-7-7
 Liberty Super Spud Special Potato Fertilizer 6-8-8 with 1.2% Magnesium
 Liberty Tobacco Mixture 5-3-5
 Liberty Tobacco Mixture 6-3-6
 Liberty Tobacco Mixture with Castor Pomace 6-3-6

Apothecaries Hall Co., 28 Benedict St., Waterbury, Conn.—Cont.

Liberty Tobacco Mixture with Cottonhull Ashes 6-3-6
 Liberty Tobacco Starter 4-10-0
 Liberty Tobacco Starter 5-5-15
 Muriate of Potash
 Precipitated Bone 38%
 Precipitated Bone 42%
 Refined Borax Agricultural Mesh
 Sheep Manure
 Sulphate of Ammonia
 Sulphate of Potash
 Sul-Po-Mag
 Superphosphate 20%

Archer-Daniels-Midland Co., 600 Roanoke Bldg., Minneapolis, Minn.

Archer Quality 36% Protein Extracted Linseed Oil Meal (Fertilizer)

Armour Fertilizer Works, Box J, Carteret, N. J.

Armour's All Organic
 Armour's Big Crop Fertilizer 0-20-20
 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 10-10-10
 Armour's Big Crop Superphosphate 20%
 Armour's Bone Meal
 Armour's Gold Bond Tobacco Grower 6-3-6
 Armour's Pulverized Sheep Manure
 Armour's Vertagreen Plant Food 5-10-5
 Armour's Vertagreen Plant Food for Commercial Crops 6-12-6
 Armour's Vertagreen Plant Food for Commercial Crops 6-12-12
 Armour's Vertagreen Plant Food for Commercial Crops 8-8-8
 Armour's Vertagreen Plant Food for Professional Use 10-6-4

Ashcraft-Wilkinson Co., 601 Trust Co. of Georgia Bldg., Atlanta 3, Ga.

Cow-Eta Brand 36% Protein Cottonseed Meal
 Cow-Eta Brand 41% Protein Cottonseed Meal Prime Quality

Associated Seed Growers, Inc., Railroad Ave., Milford, Conn.

Asgrow Lawn Food
 Japedizer

Atkins & Durbrow, Inc., 165 John St., New York 38, N. Y.

A & D DRICONURE

H. J. Baker & Bro., 600 Fifth Ave., New York 20, N. Y.

MONTANSALPETER (Ammonium Sulphate Nitrate)
 Nitroganic

The F. A. Bartlett Tree Expert Co., 60 Canal St., Stamford, Conn.

Bartlett Green Tree Food

The Boswell Co., 171 Blackland Rd., N. W., Atlanta, Ga.

Pure Gold Brand 41% Protein Cottonseed Meal—Prime Quality

Bradley & Baker, 155 E. 44th St., New York, N. Y.

Nitrolime (Ammonium Nitrate Limestone)

Brainard Nursery & Seed Co., 636 Enfield St., Thompsonville, Conn.

Aluminum Sulphate—Braco Brand

Joseph Breck & Sons Corp., 401 Summer St., Boston 10, Mass.

Breck's Quick-Life
Brexone Garden-Gro
Brexone Turf-Gro

The Buckeye Cotton Oil Co., 6th & Main Sts., Cincinnati, Ohio
Buckeye 41% Protein Cottonseed Meal for Fertilizer

California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.
ORTHO Lawn Groom

Carac Floral Co., Inc., 2875 Milburn Ave., Baldwin, L. I., N. Y.
Carac

Carbola Chemical Co., Inc., Natural Bridge, N. Y.
CCC Triple-20 Plant Food

Chilean Nitrate Sales Corp., 120 Broadway, New York 5, N. Y.
Chilean Nitrate of Soda - Champion Brand

Consolidated Rendering Co., 178 Atlantic Ave., Boston 10, Mass.

Corenco 0-10-20 Hay and Pasture Special
Corenco 0-14-14 Top Dresser
Corenco 0-20-20 Legume Special
Corenco 4-12-4 Complete Manure
Corenco 4-12-16 Ladino Special
Corenco 5-5-15 Tobacco Starter
Corenco 5-8-7 Potato and General Crop
Corenco 5-10-5 Home Garden
Corenco 5-10-5 Onion Special-Super Truck
Corenco 5-10-10 Peerless Potato
Corenco 6-3-6 Perfection Tobacco Grower
Corenco 6-3-6 Premium Tobacco Grower
Corenco 6-8-8 Potato Special
Corenco 6-8-8 Potato Special with 1.2% Magnesium
Corenco 7-7-7 Complete Fruit and Top Dressing
Corenco 8-6-4 Landscape
Corenco 8-16-16 Two-in-One
Corenco 10-10-10
Corenco Dried Cow Manure
Corenco Granular Superphosphate 20%
Corenco Ground Bone
Corenco Ground Phosphate Rock
Corenco Organic Turf Fertilizer
Corenco Sheep Manure
Corenco Spurz-on
Corenco Superphosphate 20%
Muriate of Potash
Sulphate of Ammonia

The Davey Tree Expert Co., 117 So. Water St., Kent, Ohio
Davey Shredded Cattle Manure
Davey Tree Food

R. G. Davis & Sons, Inc., 560 Grand Ave., New Haven, Conn.
"Organo"

The Davison Chemical Corp., 101 North Charles St., Baltimore 3, Md.

Davco Granulated Fertilizer 0-10-20
Davco Granulated Fertilizer 4-12-16
Davco Granulated Fertilizer 5-10-5
Davco Granulated Fertilizer 5-10-10
Davco Granulated Fertilizer 6-8-8 with 0.10% Boron and 0.27% Manganese

The Davison Chemical Corp., 101 North Charles St., Baltimore 3, Md.—Cont.

Davco Granulated Fertilizer 8-16-16
 Davco Granulated Fertilizer 10-10-10
 Davco Granulated Superphosphate 20%

The Doggett-Pfeil Co., 681 Morris Turnpike, Springfield, N. J.

D & P Rose Food

E. I. du Pont de Nemours & Co., Inc., Wilmington 98, Del.

DU PONT NU GREEN Fertilizer Compound
 DU PONT Soluble Plant Food

Durham Soil Builders, Cherry Lane, Durham, Conn.

Chiguano

Eastern State Farmers' Exchange, Inc., 26 Central St., West Springfield, Mass.

Eastern States 0-15-30
 Eastern States 0-20-20
 Eastern States 5-10-10-0.6
 Eastern States 5-15-15-0.6
 Eastern States 8-4-8-1.2 Tobacco
 Eastern States 8-12-12-1.2 L. C. S.
 Eastern States 8-12-12-1.2 S.M.
 Eastern States 8-12-16-1.2
 Eastern States 8-16-16-0.6
 Eastern States 10-10-10-0.6
 Eastern States Castor Pomace
 Eastern States Muriate of Potash
 Eastern States Plant Starter 64
 Eastern States Sulfate of Potash
 Eastern States Superphosphate — Granulated and Pulverized

The Espoma Co., P. O. Box 108, Millville, N. J.

Espoma
 Espoma Rose Food
 Holly-Tone

Faesy & Besthoff, Inc., 325 Spring St., New York 13, N. Y.

F & B Broadleaf High Organic 6-10-4
 F & B Pure Bone Meal
 F & B Rose Food 8-10-4
 F & B 15-30-15 Starter Grower All-Purpose

Ferro Corp., 4150 E. 56th St., Cleveland, Ohio

Agricultural F. T. E. (Fritted Trace Element)
 Agricultural F. T. E. Manganese "40"
 F. T. E. (Fritted Trace Element)

Fertilene Corp. of America, 251 Central Park West, New York, N. Y.

Fertilene Complete Liquid Fertilizer

Fiestar, Inc., 39 Planting Field Rd., (Nassau) Roslyn Heights, New York

Fiestar

Ford Motor Co., 3000 Schaefer Rd., Dearborn, Mich.

Ford Ammonium Sulphate

Fox Point Chemical Co., 49 Valley St., East Providence, R. I.

Old Fox Brand 0-12-24
 Old Fox Brand 0-20-0
 Old Fox Brand 0-20-20-.24% Boron
 Old Fox Brand 4-16-20
 Old Fox Brand 5-8-7

Fox Point Chemical Co., 49 Valley St., East Providence, R. I.—Cont.

Old Fox Brand 5-10-10-0.6% Mg.
 Old Fox Brand 5-10-10-1.2
 Old Fox Brand 7-7-7
 Old Fox Brand 10-6-2
 Old Fox Brand Bone Meal
 Old Fox Brand Garden Food 5-10-5
 Old Fox Brand Organo 5% Organic Nitrogen
 Old Fox Brand Sulphate of Ammonia
 Old Fox Turf Brand Food 8-6-2

Goldenrod Oil Meal Sales Co., 727 Beale Ave., P. O. Box 152, Memphis 1, Tenn.
Goldenrod Brand 41% Protein Cottonseed Meal**Goulard & Olena, Inc., Skillman, N. J.**

G & O Ground Bone Fertilizer
 G & O Prizegro 5-10-5
 G & O Rose Food
 Tankage — Blood

Heller Greenhouse Laboratories, 218 E. Pikes Peak Ave., Colorado Springs, Col.
Heller-Gro**A. H. Hoffman, Inc., Landisville, Lancaster County, Pa.**

Hoffman Cow Manure (Dehydrated)
 Hoffman Sheep Manure (Kiln Dried)

Humphreys-Godwin Co., 2246 Park Ave., Memphis, Tenn.

Danish Brand 36% Cottonseed Meal
 Dixie Brand 41% Cottonseed Meal

Spencer Kellogg & Sons, Inc., 98 Delaware Ave., Buffalo 2, N. Y.

Castor Pomace
 Spencer Kellogg's 32% Protein Old Process (Expeller) Linseed Oil Meal
 Spencer Kellogg's 44% Protein Toasted Soybean Oil Meal — Solvent Extracted

Kind & Knox Gelatin Co., Camden, N. J.

Dicalcium Phosphate Precipitated Bone Phosphate

Lebanon Chemical Corp., Box 532, Lebanon, Pa.

Farmrite Gardenrite
 Farmrite Hi-Organic
 Farmrite Sheep Manure
 Farmrite 20% Superphosphate
 Farmrite Turf-Organic
 Gardenrite 5-10-5 (Iron, 0.02; Copper, 0.06; Boron, 0.028; Zinc, 0.06;
 Manganese, 0.05; Magnesium, 0.05.)
 Lebanon Cow Manure
 Lebanon Fertilizer 5-10-10
 Lebanon Fertilizer 10-6-4

L. B. Lovitt & Co., 314 Cotton Exchange Bldg., Memphis, Tenn.

"Lovit Brand" 36% Protein Cottonseed Meal — Prime Quality
 "Lovit Brand" 41% Protein Cottonseed Meal — Prime Quality

McArdle's Seed Co., 388 Greenwich Ave., Greenwich, Conn.

McArdle's Hi-Organic 10-6-4

McCormick & Co., Inc., McCormick Bldg., Baltimore 2, Md.

Hy-Gro
 Orchid Hy-Gro

The Mamlon Co., 1089 Whalley Ave., New Haven 15, Conn.

FER-MEL General Purpose Plant Food
 FER-MEL Water Soluble Turf and Tree Food

Marianna Sales Co., 510 Cotton Exchange Bldg., Memphis, Tenn.

"WHITE MULE BRAND" 41% Protein Cottonseed Meal

Monsanto Chemical Co., 1700 So. 2nd St., St. Louis, Mo.

Folium

"Na-Churs" Plant Food Co., 421 Monroe St., Marion, Ohio

"Na-Churs" Liquid Fertilizer 7-14-7

Natural Plant Foods Co., 210 W. California St., Oklahoma City, Okla.

Ramshorn Brand Sheep Manure

Nitrogen Division, Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.

A-N-L Fertilizer Compound

"Arcadian" Nitrate of Soda

"Arcadian" Urea Fertilizer Compound

Sulphate of Ammonia

Old Deerfield Fertilizer Co., Inc., 20 Sugarloaf St., South Deerfield, Mass.

"Bantle's Special" 6-3-6 Complete Tobacco Fertilizer

Nitrate of Potash (Potnit)

Old Deerfield Castor Pomace

Old Deerfield Cotton Hull Ash 35%

Old Deerfield Cottonseed Meal 41%

Old Deerfield 5-8-7 Fertilizer

Old Deerfield 5-10-10 Potato

Old Deerfield 6-3-6 Complete Tobacco

Old Deerfield 6-4-7 Hi-Grade Complete Tobacco

Old Deerfield 6-8-8 Special Potato

Old Deerfield 7-7-7 Fertilizer

Olds & Whipple, Inc., 168 State St., Hartford, Conn.

Muriate of Potash

O & W Bone Meal

O & W Castor Pomace

O & W Cotton Hull Ash

O & W Menhaden Dry Ground Fish

O & W Sulphate of Potash

O & W Superphosphate

O & W Triple Superphosphate 47%

O & W 0-14-14 Fertilizer

O & W 0-20-20 Fertilizer

O & W 4-8-4 Complete Lawn and Grass Fertilizer

O & W 4-12-4 Market Garden Fertilizer

O & W 5-3-5 Complete Tobacco Fertilizer-Potash derived from Cotton Hull Ash

O & W 5-5-15 High Grade Tobacco Starter

O & W 5-8-6 Luxura

O & W 5-8-7 Potato and General Purpose Fertilizer

O & W 5-10-5 Fertilizer

O & W 5-10-10 Potato Fertilizer

O & W 5-10-10 Potato Fertilizer with 1.2% Magnesium

O & W 6-3-6 Blue Label Tobacco Fertilizer-Potash derived from Cotton Hull Ash

O & W 6-3-6 Pomace Base Fertilizer-Potash derived from Cotton Hull Ash

O & W 6-8-8 Special Potato Fertilizer

O & W 6-8-8 Special Potato Fertilizer with 1.2 magnesium

O & W 7-7-7 Top Dressing and Grass Fertilizer

O & W 8-12-12 High Grade General Purpose Fertilizer with 1.8 magnesium

Precipitated Bone Phosphate

Sheep Manure

Sulphate of Potash and Magnesia

Plant Products Corp., Blue Point, L. I., New York

Plant Prod "20"

The Frank S. Platt Co., 484 State St., New Haven, Conn.
Platt's Concentrated 10-5-5 Lawn Fertilizer

Premier Peat Moss Corp., 535 Fifth Ave., New York, N. Y.
Premier-Nure

Ra-Pid-Gro Corp., 88 Ossian St., Dansville, N. Y.
Ra-Pid-Gro

The Rogers & Hubbard Co., Bank St., Portland, Conn.

Gro-Fast Acid Fertilizer
Gro-Fast All Organic Fertilizer
Gro-Fast Aluminum Sulphate
Gro-Fast Bone Meal
Gro-Fast Cow Manure
Gro-Fast Plant Food
Gro-Fast Rose Food
Gro-Fast Sheep Manure
Gro-Fast SOL Water Soluble Concentrate
Hubbard Alfalfa Fertilizer 0-14-14
Hubbard Alfalfa Fertilizer 0-14-14 W/0.55 Boron
Hubbard Castor Pomace
Hubbard Climax Tobacco Fertilizer
Hubbard Corn Fertilizer
Hubbard Dairy Fertilizer
Hubbard Double Strength Fertilizer
Hubbard Garden Fertilizer
Hubbard General Crop Fertilizer
Hubbard General Crop Fertilizer with Magnesium
Hubbard Golf Course Fertilizer 8-6-2
Hubbard Golf Course Fertilizer 10-6-4
Hubbard High Potash Fertilizer 5-10-10
Hubbard High Potash Fertilizer 5-10-10 with 1.2 Magnesium
Hubbard Hi-Top Fertilizer
Hubbard Muriate of Potash
Hubbard Potato Fertilizer
Hubbard Seeding Fertilizer
Hubbard Superphosphate
Hubbard Tobacco Grower
Hubbard Top Dressing Fertilizer
Hubbard Top Dressing Fertilizer with Magnesium
Hubbard Valley Brand
Hubbard Vegetable Fertilizer
Hubbard Weed-Kil Lawn Food (Contains 2, 4-D)
Sulphate of Ammonia

Rose Manufacturing Co., 445 Main St., Beacon, N. Y.
Tri-Ogen Rose Food

Ruhm Phosphate & Chemical Co., P. O. Box 361, Columbia, Tenn.
Red Seal Brand Ruhm's Phosphate Rock

O. M. Scott & Sons Co., Marysville, Ohio
Scott's Turf Builder
Scott's Weed and Feed

Sears, Roebuck & Co., 925 South Homan Ave., Chicago 7, Ill.

Cross Country Azalea Food
Cross Country Bone Meal
Cross Country Bulb Food
Cross Country Cattle Manure
Cross Country Economy Fertilizer
Cross Country Evergreen Food
Cross Country Hi-Organic

Sears, Roebuck & Co., 925 South Homan Ave., Chicago 7, Ill.—Cont.

Cross Country Lawn Food
 Cross Country Lawn Food and Weed Killer
 Cross Country Plant Food
 Cross Country Rose Food
 Cross Country Sheep Manure
 Cross Country Sulphate of Ammonia
 Cross Country Wat-R-Mix

Sewerage Commission of the City of Milwaukee, P. O. Box 2079, Milwaukee 1, Wis.
Milorganite**Sherwin-Williams Co., 101 Prospect Ave. N.W., Cleveland, Ohio**
Sherwin-Williams 34% Linseed Oil Meal**M. L. Shoemaker, Inc., Div. of Wilson & Co., Inc., Delaware Ave. & Venango St., Philadelphia 34, Pa.**

M. L. Shoemaker's Fertilizer Bone (Fine Ground)
 M. L. Shoemaker's "Swift-Sure" Tobacco Starter

Smith Equipment & Supply Co., 1615 N. Central Ave., Chicago 39, Ill.
Fertil-Ade (Liquid)**Soil Builders International Corp., 33 West 42nd St., New York 36, N. Y.**
Glorion**Soil-Tone Corp., P. O. Box 218, Plymouth, N. C.**
Acid Fertilium
Fertilium**Wendell S. Still, Middle Country Rd., Selden, L. I., N. Y.**
Farmanure**Swift & Co., Plant Food Div., 25 Faneuil Hall Sq., Boston 9, Mass.**

All Organic Lawn Food
 Blenn
 Brimm
 Instant Vigoro
 Pasturgro 2-12-12
 Pasturgro 5-10-10
 Red Steer 0-20-20
 Red Steer 5-8-7
 Red Steer 5-10-10
 Red Steer 8-16-16
 Red Steer 10-10-10
 Red Steer Superphosphate
 Sheep Manure
 Swift's 41% Protein Cottonseed Meal — Prime Quality
 Swift's Special Golf Plant Food
 Vigoro 5-10-5
 Vigoro 6-10-4
 Vigoro C. G.

Uni-Commercial, Inc., 70 Pine St., New York 5, N. Y.
"UNICO" Brand 41% Protein Cottonseed Meal**Valley Feed & Supply Co., Inc., Union Rd., Spring Valley, N. Y.**
Adorna**The Veritas Co., Inc., Broad St., Medway, Mass.**
Fertilium

Virginia-Carolina Chemical Corp., 401 E. Main St., Richmond, Va.
Sterilized Ground Tobacco Stems

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

Oscar F. Warner, 24 E. Aurora St., Waterbury, Conn.
Warner's Grubedizer
Warner's Lawn Fertilizer
Warner's Tree Food

Garfield Williamson, Inc., 1072 Westside Ave., Jersey City, N. J.
Plantspur

F. H. Woodruff & Sons, Inc., 9 Depot St., Milford, Conn.
Gro-Sod Lawn Food

Woodruff Fertilizer Works, Inc., Sackett Point Rd., North Haven, Conn.
Woodruff's 0-14-14 Fertilizer
Woodruff's 5-8-7 Fertilizer
Woodruff's 5-10-5 Fertilizer
Woodruff's 5-10-10 Fertilizer
Woodruff's 7-7-7 Fertilizer
Woodruff's Lawn & Tree Food
Woodruff's Muriate of Potash 60%
Woodruff's Superphosphate 20%
Woodruff's Tobacco Fertilizer

FERTILIZER INSPECTION FOR 1954

The Connecticut fertilizer law does not provide for compulsory limitation of the grades of fertilizer that may be sold in this State. It has in fact been the belief of this Station that no farmer should be prevented from purchasing any grade of fertilizer he wished, no matter how low in plant food units it might be or how ill adapted to the needs of his crops, so long as he made the purchase with his eyes open. However, since all authorities are agreed that a small number of grades can take care of all the needs of agriculture and that standardization on a few grades will promote economy in the manufacture of fertilizers and so help to keep prices down, for some years the New England agronomists have compiled lists of recommended fertilizer ratios and minimum grades.

On October 7, 1952 the agronomists and fertilizer dealers of southern New England met at Storrs and agreed upon the following list for the 1952-1953 season:

<i>Ratio</i>	<i>Minimum Grade</i>
0-1-1	0-14-14
0-1-2	0-10-20
1-1-1	8- 8- 8
1-1-3	5- 5-15 (Tobacco fertilizer)
1-2-1	5-10- 5
1-2-2	5-10-10
2-1-2	6- 3- 6 (Tobacco fertilizer)
3-4-4	6- 8- 8
4-3-1	8- 6- 2 (For maintenance of established turf)
5-8-7	5- 8- 7

This list was not changed for the 1953-54 season.

That most Connecticut farmers realize the desirability of using recommended grades is shown by the fact that 82 per cent of the mixed fertilizers sold during both the 1952-1953 and 1953-1954 seasons were of the recommended ratios and minimum grades. Another 5 per cent was accounted for this year by a fertilizer of a recommended ratio but just under the recommended minimum grade, namely, the 7-7-7.

During the past season the Station agent collected samples of all registered brands that could be found on the market. Certain fertilizer materials, particularly vegetable meals, are purchased almost wholly by tobacco growers for direct shipment in carload lots from outside the State. Most tobacco growers submit unofficial samples from each carload for analysis by this Station, but in addition an attempt has been made by our agent to take official samples from as many of these shipments as possible. The total number of fertilizer samples of all kinds analyzed in 1954 was 842—97 more than in 1953.

The following tabulation lists the total number of samples analyzed (both official and unofficial) of each class of fertilizer, as well as the tonnage sold in the period between July 1, 1953 and June 30, 1954 (these tonnage figures do not include fertilizer distributed under the Federal Agricultural Adjustment Program):

CLASSIFICATION OF FERTILIZER MATERIALS AND FERTILIZER TONNAGE

(Tonnage is for the period July 1, 1953 to June 30, 1954)

	Page	No. of samples	Tonnage	
I. Containing chiefly nitrogen:				
Nitrate of ammonia	20	3	584	
Nitrate of soda	20	7	726	
Sulphate of ammonia	20	5	36	
Cyanamid and urea	20	5	143	
Castor pomace	21	9	4,180	
Cottonseed meal	21	106	6,928	
Horn and hoof meal	22	3	52	
Linseed oil meal	22	13	548	
Soybean oil meal	22	4	219	
Tankage		1		
Other materials	23	4	381	
				13,797
II. Containing chiefly phosphoric acid:				
Superphosphate 18%	24	1	565	
20%	24	14	3,729	
47%	24	1	39	
Precipitated bone	25	11	470	
Phosphate rock	25	3	105	
				4,908
III. Containing chiefly potash:				
Muriate of potash	26	9	1,075	
Sulphate of potash	26	6	78	
Sulphate of potash-magnesia		1	111	
Cottonhull ashes	26	16	889	
				2,153
IV. Containing nitrogen and phosphoric acid:				
Dry ground fish	27	14	421	
Bone meal	27	11	588	
Other materials	27	2	800	
				1,809
V. Containing nitrogen and potash:				
Nitrate of potash	26	5	66	
				66
VI. Mixed fertilizers:				
Commercial mixtures	28	234	62,398 ¹	
Special and home mixtures	18	150	2,940	
				65,338
VII. Miscellaneous:				
Aluminum sulphate	54	2	4	
Borax	55	1	39	
Sheep and cattle manure	42	21	1,286	
Limestone and similar materials	44	12		
Fertilizers sold in small packages	45	90		
Other miscellaneous materials	54	51	42	
Check meals and fertilizers	19	27		
				1,371
Totals		842		89,442

¹For distribution of this tonnage see next page.

Mixed Fertilizer Tonnage*Grades Approved for Connecticut*

<i>Grade</i>	<i>Tons</i>	<i>Grade</i>	<i>Tons</i>
0-10-20	787	6- 8- 8	3,980
0-12-24	144	6-12- 6	6
0-14-14	925	6-12-12	428
0-15-30	1,530	8- 4- 8	810
0-20-20	1,856	8- 6- 2	497
5- 5-15	605	8- 8- 8	383
5- 8- 7	4,184	8-16-16	2,179
5-10- 5	3,886	10-10-10	2,443
5-10-10	10,644	18-18-18	9
6- 3- 6	15,894		
		Total	51,190

*Other Grades
(50 tons or more)*

2-12-12	59	6- 7- 4	252
3- 2- 1	56	6- 8- 2	232
3-12-12	402	6- 8- 6	86
4- 4- 2	50	6-10- 4	636
4- 8- 4	73	7- 7- 7	3,189
4-10- 0	90	7-11- 5	94
4-12- 4	545	8- 6- 4	650
4-12-16	99	8-12-12	1,054
5- 3- 5	803	8-12-16	64
5- 4- 0	300	9- 7- 4	703
5- 8- 6	56	10- 5- 5	246
5-15-15	369	10- 6- 2	238
6- 4- 7	58	10- 6- 4	512
		Total	10,916

(Less than 50 tons)

1- 1- 1	20	5- 4- 6	37
1-2.5- 3	15	5- 9- 6	18
3- 1- 1	8	7- 8- 5	11
3.5-3.5-1.5	14	7-10- 5	18
4- 6- 4	11	12- 4- 4	14
4-10- 4	27	23-21-17	23
4-16-20	22	24-12-12	16
5- 3- 0	20	Other grades	18
		Total	292
		Grand Total	62,398

I. Materials Chiefly Valuable for Nitrogen

Eighty-six per cent (11,875 tons) of the primarily nitrogenous fertilizers purchased for fertilizer use in Connecticut during the 1954 season were vegetable meals, all or substantially all of which were used as tobacco fertilizers. Synthetic organic (cyanamid and urea) and inorganic materials (nitrate and sulphate of ammonia and nitrate of soda) purchased by others than tobacco growers made up the other 14 per cent.

Analyses of the 61 official samples of nitrogenous fertilizers are given in Table 1. Fifty-eight of these substantially met their guaranties; one sample each of nitrate of ammonia, sulphate of ammonia and cyanamid was deficient.

II. Materials Chiefly Valuable for Phosphoric Acid

Analyses of 13 official samples of 20 per cent superphosphate and one sample each of the 18 and 47 per cent grades are given in Table 2; all of these samples except the "triple" superphosphate met their guaranties. Five samples of precipitated bone and three of phosphate rock were all above guaranty.

III. Materials Chiefly Valuable for Potash

Nine official samples of muriate of potash, four of sulphate of potash and four of cottonhull ashes were analyzed; analyses are given in Table 3. All samples except two of muriate of potash met their guaranties.

IV. Materials Supplying Nitrogen and Phosphoric Acid

This group consists chiefly of dry ground fish and bone meal. Guaranties of "available" phosphoric acid are not required of such natural organic products, and most of them bear guaranties of total nitrogen and total phosphoric acid only. Four official samples of dry ground fish, 10 of bone meal and one of "Milorganite" (a treated sewage sludge) were analyzed in 1954; all met their guaranties. Analyses are given in Table 4.

One sample of ammoniated superphosphate was analyzed for a tobacco grower.

V. Materials Supplying Nitrogen and Potash

There is only one fertilizer material now on the market falling into this classification, namely, nitrate of potash. Fertilizer grade potassium nitrate is required to contain at least 12 per cent of nitrogen and 44 per cent of potash.

Two official samples, whose analyses are given in Table 3, both met their guaranties.

VI. Mixed Fertilizers

Commercial Mixtures

Analyses of 223 official samples of mixed fertilizers are given in Table 5. Results are summarized as follows:

Total number of samples		223
Samples deficient in:		
one item	74	
two items	7	81
Percentage of samples meeting guaranties		64
Total guaranties made		633 ¹
Guaranties not met:		
nitrogen	36	
phosphoric acid	42	
potash	10	88
Percentage met		86

¹One hundred and eighty-seven samples with three guaranties and 36 samples with two guaranties (guaranties for minor elements not included).

Eighty-six per cent of all guaranties were substantially met or exceeded.

Twenty official samples guaranteed magnesium (usually 1.2 per cent) as well as the major fertilizer components. Four samples guaranteed boron, and one of these bore additional guaranties of fractional percentages of copper, iron, magnesium, manganese and zinc. All of these minor element guaranties were substantially met, but the percentages of magnesium, iron and manganese in the sample declaring six added minor elements were respectively 50, 11 and 8 times the guaranteed quantities.

Special and Home Mixtures

One hundred and fifty samples of special and home mixtures were analyzed during the year, the great majority for tobacco growers. Because the composition of these samples is not a matter of public interest, their analyses are not tabulated in this bulletin.

State Purchases of Fertilizer

Fertilizer materials and mixed goods supplied to State institutions on State purchase orders are regularly included in our annual inspection. Fertilizers so supplied are subject to registration and tonnage tax (unless supplied to The Connecticut Agricultural Experiment Station for experimental purposes).

Samples representing State purchases are indicated in the several tables. They are summarized as follows:

<i>Materials</i>	<i>No. of samples</i>	<i>Reference</i>
Supplying nitrogen	12	Table 1
Supplying phosphoric acid	5	Table 2
Supplying potash	4	Table 3
Supplying nitrogen and phosphoric acid	3	Table 4
Mixed fertilizers	26	Table 5
	Total	50

VII. Miscellaneous

Sheep and cattle manures. These products usually bear guaranties of nitrogen, total phosphoric acid and potash, although some brands guarantee "available" instead of total phosphoric acid. Of the 20 official samples analyzed during the 1953-1954 season, 15 met all their guaranties, while two were deficient in nitrogen, one was deficient in phosphoric acid and two were below guaranty in both nitrogen and phosphoric acid. Analyses are given in Table 6.

Limestone and similar materials. Because the legal definition of "commercial fertilizers" specifically excludes "marl and lime", no regular inspection of liming materials is made. Occasional samples of limestone, hydrated lime and gypsum are analyzed for farmers or state or federal agencies, and analyses of 12 such samples are given in Table 7.

Fertilizers sold in small packages. Fertilizers sold only in packages of 10 pounds or less are not required to be registered. No attempt, therefore, is made to sample all brands of small package fertilizers that are on the market, but those that come to the attention of our agent are picked up and analyzed as a matter of interest. During the 1953-1954 season 90 samples were analyzed, of which 59, or 66 per cent, met all their

guaranties; this is slightly higher than the 64 per cent found for mixed fertilizers sold in 100-pound bags.

Analyses are given in Table 8.

Other miscellaneous materials. Fifty-four other miscellaneous products were examined; analyses are given in Table 9. Included are two official samples of aluminum sulphate and one of agricultural mesh refined borax. These were registered fertilizer materials, but their analyses were placed in this table because they would not fit into Tables 1-6. All three substantially met their respective guaranties (8.50 per cent aluminum for the two aluminum sulphate samples and 11.3 per cent boron for the borax).

Check meals and fertilizers. Collaboration was continued with the check analysis program sponsored by the American Oil Chemists' Society and the F. S. Royster Guano Company, and three samples were analyzed in connection with collaborative studies of methods for the determination of available phosphoric acid conducted by the Association of Official Agricultural Chemists. Twenty-seven samples in all were analyzed under these various programs.

MAINTENANCE OF GUARANTIES

The maintenance of guaranties as compiled from analyses of ingredient materials and mixed goods (Tables 1-6) is shown in the following tabulation. Deficiencies of 0.1 per cent or less in nitrogen or 0.2 per cent or less in phosphoric acid and potash are not counted. The proportion of guaranties substantially met was 88 per cent.

	No. of samples	No. of guaranties	Deficiencies
Nitrate of ammonia	3	3	1
Nitrate of soda	5	5	0
Sulphate of ammonia	5	5	1
Cyanamid	4	4	1
Urea	1	1	0
Castor pomace	5	5	0
Cottonseed meal	25	25	0
Horn and hoof meal	1	1	0
Linseed oil meal	6	6	0
Soybean oil meal	1	1	0
Tankage	1	1	0
Miscellaneous nitrogenous materials	4	4	0
Superphosphate	15	15	1
Precipitated bone	5	5	0
Phosphate rock	3	3	0
Muriate of potash	9	9	2
Nitrate of potash	2	4	0
Sulphate of potash	4	4	0
Cottonhull ashes	4	4	0
Dry ground fish	4	8	0
Bone meal	10	20	0
"Milorganite"	1	2	0
Mixed fertilizer	223	633	88
Sheep and cattle manure	20	60	7
Aluminum sulphate	2	2	0
Borax	1	1	0
Totals	364	831	101
Per cent guaranties met			88

TABLE I. ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN¹

Station No.	Manufacturer or jobber	Sampled from stock of	Per cent nitrogen	
			Found	Guaranteed
Nitrate of Ammonia				
9703	AEROPRILLS. American Cyanamid Co., New York, N. Y.	Granby: Ayer & Simmons, Inc.	33.60	33.50
9339 ²	AEROPRILLS. American Cyanamid Co., New York, N. Y.	Cheshire: Conn. Reformatory	32.65	33.50
9384 ²	AEROPRILLS. American Cyanamid Co., New York, N. Y.	Southbury: Southbury Training School	33.60	33.50
Nitrate of Soda				
9746	Arcadian. The American. Allied Chemical & Dye Corp., New York, N. Y.	Windsorville: Apothecaries Hall Co.	16.06	16.00
9383 ^{2,3}	Chilean. Champion Brand. Chilean Nitrate Sales Corp., New York, N. Y.	Southbury: Southbury Training School	16.06	16.00
9466 ⁴	Chilean. Champion Brand. Chilean Nitrate Sales Corp., New York, N. Y.	Wilson: Christensen-Rand, Inc.	16.00	16.00
9592 ^{2,5}	Chilean. Champion Brand. Chilean Nitrate Sales Corp., New York, N. Y.	Norwich: Norwich State Hospital	16.20	16.00
8591 ^{2,6}	Chilean. Champion Brand. Chilean Nitrate Sales Corp., New York, N. Y.	West Suffield: Hatheway-Steane Corp.	16.00	16.00
Sulphate of Ammonia				
9959	Allied Chemical & Dye Corp., New York, N. Y.	Windsorville: Apothecaries Hall Co.	21.06	20.60
9664 ²	Consolidated Rendering Co., Boston, Mass.	Somers: N. G. Osborn Prison Farm	20.50	20.50
9595 ²	Consolidated Rendering Co., Boston, Mass.	Norwich: Norwich State Hospital	20.50	20.50
9561	Fox Point Chemical Co., East Providence, R. I.	Pawcatuck: C. W. Campbell Co.	20.64	21.00
9801	The Rogers & Hubbard Co., Portland, Conn.	Portland: The Rogers & Hubbard Co.	20.80	20.50
Cyanamid				
9593 ²	AERO. American Cyanamid Co., New York, N. Y.	Norwich: Norwich State Hospital	20.08	20.00
9337 ²	AERO. American Cyanamid Co., New York, N. Y.	Cheshire: Conn. Reformatory	19.74	20.00
9403 ²	AERO. American Cyanamid Co., New York, N. Y.	Middletown: Long Lane School	20.00	20.00
9400 ²	AERO. American Cyanamid Co., New York, N. Y.	Newtown: Fairfield State Hospital	21.50	21.00

¹Deficiencies are in bold face type.²State purchases.³Sodium guaranteed, 26.0%; found, 26.80%.⁴Sodium guaranteed, 26.0%; found, 27.18%.⁵Sodium guaranteed, 26.0%; found, 26.51%.⁶Sodium guaranteed, 26.0%; found, 26.49%.

TABLE 1. ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN¹

Station No.	Manufacturer or jobber	Sampled from stock of	Per cent nitrogen	
			Found	Guaranteed
Urea				
9435	DU PONT NU GREEN Fertilizer Compound. E. I. du Pont de Nemours & Co., Wilmington, Del.	North Haven: Eastern States Farmers' Exchange, Inc.	44.90	45.00
Castor Pomace				
8685	Apothecaries Hall Co., Waterbury, Conn.	Windsor: Imperial Agricultural Corp.	5.56	4.50
9853	Olds & Whipple, Inc., Hartford, Conn.	East Hartford: Olds & Whipple, Inc.	6.34	4.50
9406 ²	Spencer Kellogg & Sons, Inc., Buffalo, N. Y.	Middletown: Long Lane School	5.82	5.50
9467	Spencer Kellogg & Sons, Inc., Edgewater, N. J.	Yalesville: The Barnes Bros. Nursery Co.	6.05	5.55
8586	Spencer Kellogg & Sons, Inc., Edgewater, N. J.	West Suffield: Hatheway-Steane Corp.	6.19	5.55
Cottonseed Meal				
8706	Empire 41%. E. T. Allen Co., Atlanta, Ga.	East Windsor Hill: General Cigar Co., Inc.	6.71	6.56
8552	Empire 41%. E. T. Allen Co., Atlanta, Ga.	Simsbury: Cullman Bros., Inc. ...	6.64	6.56
8562	Empire 41%. E. T. Allen Co., Atlanta, Ga.	Granby: Cullman Bros., Inc. ...	6.75	6.56
9769	Cow-Eta Brand 36%. Ashcraft-Wilkinson Co., Atlanta, Ga.	Norwalk: Libner Grain Co., Inc.	6.76	5.76
8590	Cow-Eta Brand 41%. Ashcraft-Wilkinson Co., Atlanta, Ga.	West Suffield: Hatheway-Steane Corp.	6.65	6.56
8707	Cow-Eta Brand 41%. Ashcraft-Wilkinson Co., Atlanta, Ga.	Hazardville: L. B. Haas & Co. ...	6.54	6.56
9483	Cow-Eta Brand 41%. Ashcraft-Wilkinson Co., Atlanta, Ga.	Glastonbury: E. J. Bantle	7.11	6.56
8557	Pure Gold Brand 41%. The Boswell Co., Atlanta, Ga.	Granby: Cullman Bros., Inc. ...	6.56	6.56
8560	Pure Gold Brand 41%. The Boswell Co., Atlanta, Ga.	Granby: Cullman Bros., Inc. ...	6.51	6.56
8558	Pure Gold Brand 41%. The Boswell Co., Atlanta, Ga.	Granby: Cullman Bros., Inc. ...	6.61	6.56
9899	Danish Brand Prime Quality 36%. Humphreys-Godwin Co., Memphis, Tenn.	North Haven: Woodruff Fertilizer Works, Inc.	6.00	5.76
9719	Dixie Brand 41%. Humphreys-Godwin Co., Memphis, Tenn.	West Suffield: H. L. Oppenheimer & Sons	6.78	6.56
9913	Dixie Brand 41%. Humphreys-Godwin Co., Memphis, Tenn.	East Hartford: Olds & Whipple, Inc.	6.90	6.56
9898	"Lovit Brand" 36%. L. B. Lovitt & Co., Memphis, Tenn.	North Haven: Woodruff Fertilizer Works, Inc.	6.32	5.76
9485	"Lovit Brand" 41%. L. B. Lovitt & Co., Memphis, Tenn.	Glastonbury: E. J. Bantle	6.50	6.56

TABLE 1. ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN¹

Station No.	Manufacturer or jobber	Sampled from stock of	Per cent nitrogen	
			Found	Guaranteed
8687	"Lovit Brand" 41%. L. B. Lovitt & Co., Memphis, Tenn.	Bloomfield: Hartman Tobacco Co.	7.00	6.56
8686	"Lovit Brand" 41%. L. B. Lovitt & Co., Memphis, Tenn.	Bloomfield: Hartman Tobacco Co.	6.58	6.56
8688	"Lovit Brand" 41%. L. B. Lovitt & Co., Memphis, Tenn.	Bloomfield: Hartman Tobacco Co.	6.96	6.56
8592	"Lovit Brand" 41%. L. B. Lovitt & Co., Memphis, Tenn.	West Suffield: Hatheway-Steane Corp.	6.67	6.56
8583	"Lovit Brand" 41%. L. B. Lovitt & Co., Memphis, Tenn.	West Suffield: Hatheway-Steane Corp.	6.52	6.56
8705	"Lovit Brand" 41%. L. B. Lovitt & Co., Memphis, Tenn.	East Windsor Hill: General Cigar Co., Inc.	6.57	6.56
9727	Swift's Cottonseed 41%. Swift & Co., Boston, Mass.	Hazardville: L. B. Haas & Co.	7.03	6.56
8554	Unico Brand 41%. Uni-Commercial, Inc., New York, N. Y.	Simsbury: Cullman Bros., Inc.	6.45	6.56
8556	Unico Brand 41%. Uni-Commercial, Inc., New York, N. Y.	Simsbury: Cullman Bros., Inc.	6.68	6.56
8550	Unico Brand 41%. Uni-Commercial, Inc., New York, N. Y.	Simsbury: Cullman Bros., Inc.	6.66	6.56
Horn and Hoof Meal				
9729	Apothecaries Hall Co., Waterbury, Conn.	Hazardville: L. B. Haas & Co.	14.50	14.00
Linseed Oil Meal				
8684	Archer Quality 36%. Archer-Daniels-Midland Co., Minneapolis, Minn.	Windsor: Imperial Agricultural Corp.	6.00	5.76
8559	Archer Quality 36%. Archer-Daniels-Midland Co., Minneapolis, Minn.	Granby: Cullman Bros., Inc.	5.87	5.76
8693	Sherwin-Williams 34%. Sherwin-Williams Co., Cleveland, Ohio	Bloomfield: Hartman Tobacco Co.	5.78	5.44
8692	Sherwin-Williams 34%. Sherwin-Williams Co., Cleveland, Ohio	Bloomfield: Hartman Tobacco Co.	5.82	5.44
8584	Spencer Kellogg's 32%. Spencer Kellogg & Sons, Inc., Edgewater, N. J.	West Suffield: Hatheway-Steane Corp.	5.87	5.12
8710	Spencer Kellogg's 32%. Spencer Kellogg & Sons, Inc., Edgewater, N. J.	Hazardville: L. B. Haas & Co.	5.70	5.12
Soybean Oil Meal				
8553	Drackett Soybean Oil Meal 44%. The Drackett Co., Cincinnati, Ohio	Simsbury: Cullman Bros.	7.57	7.04

¹Deficiencies are in bold face type.

TABLE 1. ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN¹

Station No.	Manufacturer or jobber	Sampled from stock of	Per cent nitrogen	
			Found	Guaranteed
Miscellaneous				
9828	Agrinite. The American Agricultural Chemical Co., Carteret, N. J.	East Hartford: Park Trucking Co.	8.50	8.25
9544	Agrinite. The American Agricultural Chemical Co., Carteret, N. J.	Cos Cob: Belmont Feed Co.	8.75	8.25
9737	Nitrolime Fertilizer Compound. (Ammonium Nitrate Limestone) Bradley & Baker, New York, N. Y.	Windsorville: Apothecaries Hall Co.	20.20	20.50
9822	Montansalpeter (Ammonium Sulphate Nitrate) H. J. Baker & Bro., New York, N. Y.	East Hartford: Eastern States Farmers' Exchange, Inc.	25.68	26.00
9537	Tankage 10%. Goulard & Olena, Inc., Skillman, N. J.	Greenwich: McArdle's Seed Co.	10.13	10.00

TABLE 2. ANALYSES OF SUPERPHOSPHATE, ETC.¹

Station No.	Manufacturer or jobber	Sampled from stock of	Per cent phosphoric acid			
			Citrate-insoluble	Total	"Available"	
					Found	Guaranteed
Superphosphate						
9596	18% Normal. The American Agricultural Chemical Co., New York, N. Y.	West Haven: The American Agricultural Chemical Co.	1.13	19.55	18.32	18.00
9577	20%. Apothecaries Hall Co., Waterbury, Conn. ...	New London: New London Grain Co.	1.48	22.30	20.82	20.00
9623 ²	20%. Apothecaries Hall Co., Waterbury, Conn. ...	Mansfield: Mansfield State Training School	0.80	22.25	21.45	20.00
9673	Armour Big Crop 20%. Armour Fertilizer Works, Carteret, N. J.	New Milford: Checkerboard Feed Store	0.78	21.00	20.22	20.00
9449	Farmrite 20%. Central Chemical Corp., Lebanon, Pa.	Hartford: Cadwell & Jones, Inc.	0.98	21.65	20.67	20.00
9662 ²	Corenco 20%. Consolidated Rendering Co., Boston, Mass.	Somers: N. G. Osborn Prison Farm ..	1.10	22.60	21.50	20.00
9414 ²	Corenco 20%. Consolidated Rendering Co., Boston, Mass.	Middletown: Conn. State Hospital ..	0.93	21.00	20.07	20.00
9624 ²	Corenco 20%. Consolidated Rendering Co., Boston, Mass.	Storrs: University of Connecticut	0.48	21.25	20.77	20.00
9701	20%. Eastern States Farmers' Exchange, Inc., West Springfield, Mass.	Granby: Ayer & Simmons, Inc.	1.18	22.30	21.12	20.00
9635	Old Fox Brand 0-20-0. Fox Point Chemical Co., Providence, R. I.	Putnam: Putnam Farmers Coop. Assoc., Inc.	0.63	21.10	20.47	20.00
9484	O & W. Olds & Whipple, Inc., Hartford, Conn.	Glastonbury: E. J. Bantle	1.73	22.25	20.52	20.00
9857	O & W. Triple. Olds & Whipple, Inc., Hartford, Conn.	East Hartford: Olds & Whipple, Inc.	0.98	46.90	45.92	47.00

9419	Hubbard. The Rogers & Hubbard Co., Portland, Conn.	Guilford: Fred C. Morse	0.60	20.45	19.85	20.00
9397	Swift's Red Steer 20%. Swift & Co., Boston, Mass.	Southbury: Southbury Training School	1.43	22.20	20.77	20.00
9894	20%. Woodruff Fertilizer Works, Inc., North Haven, Conn.	North Haven: Woodruff Fertilizer Works, Inc.	1.48	21.90	20.42	20.00
Precipitated Bone Phosphate						
8587	Domestic. Apothecaries Hall Co., Waterbury, Conn.	West Suffield: Hatheway-Steane Corp.	0.68	44.40	43.72	42.00
86	Apothecaries Hall Co., Waterbury, Conn.	Windsorville: Apothecaries Hall Co.	....	44.80	....	38.00
8561	Dicalcium Phosphate. Kind & Knox Gelatin Co., Camden, N. J.	Granby: Cullman Bros., Inc.	0.43	41.90 ³	41.47	....
8694	Olds & Whipple, Inc., Hartford, Conn.	Bloomfield: Hartman Tobacco Co.	0.80	41.05	40.25	38.00
8709	Olds & Whipple, Inc., Hartford, Conn.	Hazardville: L. B. Haas & Co.	0.80	41.15	40.35	38.00
Phosphate Rock						
9601	AA Quality. The American Agricultural Chemical Co., North Weymouth, Mass.	West Haven: American Agricultural Chemical Co.	26.00	31.20 ⁴	5.20	3.00
9773	Corenco Ground. Consolidated Rendering Co., Boston, Mass.	Norwalk: Libner Grain Co., Inc. ....	....	31.50 ⁴	....	....
9559	Red Seal Brand Rhum's. Rhum Phosphate & Chemical Co., Mt. Pleasant, Tenn.	Pawcatuck: C. W. Campbell Co. ....	....	30.10 ⁴	....	....

¹Deficiencies are in bold face type.

²State purchases.

³Total phosphoric acid guaranteed, 39%.

⁴Total phosphoric acid guaranteed, 30%.

TABLE 3. ANALYSES OF POTASH SALTS, ETC.¹

Station No.	Manufacturer or jobber	Sampled from stock of	Per cent potash	
			Found	Guaranteed
Muriate of Potash				
9566	The American Agricultural Chemical Co., North Weymouth, Mass.	Pawcatuck: The C. W. Campbell Co.	60.16	60.00
8593	Apothecaries Hall Co., Waterbury, Conn.	Windsor: Imperial Agricultural Corp.	58.60	60.00
9404 ²	Apothecaries Hall Co., Waterbury, Conn.	Middletown: Long Lane School	61.08	60.00
9415 ²	Apothecaries Hall Co., Waterbury, Conn.	Middletown: Conn. State Hospital	61.12	60.00
9666 ²	Apothecaries Hall Co., Waterbury, Conn.	Somers: N. G. Osborn Prison Farm	61.24	60.00
9902	Consolidated Rendering Co., Boston, Mass.	West Haven: New Haven Rendering Co.	61.36	60.00
9797	Eastern States Farmers' Exchange, Inc., West Springfield, Mass.	Norwich: Eastern States Farmers' Exchange, Inc.	60.88	60.00
9342 ²	Olds & Whipple, Inc., Hartford, Conn.	Cheshire: Conn. Reformatory	61.84	60.00
9878	Woodruff Fertilizer Works, Inc., North Haven, Conn.	North Haven: Woodruff Fertilizer Works, Inc.	59.32	60.00
Nitrate of Potash				
8589 ³	Old Deerfield Fertilizer Co., South Deerfield, Mass.	West Suffield: Hatheway-Steane Corp.	45.28	.....
8683 ⁴	Old Deerfield Fertilizer Co., South Deerfield, Mass.	Windsor: Imperial Agricultural Corp.	44.52	.....
Sulphate of Potash				
8594	Apothecaries Hall Co., Waterbury, Conn.	Windsor: Imperial Agricultural Corp.	50.96	48.00
8708 ⁵	Apothecaries Hall Co., Waterbury, Conn.	Hazardville: L. B. Haas & Co.	22.80	22.00
9486	Olds & Whipple, Inc., Hartford, Conn.	Glastonbury: E. J. Bantle	51.92	48.00
8689	Olds & Whipple, Inc., Hartford, Conn.	Bloomfield: Hartman Tobacco Co.	22.92	21.50
Cotton Hull Ashes				
8588	Apothecaries Hall Co., Waterbury, Conn.	West Suffield: Hatheway-Steane Corp.	43.16	.....
8555	Apothecaries Hall Co., Waterbury, Conn.	Simsbury: Cullman Bros., Inc.	41.84	.....
9726	Olds & Whipple, Inc., Hartford, Conn.	Hazardville: L. B. Haas & Co.	38.92	35.00
8690	Olds & Whipple, Inc., Hartford, Conn.	Bloomfield: Hartman Tobacco Co.	38.22	35.00

¹Deficiencies are in bold face type.²State purchases.³Nitrogen found, 12.84%.⁴Nitrogen found, 12.88%.⁵Magnesium found, 12.47%; guaranteed, 10.00%.

TABLE 4. ANALYSES OF GROUND FISH, BONE, ETC.¹

Station No.	Manufacturer or jobber	Sampled from stock of	Per cent nitrogen		Per cent phosphoric acid		Mechanical analyses (in percentage)	
			Total found	Total guaranteed	Total found	Total guaranteed	Finer than 1/50 inch	Coarser than 1/50 inch
Dry Ground Fish								
8585	Apothecaries Hall Co., Waterbury, Conn.	West Suffield: Hatheway-Steane Corp.	10.27	9.00	7.10	5.00	.....	.....
8691	Olds & Whipple, Inc., Hartford, Conn.	Bloomfield: Hartman Tobacco Co.	9.97	9.00	7.00	5.00	.....	.....
8711	Olds & Whipple, Inc., Hartford, Conn.	Hazardville: L. B. Haas & Co.	10.33	9.00	6.63	5.00	.....	.....
8551	Olds & Whipple, Inc., Hartford, Conn.	Simsbury: Cullman Bros., Inc.	10.29	9.00	6.85	5.00	.....	.....
Bone Meal								
9428	The American Agricultural Chemical Co., North Weymouth, Mass.	Branford: Collins & Freeman	2.28	.....	29.60	25.00	64	36
9534	Apothecaries Hall Co., Waterbury, Conn.	Greenwich: McArdle's Seed Co.	2.71	2.25	27.95	22.00	33	67
9872	Armour Fertilizer Works, Carteret, N. J.	East Windsor Hill: John Schweir & Son	2.94	2.30	25.80	23.00	56	44
9591 ²	Consolidated Rendering Co., Boston, Mass.	Norwich: Uncas on Thames Sanatorium	1.74	1.50	29.20	27.00	44	56
9663 ²	Consolidated Rendering Co., Boston, Mass.	Somers: N. G. Osborn Prison Farm	1.86	1.50	29.70	27.00	65	35
9533	Faesy & Besthoff, Inc., New York, N. Y.	Greenwich: McArdle's Seed Co.	2.66	2.47	28.25	23.00	33	67
9639	Olds & Whipple, Inc., Hartford, Conn.	Manchester: Blish Hardware Co.	2.18	2.47	29.30	23.00	70	30
9854	Olds & Whipple, Inc., Hartford, Conn.	East Hartford: Olds & Whipple, Inc.	2.92	2.47	24.50	22.00	47	53
9621 ²	The Rogers & Hubbard Co., Portland, Conn.	Mansfield Depot: Mansfield State Training School	2.20	2.00	29.10	23.00	74	26
9487	M. L. Shoemaker Co., Philadelphia, Pa.	Glastonbury: E. J. Bantle	2.72 ³	2.47	26.00	23.00	50	50
Milorganite								
9374	Sewerage Commission of the City of Milwaukee, Wis.	Hamden: Hamden Garden Center	5.76	5.00	4.95	.....⁴	.....	.....

¹Deficiencies are in bold face type.²State purchases.³Nitrogen in ammonia found, 0.04%.⁴Guaranteed "available" phosphoric acid, 4.0%; found, 4.20%.

TABLE 5. ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of sampling
	Agricultural Products Co., West Kingston, R. I.	
9557	Apco Organic Lawn Food 5-3-0	Pawcatuck
	Agricultural Supply Co., West Haven, Conn.	
9363	Yale Special 8-6-2	New Haven
	The American Agricultural Chemical Co., North Weymouth, Mass.	
9833	A.A. Quality Fertilizer 0-10-20	East Hartford
9679	A.A. Quality Fertilizer 0-14-14	New Milford
9783	A.A. Quality Fertilizer 0-15-30	Torrington
9910	A.A. Quality Fertilizer 0-20-20	West Haven
9477 ²	A.A. Quality Fertilizer 5-8-7	Portland
9670	A.A. Quality Fertilizer 5-10-10	New Milford
9831	A.A. Quality Fertilizer 7-7-7	East Hartford
9782	A.A. Quality Fertilizer 8-16-16	Torrington
9602	Agrico Country Club Fertilizer 6-10-4	West Haven
9781	Agrico Country Club Fertilizer 8-6-4	Torrington
9768	Agrico Country Club Fertilizer 10-6-4	Darien
9909	Agrico for Broadleaf Evergreens 6-10-4	West Haven
9657	Agrico for Corn 4-12-4	Stafford Springs
9829	Agrico for Gardens 5-10-5	East Hartford
9429	Agrico for Lawns, Trees & Shrubs 6-10-4	Branford
9656	Agrico for New England 5-8-7-1.2	Stafford Springs
9564	Agrico for Potatoes 5-10-10-1.2	Pawcatuck
9597	Agrico for Seeding Down 3-12-12	West Haven
9830	Agrico for Tobacco 6-3-6	East Hartford
9547	Agrico for Top Dressing 7-7-7	Groton
9370	Agrico for Truck 5-10-5	Hamden
9608	Agrico for Turf 50% Organic Fertilizer 6-8-2	Bridgeport
9778	Agrico Phosphate & Potash 0-10-20	Torrington
9780	Agrico Phosphate & Potash 0-14-14	Torrington
9536	Agrico Rose Food 5-9-6	Greenwich
9777	Agrico Top Dressing 10-10-10	Torrington
	Apothecaries Hall Co., Waterbury, Conn.	
9738	Green Gro Acid 8-5-5 Fertilizer	Windsorville
9745	Green Gro Fertilizer Mixture 6-7-4	Windsorville
9744	Green Gro Home Garden Fertilizer 5-8-7	Windsorville
9739	Green Gro Rose Food 5-7-6	Windsorville
9734	Liberty Brand Super Spud Special Potato Fertilizer 6-8-8-1.2	Windsorville
80	Liberty Fertilizer 0-10-20	Windsorville
9747	Liberty Fertilizer 0-14-14	Windsorville
9788	Liberty Fertilizer 0-20-20	Watertown
81	Liberty Fertilizer 3-12-12	Windsorville
9578	Liberty Fertilizer 4-12-4	New London

¹Deficiencies are in bold face type.²State purchases.

CONTAINING NITROGEN, PHOSPHORIC ACID AND POTASH¹

Per cent nitrogen				Per cent phosphoric acid			Per cent potash			
In nitrates	In ammonia	Organic water-soluble	Organic water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total	Magnesium
1.32	....	0.68	3.75	5.75	1.18	5.68	4.50	....	....	....
0.12	4.92	2.60	0.73	8.37	0.55	7.00	6.45	1.42	2.31	....
....	....	....	....	....	0.58	10.20	9.62	20.81	23.82	....
....	....	....	....	....	0.58	15.10	14.52	14.33	14.72	....
....	....	....	....	....	0.45	10.75	10.30	31.82	33.86	....
....	....	....	....	....	1.08	20.50	19.42	20.29	21.41	....
0.25	4.66	....	0.11	5.02	0.70	8.70	8.00	6.77	7.06	....
0.35	4.60	0.06	0.15	5.16	1.28	11.55	10.27	7.41	10.63	....
....	7.06	0.34	0.10	7.50	0.63	6.88	6.25	5.07	7.37	....
0.25	7.08	0.22	0.13	7.68	0.70	18.40	17.70	12.70	14.60	....
0.42	5.36	0.06	0.39	6.23	0.70	11.40	10.70	4.08	4.18	....
....	5.72	0.64	1.40	7.76	1.03	7.89	6.86	4.65	5.10	....
0.42	9.98	....	0.07	10.47	0.53	6.95	6.42	3.61	4.41	....
....	5.60	0.46	0.40	6.46	1.05	11.50	10.45	3.85	4.80	....
....	3.74	....	0.20	3.94	1.10	12.90	11.80	3.37	4.52	....
0.38	4.40	0.12	0.21	5.11	1.10	11.25	10.15	4.28	5.34	....
0.17	5.38	0.28	0.45	6.28	1.33	12.10	10.77	4.13	4.46	....
....	4.70	0.01	0.17	4.88	0.60	8.63	8.03	5.30	7.47	1.4
....	4.86	0.02	0.12	5.00	0.85	10.80	9.95	7.77	10.37	1.71
....	3.00	0.23	0.08	3.31	1.13	13.55	12.42	11.75	13.39	....
0.10	0.52	2.74	2.64	6.00	0.58	2.79	2.21	0.27	6.45	....
0.11	7.16	....	0.09	7.36	0.48	7.10	6.62	6.12	7.54	....
0.40	4.24	0.20	0.24	5.08	1.23	11.35	10.12	5.15	5.19	....
0.54	2.46	0.50	2.45	5.95	0.95	8.95	8.00	2.22	2.58	....
....	....	....	....	....	1.23	11.90	10.67	17.36	19.36	....
....	....	....	....	....	1.13	14.85	13.72	11.46	17.10	....
0.22	2.52	0.90	1.86	5.50	1.08	10.25	9.17	5.64	6.14	....
0.30	8.88	0.19	0.07	9.44	0.90	11.35	10.45	0.35	9.94	....
0.28	6.28	0.42	0.94	7.92	0.53	6.88	6.35	3.81	5.94	....
0.13	4.44	0.24	1.31	6.12	0.65	9.03	8.38	5.23	6.11	....
0.35	4.24	....	0.53	5.12	0.73	9.25	8.52	5.25	7.91	....
....	3.70	0.56	1.00	5.26	0.80	8.55	7.75	6.36	7.33	....
0.37	5.44	0.12	0.47	6.40	1.07	9.23	8.16	0.42	8.90	1.31
....	....	....	....	....	0.55	10.40	9.85	21.05	22.58	....
....	....	....	....	....	0.73	14.55	13.82	12.03	15.67	....
....	....	....	....	....	0.35	17.85	17.50	18.17	22.78	....
0.35	2.76	....	0.07	3.18	0.90	13.15	12.25	11.09	13.74	....
0.28	3.40	0.60	0.34	4.62	0.95	13.30	12.35	4.29	5.28	....

TABLE 5. ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of sampling
9620 ²	Liberty Fertilizer 4-12-4	Storrs
9538	Liberty Fertilizer 5-10-5	Greenwich
9336 ²	Liberty Fertilizer 5-10-10	Cheshire
9626	Liberty Fertilizer 5-10-10	Abington
9416 ²	Liberty Fertilizer 5-10-10	Middletown
9658 ²	Liberty Fertilizer 5-10-10	Somers
9735	Liberty Fertilizer 5-10-10-1.2	Windsorville
9338 ²	Liberty Fertilizer 6-8-8	Cheshire
9736	Liberty Fertilizer 6-8-8	Windsorville
82	Liberty Fertilizer 6-8-8-1.2	Windsorville
9408	Liberty Green Gro Fertilizer 6-7-4	Middletown
9341 ²	Liberty High Grade Market Gardeners 5-8-7	Cheshire
9661 ²	Liberty High Grade Market Gardeners 5-8-7	Somers
9627	Liberty High Grade Market Gardeners 5-8-7	Abington
9704	Liberty Landscape & Golf Course Fertilizer 8-6-2	Suffield
9468	Liberty Special for Fruit and Grass 7-7-7	Yalesville
85	Liberty Tobacco Mixture 6-3-6	Windsorville
84	Liberty Tobacco Mixture 6-3-6 with Castor Pom- ace	Windsorville
9960	Liberty Tobacco Starter Fertilizer 4-10-0	Windsorville
83	Liberty Tobacco Starter 5-5-15	Windsorville
Armour Fertilizer Works, Carteret, N. J.		
9871	Armour All Organic 5-5-0	East Windsor Hill
9875	Armour Big Crop Fertilizer 0-20-20	East Windsor Hill
9638	Armour Big Crop Fertilizer 5-8-7	Bolton Notch
9874	Armour Big Crop Fertilizer 5-10-10	East Windsor Hill
9869	Armour Big Crop Fertilizer 7-7-7	East Windsor Hill
9876	Armour Big Crop Fertilizer 10-10-10	East Windsor Hill
9868	Armour Gold Bond Tobacco Grower 6-3-6	East Windsor Hill
9605	Armour Vertagreen Plant Food 5-10-5	Milford
9684	Armour Vertagreen Plant Food for Commercial Crops 6-12-12	Wilson
9637	Armour Vertagreen Plant Food for Commercial Crops 6-12-12	Bolton Notch
9870	Armour Vertagreen Plant Food for Professional Use 10-6-4	East Windsor Hill
Associated Seed Growers, Inc., Milford, Conn.		
9604	Asgrow Lawn Food 10-6-4	Milford
9603	Japedizer 8-6-4	Milford
H. J. Baker and Bro., New York, N. Y.		
9421	Nitrogenic 5-4-0	Guilford
The F. A. Bartlett Tree Expert Co., Stamford, Conn.		
9755	Bartlett Green Tree Food 6-8-6	Stamford

¹Deficiencies are in bold face type.²State purchases.

CONTAINING NITROGEN, PHOSPHORIC ACID AND POTASH¹

Per cent nitrogen				Per cent phosphoric acid			Per cent potash			
In nitrates	In ammonia	Organic water-soluble	Organic water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total	Magnesium
0.56	3.16	0.88	0.29	4.19	1.05	13.65	12.60	3.85	4.94	.....
0.44	4.44	0.08	0.28	5.24	0.88	12.35	11.47	6.06	6.38	.....
0.56	4.12	0.24	0.40	5.32	0.75	11.50	10.75	9.36	10.59	.....
0.34	4.64	0.06	0.26	5.30	0.95	12.35	11.40	9.27	10.22	.....
0.30	4.36	0.16	0.25	5.07	0.98	12.10	11.12	10.35	10.44	.....
0.59	4.36	0.10	0.28	5.33	1.03	11.85	10.82	7.24	10.59	.....
.....	4.68	0.21	0.43	5.32	0.95	11.20	10.25	8.02	10.80	1.45
0.38	5.18	0.22	0.30	6.08	0.35	8.50	8.15	5.02	8.53	.....
0.44	5.56	0.20	0.30	6.50	0.68	8.35	7.67	2.58	8.90	.....
0.60	5.56	.....	0.24	6.40	0.60	9.38	8.78	6.16	8.69	0.90
.....	4.40	0.56	1.26	6.22	0.58	9.05	8.47	4.13	4.46	.....
0.57	4.48	0.08	0.27	5.40	0.83	9.55	8.72	7.26	8.25	.....
0.37	4.26	0.18	0.19	5.00	0.43	9.65	9.22	7.29	8.29	.....
0.37	4.32	.....	0.33	5.02	0.50	9.03	8.53	6.33	8.35	.....
.....	6.88	0.84	1.20	8.92	0.90	7.00	6.10	2.12	2.65	.....
0.37	6.80	0.02	0.27	7.46	0.50	8.03	7.53	6.87	7.91	.....
0.38	0.34	1.96	3.61	6.29	0.38	5.14	4.76	0.21	6.54	.....
1.50	0.56	1.32	3.81	7.19	0.43	5.10	4.67	0.52	6.99	.....
0.80	2.88	0.20	0.36	4.24	0.55	12.95	12.40	.....	.....	.....
1.52	0.68	1.60	1.52	5.32	0.55	6.68	6.13	0.70	15.42	.....
.....	0.24	0.19	4.59	5.02	.....	6.98	.....	.....	.....	.....
.....	.....	.....	.....	.....	1.08	13.35	12.27	23.28	26.50	.....
0.14	4.56	0.18	0.14	5.02	0.55	8.83	8.28	5.38	7.20	.....
.....	4.26	0.80	0.14	5.20	0.73	10.95	10.22	8.23	10.33	.....
0.10	6.52	0.48	0.13	7.23	0.75	7.80	7.05	6.12	7.74	.....
0.24	9.58	0.42	0.05	10.29	0.48	8.55	8.07	10.31	11.97	.....
0.87	0.32	2.28	2.49	5.96	0.58	3.90	3.32	0.80	6.65	.....
0.31	4.52	0.08	0.21	5.12	0.78	11.55	10.77	2.19	6.04	.....
0.34	5.22	0.00	0.10	5.66	0.45	13.00	12.55	9.64	10.82	.....
0.35	5.40	0.02	0.21	5.98	0.60	11.85	11.25	9.27	13.08	.....
0.28	7.96	0.74	1.31	10.29	1.13	5.70	4.57	4.21	4.97	.....
0.60	4.64	2.78	2.06	10.08	0.75	6.90	6.15	4.33	4.67	.....
0.15	4.16	2.44	1.67	8.42	0.80	7.60	6.80	4.77	5.22	.....
.....	0.08	0.36	5.06	5.50	0.95	6.20	5.25	.....	.....	.....
.....	4.94	0.94	0.29	6.17	1.03	8.65	7.62	4.25	6.45	.....

TABLE 5. ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of sampling
Consolidated Rendering Co., Boston, Mass.		
9903	Corenco 0-10-20 Hay and Pasture Special	West Haven
9900	Corenco 0-14-14 Top Dresser	West Haven
89	Corenco 0-20-20 Legume Special	Springfield, Mass.
9717	Corenco 4-12-4 Complete Manure	West Suffield
9908	Corenco 4-12-16 Ladino Special	West Haven
9873	Corenco 5-5-15 Tobacco Starter	East Windsor Hill
9377	Corenco 5-8-7 Potato and General Crop	Seymour
9590 ²	Corenco 5-8-7 Potato and General Crop	Norwich
9725	Corenco 5-10-5 Home Garden Fertilizer	Thompsonville
9345	Corenco 5-10-5 Onion Special-Super Truck	New Haven
9382 ²	Corenco 5-10-5 Onion Special-Super Truck	Southbury
9438 ²	Corenco 5-10-5 Onion Special-Super Truck	Mt. Carmel
9625 ²	Corenco 5-10-5 Onion Special-Super Truck	Storrs
9399 ²	Corenco 5-10-10 Peerless Potato	Newtown
9594 ²	Corenco 5-10-10 Peerless Potato	Norwich
88	Corenco 6-3-6 Premium Tobacco Grower	Springfield, Mass.
9905	Corenco 6-8-8 Potato Special	West Haven
9904	Corenco 6-8-8-1.2 Potato Special	West Haven
9901	Corenco 6-8-8-1.2 Potato Special	West Haven
9619 ²	Corenco 7-7-7 Complete Fruit and Top Dressing	Storrs
9364 ²	Corenco 7-7-7 Complete Fruit and Top Dressing	New Haven
9340 ²	Corenco 7-7-7 Complete Fruit and Top Dressing	Cheshire
9401 ²	Corenco 7-7-7 Complete Fruit and Top Dressing	Newtown
9365	Corenco 8-6-4 Landscape Fertilizer	New Haven
9906	Corenco 8-16-16 Two-in-one	West Haven
9589 ²	Corenco 10-10-10	Norwich
9437 ²	Corenco 10-10-10 Fertilizer	Mt. Carmel
9721	Corenco 10-10-10 Fertilizer	West Suffield
9907	Corenco Organic Turf Fertilizer 5-4-0	West Haven
87	Corenco Perfection Tobacco Grower 6-3-6	Springfield, Mass.
9718	Corenco Spurz-on 3.5-3.5-1.5	West Suffield
R. G. Davis and Sons, Inc., New Haven, Conn.		
9359	Organo 10-5-5	New Haven
The Davison Chemical Corp., Baltimore, Md.		
9678	Davco Granulated Fertilizer 0-10-20	New Milford
9674	Davco Granulated Fertilizer 4-12-16	New Milford
9675	Davco Granulated Fertilizer 5-10-5	New Milford
9720	Davco Granulated Fertilizer 5-10-10	West Suffield
9695 ³	Davco Granulated Fertilizer 6-8-8 with 0.15% Magnesium and 0.085% Boron	Wilson
9677	Davco Granulated Fertilizer 8-16-16	New Milford
9676	Davco Granulated Fertilizer 10-10-10	New Milford

¹Deficiencies are in bold face type.²State purchases.³Boron found, 0.074%.

CONTAINING NITROGEN, PHOSPHORIC ACID AND POTASH¹

In nitrates	Per cent nitrogen				Per cent phosphoric acid		Per cent potash		Magnesium	
	In ammonia	Organic water-soluble	Organic water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate		Total
.....	.....	.....	.....	.....	0.53	10.20	9.67	18.45	21.86	.....
.....	.....	.....	.....	.....	0.38	14.05	13.37	13.61	16.15	.....
.....	.....	.....	.....	.....	0.70	19.30	18.60	9.32	20.76	.....
0.74	3.58	0.32	0.30	4.94	0.73	13.10	12.37	4.46	5.77	.....
0.98	3.20	0.18	0.04	4.40	0.88	12.40	11.52	13.00	16.01	.....
0.21	.....	3.00	1.89	5.10	0.55	4.13	3.58	1.13	16.20	.....
0.99	3.64	0.26	0.21	5.10	0.78	8.65	7.87	7.44	7.71	.....
1.15	3.44	0.32	0.09	5.00	0.68	9.93	9.25	6.52	7.33	.....
1.10	3.40	0.16	0.20	4.86	0.83	12.15	11.32	4.10	5.25	.....
0.90	3.74	0.18	0.22	5.04	0.70	10.85	10.15	3.85	5.13	.....
0.83	3.92	0.12	0.21	5.08	0.70	11.65	10.95	5.09	5.34	.....
0.92	3.66	0.14	0.19	4.91	0.78	11.10	10.32	4.93	5.73	.....
0.68	3.50	0.40	0.33	4.91	0.90	11.90	11.00	4.33	5.34	.....
0.79	3.86	0.22	0.14	5.01	1.10	11.60	10.50	9.88	10.12	.....
0.16	3.64	1.30	0.12	5.22	0.55	11.85	11.30	10.08	10.26	.....
.....	0.36	3.23	2.65	6.24	0.50	4.21	3.71	0.46	6.99	.....
0.83	4.60	0.40	0.17	6.00	0.43	8.83	8.40	7.22	9.02	.....
0.37	4.12	1.20	0.23	5.92	0.43	8.35	7.92	6.71	8.35	1.38
1.24	5.18	0.02	0.24	6.68	0.33	8.73	8.40	0.39	9.22	0.62
0.53	6.00	0.36	0.30	7.19	0.75	8.08	7.33	5.66	7.16	.....
0.90	5.40	0.24	0.20	6.74	0.48	7.78	7.30	6.02	7.20	.....
0.98	5.62	0.22	0.18	7.00	0.50	7.58	7.08	.....	7.74	.....
0.90	6.00	0.24	0.23	7.37	0.83	8.30	7.47	7.20	8.15	.....
.....	4.80	2.48	0.81	8.09	0.50	6.68	6.18	4.41	4.91	.....
0.40	6.16	1.36	0.19	8.11	0.73	14.85	14.12	14.52	16.68	.....
.....	11.28	1.26	0.16	12.70	0.50	7.05	6.55	6.55	7.76	.....
2.02	7.80	0.04	0.16	10.02	0.50	11.65	11.15	8.53	10.33	.....
1.64	8.14	0.32	0.13	10.23	0.60	9.95	9.35	8.96	11.89	.....
.....	0.12	0.24	4.29	4.65	1.20	5.28	4.08	.....	.....	.....
.....	0.30	2.33	3.25	5.88	0.38	4.55	4.17	0.62	6.99	.....
.....	0.32	1.47	2.99	4.78	.....	4.14	.....	.....	2.45	.....
.....	5.64	2.64	1.25	9.53	0.88	6.53	5.65	5.37	5.60	.....
.....	.....	.....	.....	.....	0.83	10.55	9.72	22.38	24.28	.....
.....	3.56	0.03	0.09	3.68	0.40	13.50	13.10	15.99	17.52	.....
.....	4.71	.....	0.09	4.80	0.25	11.15	10.90	3.13	5.50	.....
.....	5.16	.....	0.14	5.30	0.83	11.15	10.32	9.51	10.30	.....
.....	6.16	.....	0.12	6.28	0.85	8.48	7.63	8.15	8.93	1.56
.....	8.16	0.20	0.05	8.41	0.58	15.00	14.42	16.19	17.17	.....
.....	9.86	0.11	0.11	10.08	0.48	11.25	10.77	8.17	10.26	.....

TABLE 5. ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of sampling
Durham Soil Builders, Durham, Conn.		
9410	Chiguano 1-1-1	Middletown
Eastern States Farmers' Exchange, Inc., West Springfield, Mass.		
9434	Eastern States Fertilizer 0-15-30	North Haven
9785	Eastern States Fertilizer 0-20-20	Torrington
9681	Eastern States Fertilizer 5-10-10-0.6	New Milford
9680	Eastern States Fertilizer 5-15-15-0.6	New Milford
9834	Eastern States Tobacco Fertilizer 8-4-8-1.2	East Hartford
9786	Eastern States Fertilizer 8-12-12-1.2	Torrington
9827	Eastern States Fertilizer 8-12-16-1.2	East Hartford
9433	Eastern States Fertilizer 8-16-16-0.6	North Haven
9702	Eastern States Fertilizer 10-10-10-0.6	Granby
The Espoma Co., Millville, N. J.		
9530	Espoma 3-2-1	Greenwich
9531	Holly-Tone 4-6-4	Greenwich
Fox Point Chemical Co., East Providence, R. I.		
9563	Old Fox Brand 0-12-24	Pawcatuck
9381 ²	Old Fox Brand 0-20-20	Southbury
9562	Old Fox Brand 0-20-20	Pawcatuck
9622 ²	Old Fox Brand 0-20-20	Mansfield Depot
9446 ^{2,3}	Old Fox Brand 0-20-20 with 0.11% Borax	Cheshire
9628	Old Fox Brand 4-16-20	Putnam
9549	Old Fox Brand 5-8-7-1.2	Mystic
9546	Old Fox Brand 5-10-10-0.6	Groton
9550	Old Fox Brand 7-7-7	Mystic
9548	Old Fox Brand 7-7-7-1.2	Groton
9478 ²	Old Fox Brand 10-6-2	Portland
9698 ²	Old Fox Brand 10-6-2	Windsor Locks
9629	Old Fox Brand Garden Food 5-10-5	Putnam
9560	Old Fox Turf Fertilizer 8-6-2	Pawcatuck
Goulard & Olena, Inc., Skillman, N. J.		
9818	G & O Rose Food 7-8-5	West Hartford
Lebanon Chemical Corp., Lebanon, Pa.		
9451 ⁴	Farmrite Gardenrite 5-10-5-0.05	Hartford
9817	Farmrite Hi Organic 8-8-8	West Hartford
9448	Lebanon Fertilizer 5-10-10	Hartford
9447	Lebanon Fertilizer 10-6-4	Hartford
9450	Turf Organic 5-4-0	Hartford

¹Deficiencies are in bold face type.

²State purchases.

³Boron found, 0.089%.

⁴Boron guaranteed, 0.028%; found, 0.020%; copper guaranteed, 0.06%; found, 0.048%; iron guaranteed, 0.037%; found, 0.40%; manganese guaranteed, 0.05%; found, 0.41%; zinc guaranteed, 0.06%; found, 0.048%.

CONTAINING NITROGEN, PHOSPHORIC ACID AND POTASH¹

Per cent nitrogen					Per cent phosphoric acid			Per cent potash		
In nitrates	In ammonia	Organic water-soluble	Organic water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total	Magnesium
.....	0.20	0.15	0.54	0.89	8.40	9.86	1.46	0.17	0.90	.....
.....	.....	.....	.....	.....	0.43	15.20	14.77	29.80	31.16	.....
.....	.....	.....	.....	.....	0.88	20.90	20.02	18.25	20.00	.....
1.24	3.96	0.12	0.05	5.37	0.83	11.00	10.17	10.12	12.01	0.95
1.15	3.96	0.04	0.06	5.21	0.40	16.35	15.95	15.30	15.30	0.95
1.19	0.38	3.40	2.77	7.74	0.90	5.43	4.53	0.57	9.58	3.48
1.73	5.82	0.26	0.08	7.89	0.75	12.90	12.15	9.73	13.63	.....
0.78	6.18	0.38	0.16	7.50	1.00	14.60	13.60	10.80	15.72	1.43
1.67	5.76	0.36	0.13	7.92	0.60	17.00	16.40	8.23	16.80	0.77
1.92	7.76	0.02	0.10	9.80	0.80	11.70	10.90	7.20	10.37	0.76
.....	2.28	0.64	1.58	4.50	0.48	3.80	3.32	0.93	2.32	.....
.....	2.52	0.58	1.57	4.67	0.48	6.20	5.72	4.81	5.94	.....
.....	.....	.....	.....	.....	0.78	12.20	11.42	22.82	25.35	.....
.....	.....	.....	.....	.....	0.70	20.35	19.65	16.45	20.40	.....
.....	.....	.....	.....	.....	0.60	20.35	19.75	18.34	20.83	.....
.....	.....	.....	.....	.....	0.63	19.90	19.27	21.36	21.36	.....
.....	.....	.....	.....	.....	0.43	17.80	17.37	19.08	22.72	.....
0.26	3.30	0.58	0.13	4.27	0.65	17.35	16.70	17.86	19.54	.....
0.51	4.08	0.14	0.05	4.78	0.85	9.40	8.55	7.64	8.15	1.52
0.09	4.06	0.40	0.17	4.72	1.05	11.00	9.95	10.55	10.55	0.62
0.10	6.56	0.40	0.08	7.14	0.63	7.63	7.00	7.16	7.71	.....
0.62	6.28	.....	0.10	7.00	0.75	7.95	7.20	6.64	7.64	1.64
0.14	9.86	0.44	0.09	10.53	0.60	6.43	5.83	1.94	2.67	.....
0.33	9.40	0.72	0.08	10.53	0.50	6.50	6.00	1.26	2.78	.....
0.13	4.38	0.38	0.17	5.06	1.25	11.00	9.75	9.66	9.66	.....
0.30	6.06	0.42	1.00	7.78	0.53	7.35	6.82	3.29	5.70	.....
.....	5.56	1.37	0.93	7.86	0.83	9.65	8.82	5.17	5.94	.....
0.99	3.60	0.30	0.14	5.03	0.78	10.50	9.72	2.76	5.13	2.46
1.98	3.40	0.64	1.66	7.68	0.85	8.85	8.00	6.99	8.15	.....
1.12	3.98	.....	0.18	5.28	1.25	11.75	10.50	8.70	9.87	.....
0.76	8.78	0.28	0.08	9.90	0.60	7.10	6.50	3.21	4.62	.....
2.10	0.16	0.60	2.37	5.23	1.13	5.03	3.90	.....	.....	.....

TABLE 5. ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of sampling
	McArdle's Seed Co., Greenwich, Conn.	
9535	McArdle's Hi Organic 10-6-4	Greenwich
	The Mamlon Co., New Haven, Conn.	
9911	Fer-Mel Concentrated Plant Food 18-18-18	New Haven
9821	Fer-Mel 24-12-12 Water Soluble Turf & Tree Food	West Hartford
9912	Fer-Mel 24-12-12 Water Soluble Turf & Tree Food	New Haven
	Old Deerfield Fertilizer Co., Inc. South Deerfield, Mass.	
9481	Old Deerfield 5-8-7 Fertilizer	Glastonbury
9480	Old Deerfield 5-10-10 Fertilizer	Glastonbury
9952	Old Deerfield 5-10-10 Fertilizer	Glastonbury
9949	Old Deerfield 6-3-6 Tobacco Fertilizer	Glastonbury
9950	Old Deerfield 6-3-6 Tobacco Fertilizer	East Hartford
9915	Old Deerfield High Grade 6-4-7 Tobacco Fertilizer	Glastonbury
9482	Old Deerfield 7-7-7 Fertilizer	Glastonbury
9916	Special 6-3-6 Complete Tobacco Fertilizer	Glastonbury
9951	Special 6-3-6 Complete Tobacco Fertilizer	East Hartford
	Olds & Whipple, Inc., Hartford, Conn.	
9914	O & W 0-14-14 Fertilizer	East Hartford
9858	O & W 0-20-20 Fertilizer	East Hartford
9837	O & W 4-8-4 Complete Lawn Grass Fertilizer	East Hartford
9859	O & W 4-12-4 Market Garden Fertilizer	East Hartford
9851	O & W 5-3-5 Complete Tobacco Fertilizer	East Hartford
9849	O & W 5-5-15 High Grade Tobacco Starter & Potash Compound	East Hartford
9855	O & W 5-8-6 Luxura	East Hartford
9402	O & W 5-8-7 Potato & General Purpose Fertilizer	Middletown
9645	O & W 5-10-5 Fertilizer	Manchester
9856	O & W Garden Fertilizer 5-10-5	East Hartford
9836	O & W 5-10-10 Potato Fertilizer	East Hartford
9838	O & W 6-3-6 Blue Label Tobacco Fertilizer	East Hartford
9852	O & W 6-3-6 Blue Label Tobacco Fertilizer	East Hartford
9850	O & W 6-3-6 Pomace Base Tobacco Fertilizer	East Hartford
9641	O & W 7-7-7 Top Dressing & Grass Fertilizer	Manchester
9733	O & W 8-12-12 High Grade General Purpose Fertilizer 1.8% Magnesium	Somers
	Plant Products Corp., Blue Point, L. I., New York	
9454	Plant Prod "20" 20-20-20	Hartford

¹Deficiencies are in bold face type.

CONTAINING NITROGEN, PHOSPHORIC ACID AND POTASH¹

Per cent nitrogen					Per cent phosphoric acid			Per cent potash		
In nitrates	In ammonia	Organic water-soluble	Organic water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total	Magnesium
.....	7.28	1.98	1.34	10.60	0.43	8.03	7.60	5.05	5.16	.....
1.46	4.04	12.20	0.10	17.80	0.33	19.65	19.32	9.78	18.12	.....
1.38	3.37	18.63	0.00	23.38	0.03	13.90	13.87	13.10	15.26	.....
0.22	3.44	17.83	0.27	21.76	0.43	14.60	14.17	13.79	14.98	.....
0.51	4.38	0.14	0.18	5.21	0.65	9.43	8.78	5.79	7.37	.....
0.44	3.36	1.46	0.09	5.35	0.48	11.35	10.87	8.42	10.70	.....
0.54	3.48	1.40	0.08	5.50	0.38	10.55	10.17	8.45	11.12	.....
0.66	0.64	1.96	3.37	6.63	0.45	4.75	4.30	0.70	6.55	.....
1.14	0.80	1.54	3.30	6.78	0.58	5.01	4.43	0.60	6.96	.....
0.73	1.00	1.50	3.40	6.63	0.68	5.18	4.50	0.98	7.77	.....
0.55	6.06	0.72	0.20	7.53	0.58	8.40	7.82	5.54	7.64	.....
0.71	1.00	1.44	3.60	6.75	0.38	4.83	4.45	0.58	7.10	.....
0.62	1.00	1.86	3.19	6.67	0.43	5.19	4.76	0.76	7.20	.....
.....	.....	.....	.....	.....	0.45	16.55	16.10	9.32	11.68	.....
.....	.....	.....	.....	.....	0.45	19.30	18.85	19.95	24.28	.....
1.00	2.64	0.36	0.70	4.70	0.95	9.98	9.03	3.24	4.33	.....
0.36	3.26	0.20	0.28	4.10	0.70	14.80	14.10	3.68	5.13	.....
.....	0.14	2.53	2.80	5.47	0.35	4.16	3.81	0.44	6.14	.....
0.70	2.16	1.06	0.95	4.87	0.73	6.08	5.35	1.50	16.91	.....
0.65	2.20	0.44	1.43	4.72	0.63	10.88	10.25	7.68	9.90	.....
0.52	4.16	0.12	0.38	5.18	1.03	9.03	8.00	5.37	7.40	.....
.....	4.42	0.50	0.42	5.34	0.90	11.80	10.90	4.71	5.57	.....
0.37	5.42	0.16	0.35	6.30	0.55	8.90	8.35	5.33	7.06	.....
.....	4.06	0.64	0.30	5.00	0.50	11.30	10.80	10.40	11.70	.....
0.47	0.28	2.52	2.93	6.20	0.70	3.64	2.94	0.16	7.61	.....
1.12	0.58	1.62	2.85	6.17	0.63	3.73	3.10	0.45	7.50	.....
1.48	0.24	2.22	2.68	6.62	0.50	4.13	3.63	0.49	8.22	.....
0.44	4.40	1.84	0.57	7.25	0.70	8.10	7.40	6.40	7.57	.....
1.29	7.08	0.12	0.23	8.72	0.68	12.20	11.52	10.17	14.07	2.02
0.30	4.36	11.24	0.06	15.96	0.30	21.35	21.05	15.99	22.72	.....

TABLE 5. ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of sampling
The Frank S. Platt Co., New Haven, Conn.		
9343	Platt's Concentrated 10-5-5 Lawn Fertilizer	New Haven
Ra-Pid-Gro Corp., Dansville, N. Y.		
9479	Ra-Pid-Gro. 23-21-17	Portland
Rogers & Hubbard Co., Portland, Conn.		
9609	Gro-Fast Acid Fertilizer 4-10-4	Bridgeport
9802	Gro-Fast All-Organic Fertilizer 5-4-0	Portland
9473	Gro-Fast Plant Food 5-10-5	Meriden
9955	Gro-Fast Rose Food 7-10-5	Portland
9957	Gro-Fast Sol Water Soluble Concentrate 16-20-16	Portland
9811	Hubbard Alfalfa Fertilizer 0-14-14	Portland
9812 ²	Hubbard Alfalfa Fertilizer 0-14-14 with 0.55% Boron	Portland
9398 ³	Hubbard Conn 10-5-5	Southbury
9774	Hubbard Corn Fertilizer 4-12-4	Deep River
9808	Hubbard Dairy Fertilizer 0-10-20	Portland
9807	Hubbard Double Strength Fertilizer 8-16-16	Portland
9420	Hubbard Garden Fertilizer 5-10-5	Guilford
9570	Hubbard General Crop Fertilizer 5-10-10	Centerbrook
9954	Hubbard General Crop Fertilizer 5-10-10-1.2	Portland
9815	Hubbard Golf Course Fertilizer 8-6-2	Portland
9405 ³	Hubbard Golf Course Fertilizer 10-6-4	Middletown
9610	Hubbard Golf Course Fertilizer 10-6-4	Bridgeport
9814	Hubbard Hi-Top Fertilizer 10-10-10	Portland
9803	Hubbard High Potash Fertilizer 5-10-10	Portland
9806	Hubbard High Potash Fertilizer 5-10-10	Portland
9732	Hubbard 6-8-8 Potato Fertilizer	Somers
9813	Hubbard Seeding Fertilizer 3-12-12	Portland
9804	Hubbard Tobacco Grower 6-3-6	Portland
9682	Hubbard Top Dressing 7-7-7	Danbury
9953	Hubbard Valley Brand 6-3-6	Portland
9418	Hubbard Vegetable Fertilizer 5-8-7	Guilford
9956	Hubbard Weed-Kil Lawn Food 6-10-4 (contains 2,4-D)	Portland
O. M. Scott & Sons Co., Marysville, Ohio		
9360	Scott's Turf Builder 9-7-4	New Haven
9644	Scott's Weed and Feed 7-11-5	Manchester
Sears, Roebuck & Co., Chicago, Ill.		
9749	Cross Country Lawn Food 5-4-0	Stamford
9750	Cross Country Plant Food 5-10-5	Stamford

¹Deficiencies are in bold face type.

²Boron found, 0.56%.

³State purchases.

CONTAINING NITROGEN, PHOSPHORIC ACID AND POTASH¹

Per cent nitrogen					Per cent phosphoric acid			Per cent potash		Magnesium
In nitrates	In ammonia	Organic water-soluble	Organic water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total	
0.12	6.52	2.24	1.12	10.00	0.35	5.68	5.33	3.15	5.73	.....
4.90	4.48	15.52	0.04	24.94	0.40	19.45	19.05	.....	15.37	.....
.....	1.56	1.46	1.20	4.22	0.60	10.60	10.00	4.09	5.47	.....
3.83	0.14	0.28	0.62	4.87	1.05	4.58	3.53	.....	.....	.....
0.65	2.22	1.46	1.04	5.37	0.70	10.85	10.15	5.13	5.44	.....
0.00	2.50	2.49	1.78	6.77	1.83	14.70	12.87	0.35	6.20	.....
0.48	5.20	9.90	0.26	15.84	0.93	20.05	19.12	19.23	23.10	.....
.....	.....	.....	.....	.....	0.58	15.05	14.47	12.67	15.67	.....
.....	.....	.....	.....	.....	0.75	14.90	14.15	14.34	16.57	.....
0.69	4.68	3.76	0.27	9.40	0.83	5.88	5.05	4.52	5.13	.....
0.50	3.20	0.58	0.25	4.53	0.88	13.75	12.87	3.61	5.34	.....
.....	.....	.....	.....	.....	0.33	10.30	9.97	18.29	20.77	.....
0.63	6.78	0.42	0.09	7.92	0.68	16.95	16.27	14.90	15.66	.....
0.85	4.76	0.16	0.18	5.95	0.93	11.35	10.42	5.14	5.66	.....
1.06	3.90	.....	0.19	5.15	1.25	11.35	10.10	8.18	10.93	.....
1.32	4.56	.....	0.09	5.97	0.75	11.50	10.75	9.10	10.40	1.71
0.53	3.88	2.12	1.47	8.00	0.65	7.05	6.40	2.52	2.94	.....
.....	4.88	3.20	2.12	10.20	0.88	7.18	6.30	4.46	4.46	.....
0.51	4.24	2.60	2.18	9.53	0.60	7.50	6.90	4.33	4.68	.....
0.77	9.24	0.32	0.11	10.44	0.55	10.60	10.05	8.55	10.63	.....
0.39	2.86	0.96	1.19	5.40	0.98	11.35	10.37	10.15	11.32	.....
0.80	2.68	0.78	1.36	5.62	0.58	11.20	10.62	7.58	10.22	.....
0.97	4.60	0.34	0.12	6.03	1.03	9.43	8.40	6.61	8.32	.....
0.36	2.58	0.74	0.22	3.90	1.35	13.20	11.85	11.61	12.88	.....
0.18	0.16	2.40	3.15	5.89	0.38	3.95	3.57	0.40	7.03	.....
0.08	6.40	0.86	0.19	7.53	0.73	7.88	7.15	7.33	8.02	.....
0.66	2.80	1.32	2.65	7.43	0.58	6.41	5.83	0.80	7.26	.....
0.84	4.00	0.28	0.18	5.30	1.08	9.98	8.90	6.44	7.23	.....
.....	4.76	0.43	0.81	6.00	0.95	11.15	10.20	4.85	5.70	.....
0.51	7.24	0.50	1.34	9.59	1.13	8.53	7.40	4.59	4.59	.....
.....	4.38	0.03	2.55	6.96	0.83	12.40	11.57	3.65	5.24	.....
.....	0.12	0.30	4.60	5.02	1.45	5.18	3.73	.....	.....	.....
0.69	3.84	0.48	0.45	5.46	0.90	10.95	10.05	4.22	5.10	.....

TABLE 5. ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of sampling
	M. L. Shoemaker, Inc., Div. Wilson & Co., Philadelphia, Pa.	
9697	M. L. Shoemaker's "Swift Sure" Tobacco Starter 4-10-0	Windsor Locks
	Swift & Co., Chicago, Ill.	
9771	All Organic Lawn Food 5-3-0	Darien
9407	Swift's Red Steer Brand Plant Food 5-8-7	Middletown
9767	Vigoro 5-10-5	Stamford
	Oscar F. Warner, Waterbury, Conn.	
9790	Warner's Grubedizer 8-6-4	Waterbury
9791	Warner's Lawn Fertilizer 8-6-4	Waterbury
7740	Warner's Tree Food 12-6-4	Waterbury
9789	Warner's Tree Food 12-6-4	Waterbury
	F. H. Woodruff & Sons, Inc., Milford, Conn.	
9607	Gro-Sod Lawn Food 10-6-4	Milford
	Woodruff Fertilizer Works, Inc. No. Haven, Conn.	
9895	Home Garden Fertilizer 5-10-5	North Haven
9893	Woodruff's 0-14-14 Fertilizer	North Haven
9897	Woodruff's 5-8-7 Fertilizer	North Haven
9896	Woodruff's 5-10-10 Fertilizer	North Haven
90	Woodruff's 7-7-7 Fertilizer	North Haven
9368	Woodruff's Lawn & Tree Food 10-5-5	Hamden
9877	Woodruff's Tobacco Fertilizer 6-3-6	North Haven

¹Deficiencies are in bold face type.

CONTAINING NITROGEN, PHOSPHORIC ACID AND POTASH¹

Per cent nitrogen					Per cent phosphoric acid			Per cent potash		
In nitrates	In ammonia	Organic water-soluble	Organic water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total	Magnesium
0.54	3.00	0.04	0.44	4.02	0.98	12.20	11.18	.....	.....	.....
.....	0.04	0.43	5.06	5.53	1.15	5.21	4.06	.....	.....	.....
0.62	3.56	0.60	0.22	5.00	0.35	8.18	7.83	7.17	7.40	.....
.....	4.06	0.49	0.27	4.82	0.73	10.80	10.07	4.13	5.22	.....
0.12	2.32	2.96	2.50	7.90	0.98	8.08	7.10	4.53	4.81	.....
.....	0.56	4.88	2.28	7.72	0.73	7.15	6.42	4.93	5.92	.....
0.46	2.20	7.64	2.04	12.34	0.55	7.10	6.55	4.42	4.68	.....
0.39	3.02	6.98	1.46	11.85	0.60	7.13	6.53	3.67	5.03	.....
0.62	4.64	2.64	2.00	9.90	0.58	7.33	6.75	4.87	4.87	.....
0.13	2.28	1.26	1.52	5.21	1.10	11.35	10.25	4.61	5.57	.....
.....	.....	.....	.....	.....	0.80	16.45	15.65	9.18	11.58	.....
0.29	3.94	0.42	0.72	5.37	0.63	8.68	8.05	7.29	9.32	.....
.....	4.08	0.35	0.57	5.00	0.93	11.65	10.72	7.88	10.01	.....
0.94	4.18	0.24	0.46	5.82	0.78	7.93	7.15	4.94	7.50	.....
0.23	2.28	7.44	1.18	11.13	0.75	6.43	5.68	4.99	5.16	.....
1.75	0.24	2.20	2.43	6.62	0.55	4.68	4.13	0.50	7.77	.....

TABLE 6. ANALYSES OF SHEEP MANURE, ETC.¹

Station No.	Manufacturer and brand	Place of sampling
9784	Pulverized Sheep Manure. The American Agricultural Chemical Co., North Weymouth, Mass.	Torrington: The E. J. Kelley Co.
9705	Liberty Sheep Manure. Apothecaries Hall Co., Waterbury, Conn.	Suffield: The Spencer Co. ...
9385 ⁴	Armour Sheep Manure. Armour Fertilizer Works, Atlanta, Ga.	Southbury: Southbury Training School
9532	Armour Sheep Manure. Armour Fertilizer Works, Atlanta, Ga.	Greenwich: McArdle's Seed Co.
9574	DRICONURE. Atkins & Durbrow, Inc., New York, N. Y.	New London: The Eaton & Wilson Co.
9653	Corenco Dried Cow Manure. Consolidated Rendering Co., Boston, Mass.	Rockville: Ellington-Vernon Farmers Exchange, Inc. ...
9378	Corenco Sheep Manure. Consolidated Rendering Co., Boston, Mass.	Seymour: Seymour Grain & Coal Co.
9699	Corenco Sheep Manure. Consolidated Rendering Co., Boston, Mass.	Windsor Locks: Carlisle
9545	Davey Shredded Cattle Manure. The Davey Tree Expert Co., Kent, Ohio	Old Greenwich: The Davey Tree Expert Co.
9452	Lebanon Cow Manure. Lebanon Chemical Corp., Lebanon, Pa.	Hartford: Cadwell & Jones, Inc.
9453	Lebanon Cow Manure. Lebanon Chemical Corp., Lebanon, Pa.	Hartford: Cadwell & Jones, Inc.
9558	Ramshorn Brand Sheep Manure. Natural Plant Foods Co., Oklahoma City, Okla. ...	Pawcatuck: C. W. Campbell Co.
9659	O & W Sheep Manure. Olds & Whipple, Inc., Hartford, Conn.	Stafford Springs: George W. Stevens
9640	O & W Sheep Manure. Olds & Whipple, Inc., Hartford, Conn.	Manchester: Blish Hardware Co.
9723	Wizard Brand Sheep Manure. The Pulverized Manure Co., Chicago, Ill.	Thompsonville: Brainard Nursery & Seed Co.
9472	Gro-Fast Cow Manure. The Rogers & Hubbard Co., Portland, Conn.	Meriden: J. E. Raven Hardware Co.
9571	Gro-Fast Sheep Manure. The Rogers & Hubbard Co., Portland, Conn.	Centerbrook: S. M. Prann, Inc.
9772	Farmanure. Wendell S. Still, Selden, L. I., N. Y.	Norwalk: Libner Grain Co., Inc.
9770	Pulverized Sheep Manure. Swift & Co., Chicago, Ill.	Darien: Rings End Fuel Co.
9344	Bovung. Walker-Gordon Laboratory Co., Plainsboro, N. J.	New Haven: The Frank S. Platt Co.

¹Deficiencies are in bold face type.²Guaranteed available, 0.25%.³Guaranteed available, 1.0%.⁴State purchase.

TABLE 6. ANALYSES OF SHEEP MANURE, ETC.¹

In ammonia	Per cent nitrogen				Per cent phosphoric acid				Per cent potash		Sand
	Organic water-soluble	Organic water-insoluble	Total found	Total guaranteed	Citrate-insoluble	Total found	Total guaranteed	So-called "available" found	Total found	Total guaranteed	
0.20	0.27	1.06	1.53	1.25	...	1.44	1.00	...	4.10	2.00	29.30
0.14	0.25	1.14	1.53	1.00	0.83	1.66	...	0.83 ^a	4.62	1.00	32.27
0.08	0.58	1.10	1.76	1.25	...	1.35	1.00	...	4.55	2.00	27.50
0.04	0.32	1.10	1.46	1.25	...	1.81	1.00	...	4.75	2.00	28.30
0.44	1.15	2.61	4.20	1.00	0.85	4.03	...	3.18 ^a	2.51	1.00	7.65
0.06	...	1.44	1.50	2.00	0.58	1.13	...	0.55 ^a	1.93	1.00	44.66
0.24	0.23	1.67	2.14	2.00	0.93	2.10	1.00	1.17 ^a	2.70	2.00	17.06
0.16	0.50	1.69	2.35	2.00	0.93	2.15	1.00	1.22 ^a	3.17	2.00	14.95
0.64	0.97	2.75	4.36	2.00	...	3.89	1.00	...	2.48	1.00	1.35
0.24	0.10	2.07	2.41	2.00	0.50	1.23	...	0.73 ^a	3.08	1.00	23.65
0.12	0.31	1.75	2.18	2.00	0.28	1.26	...	0.98 ^a	1.15	1.00	1.07
0.00	0.69	1.75	2.44	2.00	...	1.46	1.00	...	3.20	2.00	17.45
0.04	0.38	1.21	1.63	...	0.50	1.29	...	0.79	2.28	...	29.84
0.10	0.00	1.03	1.13	1.25	0.63	1.31	...	0.68 ^a	3.09	2.00	33.02
0.16	0.36	1.60	2.12	2.00	0.75	1.90	...	1.15 ^a	3.10	2.00	19.55
0.14	0.18	1.73	2.05	2.00	...	1.49	1.00	...	1.38	1.00	2.00
0.08	0.10	0.94	1.12	1.25	0.45	0.98	1.00	0.53	2.83	2.00	35.70
0.30	1.37	2.02	3.69	2.00	1.58	3.20	...	1.62 ^a	1.66	1.00	6.14
0.04	0.35	1.36	1.75	2.00	0.55	1.55	...	1.00 ^a	2.62	2.00	35.36
0.16	0.51	1.65	2.32	2.00	0.88	1.98	...	1.10 ^a	2.43	1.00	2.00

TABLE 7. ANALYSES OF LIMESTONE AND SIMILAR MATERIALS

Station No.	Manufacturer and brand	Sampled from stock of or sent by	Calcium oxide, per cent	Magnesium oxide, per cent
Apothecaries Hall Co., Waterbury, Conn.				
8037	Land Plaster	Suffield: Hatheway-Steane Corp.	34.41	.....
9004	Land Plaster	Suffield: Hatheway-Steane Corp.	33.67	.....
Connecticut Adamant Plaster Co., New Haven, Conn.				
8352	Land Plaster	Simsbury: Cullman Bros., Inc.	32.83	.....
8432	Land Plaster	Simsbury: Cullman Bros., Inc.	34.39	.....
8433	Land Plaster	Simsbury: Cullman Bros., Inc.	33.18	.....
8475	Land Plaster	Simsbury: Cullman Bros., Inc.	33.93	.....
8476	Land Plaster	Simsbury: Cullman Bros., Inc.	34.70	.....
Fairfield County P M A Committee, Danbury, Conn.				
6752	Lime	Danbury: Fairfield County P M A Committee	31.30	15.10
New England Lime Co., Adams, Mass.				
8350	High Calcium Hydrated Lime	Simsbury: Cullman Bros., Inc.	73.24	0.45
8351	High Calcium Hydrated Lime	Simsbury: Cullman Bros., Inc.	74.21	0.42
8515	Hydrated Lime	Hartford: Hatheway-Steane Corp.	46.95	31.65
9005	Hydrated Lime	Hartford: Hatheway-Steane Corp.	45.59	31.16

TABLE 8. ANALYSES OF SMALL PACKAGE FERTILIZERS¹

Station No.	Manufacturer and brand	Place of sampling	Per cent nitrogen				Per cent phosphoric acid			Per cent potash		
			In nitrate	In ammonia	Organic water-soluble	Organic water-insoluble	Total	Citrate-insoluble	Total		So-called ²	
The American Agricultural Chemical Co., North Weymouth, Mass.												
9375	Agrico for Broadleaf Evergreens 6-10-4	Hamden	0.18	4.92	0.04	0.95	6.09	1.10	11.65	10.55	4.30	4.30
9417	Agrico for Gardens 5-10-5	New Haven	0.00	4.44	0.43	0.28	5.15	1.10	11.25	10.15	5.31	5.31
9805	Agrico Rose Food 5-9-6	West Hartford	0.45	2.40	0.88	1.95	5.68	1.03	9.95	8.92	6.03	6.11
American Cyanamid Co., New York, N. Y.												
9816	Garden Cyanamid 20-0-0	West Hartford	.....	.....	.....	.....	19.26	.....	.....	.....	.....	.....
Apothecaries Hall Co., Waterbury, Conn.												
9716	Green Gro Home Garden Fertilizer 5-8-7	Suffield	0.16	4.40	0.40	0.54	5.50	1.03	9.60	8.57	6.59	7.06
9636	Green Gro 3-Way 3 Lawn Dressing 6-10-4	Putnam	0.18	4.54	0.46	0.73	5.91	0.83	12.10	11.27	5.37	6.14
9576	Green Gro Raw Bone Meal	New London	.....	0.08	.....	.....	4.22 ^a	.....	23.90 ^a	.....	.....	.....
9575	Green Gro Rose Food 5-7-6	New London	0.27	3.60	0.46	1.09	5.42	0.83	9.48	8.65	6.35	6.35
9380 ⁴	Green Gro Sheep Manure 1.0-0.25-1.0	Seymour	0.00	0.08	0.34	1.28	1.70	0.50	1.40	0.90	0.84	2.51
9643 ⁵	Liberty Brand Acid Soil Maker (Aluminum Sulphate)	Manchester	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹Deficiencies are in bold face type.

²Guaranteed, 3.70%.

³Guaranteed, 20.0%.

⁴Sand, 29.20%.

⁵Aluminum found, 9.46%.

TABLE 8. ANALYSES OF SMALL PACKAGE FERTILIZERS¹

Station No.	Manufacturer and brand	Place of sampling	Per cent nitrogen					Per cent phosphoric acid			Per cent potash	
			In nitrates	In ammonia	Organic water-soluble	Organic water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
	Armour Fertilizer Works, Atlanta, Ga.											
9798 ^a	Armour Bone Meal	Norwich .....	...	0.04	...	...	2.64	...	24.80	...	...	...
9587	Armour Vertagreen Plant Food 5-10-5	New London ...	0.15	4.44	0.28	0.21	5.08	0.63	11.90	11.27	1.26	5.54
	Atkins & Durbrow, Inc. New York, N. Y.											
9379 ^a	A. & D. Driconure 2-1-1	Seymour	0.00	0.16	0.65	2.00	2.81	0.70	4.78	4.08	0.86	1.59
	Brainard Nursery & Seed Co., Thompsonville, Conn.											
9731	For Your Garden Fertilizer Root Crop 5-10-10	Thompsonville ..	0.75	3.92	0.42	0.35	5.44	0.50	11.35	10.85	7.24	10.19
	Joseph Breck & Sons Corp. Boston, Mass.											
9553	Breck's Quick-Life 14-30-16 (Water Soluble)	Mystic	0.00	10.28	3.08	0.00	13.36	0.38	30.60	30.22	17.80	23.56
9647	Breck's Quick Life 16-32-16 Instant Plant Food	Manchester	0.00	7.60	8.64	0.02	16.26	0.40	30.50	30.10	17.46	17.46
	Cadwell & Jones, Inc., Hartford, Conn.											
9457	Muriate of Potash	Hartford .....	...	...	...	...	...	...	...	...	...	61.04 ^a
	California Spray-Chemical Corp., Richmond, Calif.											
9649	Ortho-Gro Liquid Plant Food 10-5-5	Manchester	0.00	0.63	9.97	0.00	10.60	0.65	5.20	4.55	...	4.90

Carbola Chemical Co., Inc., Natural Bridge, N. Y.												
9569	CCC Triple Plant Food 20-20-20	Pawcatuck	4.24	7.92	8.72	0.00	20.88	0.45	20.00	19.55	...	20.76
Central Chemical Corp., Lebanon, Pa.												
9655 ⁵	Farmrite Bone Meal	Rockville	...	0.00	...	...	2.69	...	24.90	...	...	...
9462 ⁸	Farmrite Cow Manure 2-1-1	Hartford	0.00	0.00	0.23	1.70	1.93	0.43	0.99	0.56	0.69	3.04
9654 ⁷	Farmrite Sheep Manure	Rockville	0.00	0.04	0.33	1.10	1.47	...	1.26	...	...	2.94
Clinton Nurseries, Clinton, Conn.												
9431	New Era African Violet Food 5-12-9	Branford	3.60	2.44	0.00	0.05	6.09	0.30	12.15	11.85	...	11.43
9668 ⁸	New Era Cow Manure 1.5-1.0-1.0	Newtown	0.00	0.00	0.28	0.61	0.89	0.35	0.90	0.55	...	1.28
9413	New Era Plant Food 5-12-9	Middletown	2.66	2.68	0.88	0.20	6.42	0.53	14.00	13.47	9.04	9.04
9432	New Era Rose Food 5-10-5	Branford	0.35	4.64	0.58	0.27	5.84	0.63	11.20	10.57	4.73	5.57
Consolidated Rendering Co., Boston, Mass.												
9700 ⁹	Corenco Ground Bone	Windsor Locks	...	0.04	...	...	1.90	...	30.30	...	...	...
9787	Corenco Landscape Fertilizer 8-6-4	Torrington	0.00	5.42	1.48	0.79	7.69	0.75	6.83	6.08	3.43	4.65
9667	Corenco Rose Special 5-10-5	Newtown	0.00	2.14	1.93	1.05	5.12	1.25	12.10	10.85	5.26	5.44
De Witts Chemical Co., Kingston, Pa.												
9430	De Witts Chem. Grow Plant Food 10-52-17	Branford	0.29	8.96	...	0.14	9.39	0.45	46.00	45.55	0.80	15.34
The Doughton Seed Co., Jersey City, N. J.												
9819	Faith Soil-Food with Insect Control 5-9-4	West Hartford	0.31	1.32	0.76	2.95	5.34	0.63	8.95	8.32	4.53	5.34

¹Deficiencies are in bold face type.²Guaranteed: Total nitrogen, 2.30%; total phosphoric acid, 23.0%. Mechanical Analysis: Fine, 49%; coarse, 51%.³Sand, 11.27%.⁴No guaranty.⁵Guaranteed: Nitrogen, 2.30%; total phosphoric acid, 20.0%.⁶Sand, 21.23%.⁷Guaranteed: Nitrogen, 1.5%; total phosphoric acid, 1.0%; potash, 2.0%. Found: Sand, 49.48%.⁸Sand, 60.55%.⁹Guaranteed: Nitrogen, 2.0%; total phosphoric acid, 22.0%. Mechanical analysis: Fine, 61.0%; coarse, 39.0%.

TABLE 8. ANALYSES OF SMALL PACKAGE FERTILIZERS¹

Station No.	Manufacturer and brand	Place of sampling	Per cent nitrogen				Per cent phosphoric acid			Per cent potash		
			In nitrates	In ammonia	Organic water-soluble	Organic water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
	E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.											
9412	Du Pont Soluble Plant Food 19-22-16	Middletown	4.62	4.88	10.12	0.22	19.84	0.93	23.35	22.42	...	16.86
	Eastern States Farmers' Exchange, Inc., West Springfield, Mass.											
9436	Eastern States Starter 64 16-32-16	North Haven	5.05	7.60	3.68	0.03	16.36	0.48	33.45	32.97	...	16.72
	Faesy & Besthoff, Inc., New York, N. Y.											
9642 ²	F. & B. Pure Bone Meal	Manchester . . . .	...	0.00	...	...	2.24	...	29.00	...	...	...
	Feralon Div., Oswego Soy Products Corp., Oswego, N. Y.											
9651	Feralon 6-10-4 Organic Plant Food & Soil Conditioner	Manchester	1.84	0.16	3.02	2.16	7.18	0.38	11.65	11.27	...	5.57
	Ferro Corp., Cleveland, Ohio											
9579 ³	F.T.E. (Fritted Trace Elements)	New London . . . .	...	...	...	...	...	...	...	...	...	...
	Garden Research Laboratories, New York, N. Y.											
9683	RX-15 (Concentrated Water Soluble) 15-30-15	Danbury	0.00	6.72	8.20	0.18	15.10	0.83	31.50	30.67	13.13	15.00

Goulard & Olena, Inc., Skillman, N. J.												
9367 ^a	G. & O. Ground Bone	New Haven	2.74	25.00								
9376	G. & O. Muriate of Potash	Hamden										48.60 ^b
9820	G. & O. Rhodo-Azalea-Camellia-Holly-Blueberry Food 3-20-3	West Hartford ..	0.00	1.88	0.53	1.17	3.58	0.83	21.00	20.17	3.05	3.35
9730	G. & O. Rose Food 7-8-5	Thompsonville ..	0.18	5.72	0.44	1.19	7.53	0.80	8.35	7.55	4.38	5.54
9799	G. & O. Tomato-Food 3-12-13	Norwich	0.00	2.62	0.60	0.75	3.97	1.10	17.90	16.80	9.08	10.78
Green Thumb Products, Toledo, Ohio												
9800	Green Thumb African Violet Plant Food 12-5-8	Norwich	0.00	11.04	1.48	0.62	13.14	0.78	7.05	6.27	6.87	8.56
A. H. Hoffman, Inc., Landisville, Pa.												
9652 ^a	Hoffman Cow Manure 2-1-1	Manchester	0.00	0.12	0.49	1.32	1.93	0.50	1.75	1.25	0.40	2.74
9543 ^b	Hoffman Poultry Manure	Greenwich	0.00	0.24	1.40	3.08	4.72		4.65			2.48
9660 ^a	Hoffman Raw Bone Meal	Stafford Springs ..		0.00			4.50		17.80			
9542	Hoffman Rose Food 5-10-5	Greenwich	0.00	4.02	0.24	1.17	5.43	0.80	11.25	10.45	4.38	5.97
9650 ^b	Hoffman Sheep Manure	Manchester	0.00	0.04	0.25	1.45	1.74		1.24			3.89
Hydroponic Chemical Co., Inc., Copley, Ohio												
9539	Hyponex Plant Food (Soluble Powder) 7-6-19	Greenwich	5.86	1.32	0.24	0.04	7.46	0.40	7.50	7.10		20.33
The Hy-Trous Corp., Boston, Mass.												
9362	Hy-Trous Liquid Fertilizer 4-8-4 ..	New Haven	1.64	1.58	0.75	0.00	3.97	0.40	6.90	6.50	0.90	4.84

¹Deficiencies are in bold face type.

²Guaranteed: Nitrogen, 2.47%; total phosphoric acid, 23.0%. Mechanical analysis: Fine, 67.0%; coarse, 33.0%.

³Boron guaranteed, 0.62%, found, 0.61%; copper guaranteed, 3.20%, found, 3.54%; iron guaranteed, 7.00%, found, 7.59%; magnesium guaranteed, 2.52%, found, 2.95%; molybdenum guaranteed, 0.13%, found, 0.10%; zinc guaranteed, 3.20%, found, 3.32%.

⁴Guaranteed: Nitrogen, 2.4%; total phosphoric acid, 20.0%. Mechanical analysis: Fine, 47.0%; coarse, 53.0%.

⁵Guaranteed: Potash, 60.0%.

⁶Sand, 2.27%.

⁷Guaranteed: Nitrogen, 3.0%; total phosphoric acid, 1.0%; potash, 1.5%. Found: Sand, 3.65%.

⁸Guaranteed: Nitrogen, 3.7%; total phosphoric acid, 20.0%. Mechanical analysis: Fine, 35.0%; coarse, 65.0%.

⁹Guaranteed: Nitrogen, 1.5%; total phosphoric acid, 1.0%; potash, 2.0%. Found: Sand, 27.36%.

TABLE 8. ANALYSES OF SMALL PACKAGE FERTILIZERS¹⁾

Station No.	Manufacturer and brand	Place of sampling	Per cent nitrogen					Per cent phosphoric acid			Per cent potash	
			In nitrates	In ammonia	Organic water-soluble	Organic water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
	McCormick & Co., Inc., Baltimore, Md.											
9411	Hy-Gro 13-26-13	Middletown	1.40	4.88	7.32	0.00	13.60	0.63	23.55	22.82	6.43	15.21
9669	Hy-Gro 13-26-13	Newtown	2.22	5.12	6.90	0.00	14.24	0.45	25.40	24.95	4.17	14.83
	Miller Chemical & Fertilizer Corp., Baltimore, Md.											
9606	VHPF Soluble Fertilizer 6-25-15 ..	Milford	4.47	1.24	0.10	0.15	5.96	0.65	27.90	27.25	...	15.23
	Monsanto Chemical Co., St. Louis, Mo.											
9366	Folium 20-20-20	Newtown	6.84	4.76	8.76	0.00	20.36	0.58	18.45	17.87	...	20.13
9471	Folium 20-20-20	Meriden	6.62	5.56	8.20	0.00	20.38	0.28	18.90	18.62	...	21.16
	Natural Plant Food Co., Oklahoma City, Okla.											
9567 ²⁾	Longhorn Brand Cattle Manure	Pawcatuck	0.00	0.08	0.24	1.84	2.16	...	1.65	...	...	6.07
9568 ³⁾	Ramshorn Brand Sheep Manure	Pawcatuck	0.00	0.02	0.26	1.83	2.11	...	1.58	...	...	3.10
	Nott Mfg. Co., Mount Vernon, N. Y.											
9612	Nott's Plant Shoot 20-20-20	Bridgeport	1.66	3.96	14.72	0.18	20.52	0.60	16.40	15.80	21.53	21.53
9470 ⁴⁾	Nott's Soilife (Wettable Powder) ..	Yalesville .....	...	0.10	...	...	4.14	...	0.03	...	...	1.42
	Nutritional Concentrates, Inc., Pittsburgh, Pa.											
9611	Fertilize Soluble Plant Food 20-10-20	Bridgeport	3.96	0.72	15.96	0.06	20.70	0.70	11.80	11.10	0.17	18.98

Olds & Whipple, Inc., Hartford, Conn.													
9552 ⁵	O. & W. Bone Meal	Mystic						2.37		29.20			
9860	O. & W. Garden Fertilizer 5-10-5 ..	East Hartford ..	0.24	3.92	0.12	0.35	4.63	0.80	14.85	14.05	3.48	4.27	
9867	O. & W. General Purpose Fertilizer 5-8-7	East Hartford ..	0.70	3.96	0.32	0.30	5.28	0.53	9.70	9.17	7.20	8.39	
Plantabbs Corp., Baltimore, Md.													
9572	Fultons Plantabbs Plant Food Tab- lets 11-15-20	Centerbrook	7.18	4.00	0.04	0.14	11.36	0.40	20.70	20.30		23.70	
The Frank S. Platt Co., New Haven, Conn.													
9347 ⁶	Bone Meal	New Haven					2.26		28.80				
9346	Platco Special 5-8-7 Fertilizer	New Haven	1.06	3.76	0.16	0.25	5.23	0.93	9.10	8.17	5.87	7.57	
Ra-Pid-Gro Corp., Dansville, N. Y.													
9455	Ra-Pid-Gro 23-21-17	Hartford	4.54	4.24	15.88	0.22	24.88	0.40	16.45	16.05		17.40	
The Rogers & Hubbard Co., Portland, Conn.													
9469	Gro-Fast Acid Fertilizer 4-10-4	Yalesville	0.00	2.20	1.29	1.47	4.96	0.48	10.55	10.07	3.98	4.55	
9646 ⁷	Gro-Fast Aluminum Sulphate	Manchester											
9369 ⁸	Gro-Fast Bone Meal	Hamden					2.40		27.75				
9586 ⁹	Gro-Fast Cow Manure	New London	0.00	0.04	0.46	2.04	2.54	0.45	1.85	1.40		1.50	
9573 ¹⁰	Gro-Fast Sheep Manure	Centerbrook	0.00	0.08	0.41	1.51	2.00	0.65	1.05	0.40	2.12	3.17	
9958	Gro-Fast Sol. Water-Soluble Concentrate Plant Food 16-20-16 ..	Portland	0.00	5.60	10.40	0.00	16.00	0.70	21.60	20.90	18.17	20.76	

¹Deficiencies are in bold face type.

²Guaranteed: Nitrogen, 2.0%; total phosphoric acid, 1.0%; potash, 2.0%. Found: Sand, 16.57%.

³Guaranteed: Nitrogen, 2.0%; total phosphoric acid, 1.0%; potash, 2.0%. Found: Sand, 23.23%.

⁴pH, 7.8; moisture, 8.29%; ash, 40.80%; solids, 91.71%.

⁵Guaranteed: Nitrogen, 2.47%; total phosphoric acid, 22.0%. Mechanical analysis: Fine, 32.0%; coarse, 68.0%.

⁶Guaranteed: Nitrogen, 3.70%; total phosphoric acid, 20.0%. Mechanical analysis: Fine, 72.0%; coarse, 28.0%.

⁷Aluminum guaranteed, 9.0%; found, 9.12%.

⁸Guaranteed: Nitrogen, 2.0%; total phosphoric acid, 23.0%.

⁹Guaranteed: Nitrogen, 2.0%; total phosphoric acid, 1.0%; potash, 1.0%. Found: Sand, 3.32%.

¹⁰Guaranteed: Nitrogen, 1.25%; total phosphoric acid, 1.0%; potash, 2.0%. Found: Sand, 31.80%.

TABLE 8. ANALYSES OF SMALL PACKAGE FERTILIZERS¹

Station No.	Manufacturer and brand	Place of sampling	Per cent nitrogen					Per cent phosphoric acid			Per cent potash	
			In nitrates	In ammonia	Organic water-soluble	Organic water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
9775	Roigina Products, Lincoln, Nebraska Roigina African Violet Plant Food 11-4-8	Bristol	1.90	0.00	0.66	8.44	11.00	0.48	9.05	8.57	...	12.01
9748	Rose City Nursery, Tyler, Texas Pride of the Garden Rose Food 4-12-4	New Haven	0.00	2.00	0.16	1.38	3.54	1.28	21.15	19.87	3.16	3.89
9541	Rose Manufacturing Co., Beacon, N. Y. Tri-Ogen Rose Food 5-10-5	Greenwich	0.00	3.18	1.65	0.27	5.10	1.25	12.90	11.65	2.38	6.59
9754	Sears, Roebuck & Co., Chicago, Ill. Cross Country Plant Food 4-12-4 ...	Stamford	0.17	4.00	0.48	0.54	5.19	0.85	11.65	10.80	5.13	6.04
9752	Cross Country Plant Food 5-10-5 ...	Stamford	0.25	3.76	0.88	0.41	5.30	0.70	11.70	11.00	5.22	5.80
9751	Cross Country Rose Food 5-10-5 ...	Stamford	0.46	4.04	0.36	0.65	5.51	0.83	11.25	10.42	5.50	7.77
9753 ^a	Cross Country Sheep Manure	Stamford .....	...	0.32	0.26	1.75	2.33	...	1.41	...	...	2.57
9588	O. M. Scott & Sons Co., Marysville, Ohio Scott's Weed & Feed 7-11-5	New London ...	0.00	4.40	0.18	3.23	7.81	0.65	10.50	9.85	4.93	6.07
9361 ^a	Wendell S. Still, Selden, L. I., N. Y. Farmanure 2-1-1	New Haven	0.00	0.44	0.86	1.94	3.24	0.75	3.31	2.56	...	2.10

Stern's Garden Products, Inc., Geneva, N. Y.												
9540	Stern's Miracle-Gro (Water-Soluble Plant Food) 15-30-15	Greenwich	0.00	6.24	8.82	0.02	15.08	0.25	29.70	29.45	11.06	15.23
Stim-U-Plant Laboratories, Inc., Columbus, Ohio												
9648	Stim-U-Plant (Tablets) 11-12-15	Manchester	8.06	3.92	...	0.02	12.00	0.68	21.00	20.32	...	26.76
Swift & Company, Plant Food Div., Boston, Mass.												
9427	Instant Vigoro 19-28-14	Guilford	4.24	5.24	10.22	0.18	19.88	0.33	23.65	23.32	...	15.75
9696	Vigoro 5-10-5	Windsor Locks ..	0.39	4.76	...	0.25	5.40	1.13	11.70	10.57	4.37	5.47
9551	Vigoro 5-10-5	Mystic	0.41	4.72	...	0.15	5.28	1.05	11.10	10.05	5.40	7.33
9556	Vigoro 5-10-5	Mystic	0.53	5.28	0.05	0.25	6.11	0.93	10.80	9.87	5.11	5.77
Universal Chemical Co., (Organic Div.), Lynn, Mass.												
9456	Electra Plant Food 5-10-3	Hartford	0.00	2.40	1.06	2.14	5.60	0.65	10.90	10.25	3.21	3.89
Walker-Gordon Laboratory Co., Plainsboro, N. J.												
9618 ⁴	Bovung 2-1-1	Bridgeport	0.00	0.16	0.37	1.50	2.03	0.38	1.85	1.47	0.39	2.36

¹Deficiencies are in bold face type.

²Guaranteed: Nitrogen, 1.5%; total phosphoric acid, 0.75%; potash, 2.0%. Found: Sand, 17.80%.

³Sand, 4.66%.

⁴Sand, 2.06%.

TABLE 9. ANALYSES OF OTHER MISCELLANEOUS MATERIALS

Station No.	Material	Nitrogen per cent	Total phosphoric acid, per cent	"Available" phosphoric acid, per cent	Water-soluble potash per cent	Chlorine per cent	Moisture per cent	Ash per cent	Calcium per cent	Magnesium per cent	Manganese per cent	Iron per cent	Aluminum per cent	Zinc per cent	Sodium per cent	Copper parts per million	Boron per cent
9724	Aluminum sulfate "Braco"												9.52 ¹				
8993	"Bactage" compost fertilizer	2.67	4.73		1.95												
974	By-product of cotton mattress manufacturing	3.34															
9409	Chicken litter	2.53	1.70		1.54		33.00										
8735	"Chiguano"	1.76	2.80		1.71		46.00										
8930	"Chiguano"	0.85	10.26		0.40												
9529	"Chiguano"	1.04 ²	11.00	2.40 ²	0.54 ²	0.17											
7846	Composted poultry manure	1.08	3.25		0.88		49.40										
6705	Cubes in which to plant seeds	0.53	0.77		0.68												
8679	"Cultured" chicken manure		3.20	trace					3.10	0.70	0.035	0.15	0.15		0.14	33	0.008
9935	Fairfield sewage sludge (filter cake)		1.69						1.25	0.26	0.075	1.50	0.40	0.34		1,000	0.065
265	Fertilizer	0.06	0.43		62.76												
331	Fertilizer	6.63	5.00		6.82												
9335	Fertilizer combined with organic material	0.64	0.40		0.57												
8994	Final product "Chiguano" fertilizer	1.00	10.60	2.62	0.75	0.22											

9728	"For Your Garden" al- uminum sulphate										9.46 ¹						
6418	Ground trap rock		0.05		0.36 ²			1.50	1.50	0.05	high	high	0.01	present	100	trace	
9948	Liquid fertilizer 10-8-6	10.18	7.95	7.95	6.14												
459	Monoammonium phos- phate	12.00	66.20	66.20													
94	Peat				0.18	87.11	3.33								0.12		
95	Peat				0.55	82.47	11.28								0.36		
96	Peat				0.48	88.03	5.12								0.31		
97	Peat				0.68	82.34	11.08								0.43		
9961	Peat moss							0.90	0.06								
9962	Peat moss							1.85	0.24								
9963	Peat moss							1.50	0.23								
8039	Potash spar																
7845	Poultry manure com- posted with trap rock	1.02	3.80		0.44	48.93											
8929	Rabbit manure and peat moss	0.49	0.64		0.27	80.00											
9665	Refined borax, agricul- tural mesh																11.00 ⁵
7201	Saybrook peat	1.24	0.08		0.22	4.15											
220	Sewage sludge		1.26					1.60	0.31	0.022	0.10	0.04	0.02		70	0.005	
221	Sewage sludge		1.26					1.50	0.35	0.019	0.19	0.15	0.02		40	0.004	
222	Sewage sludge		1.40					3.90	0.16	0.013	1.70	0.34	0.37		1,500	0.012	
223	Sewage sludge		2.13					6.50	0.31	0.023	3.00	0.80	0.49		1,800	0.020	
224	Sewage sludge		1.63					1.00	0.09	0.011	0.75	0.31	0.17		650	0.012	
225	Sewage sludge		1.15					1.00	0.07	0.009	0.57	0.27	0.09		600	0.008	
226	Sewage sludge		1.79					6.80	0.24	0.020	0.90	0.21	0.25		880	0.018	

¹Guaranteed, 8.50%.²Guaranteed, 1.00%.³Total potash, 0.88%; much silicon, some titanium, and traces of molybdenum, nickel and silver.⁴Total potash, 6.46%.⁵Guaranteed, 11.3%.

TABLE 9. ANALYSES OF OTHER MISCELLANEOUS MATERIALS

Station No.	Material	Nitrogen per cent	Total phosphoric acid, per cent	"Available" phosphoric acid, per cent	Water-soluble potash, per cent	Chlorine per cent	Moisture per cent	Ash per cent	Calcium per cent	Magnesium per cent	Manganese per cent	Iron per cent	Aluminum per cent	Zinc per cent	Sodium per cent	Copper parts per million	Boron per cent
227	Sewage sludge		1.65						6.50	0.26	0.019	0.63	0.16	0.22		770	0.015
228	Sewage sludge		0.76						0.50	0.03	0.005	0.57	0.25	0.17		770	0.007
229	Sewage sludge		1.24						5.00	0.16	0.013	1.90	0.48	0.42		1,400	0.014
230	Sewage sludge		2.06						1.40	0.60	0.015	0.12	0.05	0.02		80	0.004
231	Sewage sludge		2.75						0.80	0.06	0.007	1.30	1.00	0.27		1,400	0.007
297	Sewage sludge	2.52	1.18		0.17												
311	Sewage sludge		3.21						2.60	0.12	0.005	0.60	0.28	0.04		200	0.010
9318	Sewage sludge from City Point Plant, New Haven	2.25	1.58		0.33			49.52	1.30	0.20	0.013	0.25	0.10	0.22		500	0.010
7792	Sewage sludge from Middletown (1950)		1.69						0.90	0.36	0.018	2.49	0.83	1.09		1,800 ¹	0.015
7789	Sewage sludge from New Canaan (1950)		2.06						1.35	0.25	0.030	1.07	0.53	0.54		1,200 ²	0.015
7791	Sewage sludge from New London (1950)		1.26						1.70	0.18	0.020	1.12	0.42	0.47		1,000 ²	0.012
7790	Sewage sludge from Plainfield (1950)		1.21						1.30	0.26	0.010	0.70	0.39	1.50		1,100 ¹	0.010
7793	Sewage sludge from Wallingford (1953)		0.94						1.75	0.25	0.020	0.82	0.45	0.80		1,200 ³	0.009
8616	Tobacco stems	3.65	0.86		11.32												
9848	Tobacco stems	2.76	0.60		7.33												
755	Trace element product		0.37		0.00		26.93	69.15	1.70	0.44	0.020	1.00	0.60			50	0.020

¹Nickel, 0.003%; chromium, 0.005%.²Nickel, 0.004%; chromium, 0.005%.³Nickel, 0.035%; chromium, 0.12%.

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