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REPORT ON INSPECTION AND ANALYSIS OF  
COMMERCIAL FERTILIZERS

1962

H. J. Fisher, Chief Chemist<sup>1</sup>

CONNECTICUT LAW AND REGULATIONS REGARDING  
COMMERCIAL FERTILIZERS

The term "commercial fertilizers", as used in the Connecticut fertilizer statute, includes "any and every substance imported, manufactured, prepared or sold for fertilizing or manuring or soil amendment purposes, except barnyard manure and stable manure which have not been artificially treated or manipulated, marl and lime." An amendment of the law in 1949 permitted fertilizers to be labelled with guaranties of elements other than nitrogen, phosphorus and potassium, but did not change the requirement that mixed fertilizers must contain at least 0.82 per cent of nitrogen, and 1 per cent of either phosphoric acid or potash, for guaranties of these elements to be made. Phosphorus must be declared as available phosphoric acid (except in the case of bone, tankage and other natural organic materials, where total phosphoric acid is guaranteed), and potassium as water-soluble potash; all other elements must be guaranteed in terms of percentages of the elements, not as oxides or salts. A registration fee of \$10.00, payable annually, is charged for each element guaranteed in each brand of fertilizer; there is also a six cent tonnage tax, payable semiannually.

While manufacturers usually register their own fertilizers, if a retailer sells a fertilizer manufactured by an out-of-state firm, and that firm refuses to register, under the law the retailer is responsible for registration fees and tonnage taxes. The retailer, therefore, should assure himself that the requirements of the law have been met by the manufacturers of the brands which he handles, or himself be prepared to meet all these requirements.

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

Cottonseed, linseed, peanut and soybean oil meals, when sold or used for fertilizer purposes must be registered as fertilizers and the specified

<sup>1</sup> Analyses were made by Messrs. Richard A. Botsford, Sherman Squires, Werner Mueller and Walter Oliver and Miss Helen Kocaba; inspection and sampling by Mr. R. Richard Nichols; compilations by Mrs. Anthony Montano and Mrs. Marshall S. B. Brown.

fees paid thereon. For such products the registration fee is \$10.00 per brand. This fee and the tonnage tax are entirely apart from the registration fee required by the feeding stuffs law for vegetable meals used as feeds (there is no tonnage tax on feeds).

Because manufacturers or jobbers do not know how much, if any, of their vegetable meal tonnage is sold or used as fertilizers, local dealers and purchasers report their sales or purchases to this Station. This 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

For 1962, 123 firms and individuals registered 545 brands of fertilizer at this Station for sale in the State. As required by statute, the brands are listed as follows:

A- PENN OIL CO., Butler, Pa.

(Registered by International Minerals & Chemicals Corp.,  
Woburn, Mass.)

Marvel Green Lawn Builder 20-10-5

AGRICULTURAL PRODUCTS CO., INC., West Kingston, R. I.

APCO Ground Bone Meal  
Blue Ribbon 5-10-5 Fertilizer Lawn-Garden  
Comet Lawn & Garden Fertilizer 5-10-5  
Golden Comet 8-6-4 Lawn Food  
Guardian 8-6-4 Gro-Green Lawn Fertilizer  
Spur Lawn & Garden Fertilizer 5-10-5  
Super Turf King 8-6-4  
Turf King Lawn & Garden Fertilizer 5-10-5

AGRICULTURAL SUPPLY CO., 221 Richmond Ave., West Haven, Conn.

Yale Special Mixture  
Yale Special Mixture with Chlordane

ALASKA FERTILIZER CO., 84 Seneca St., Seattle 1, Wash.

Alaska 100% Organic Deodorized Fish Fertilizer

ALLIED CHEMICAL CORP., Nitrogen Division, P. O. Drawer 61, Hopewell, Va.

"Arcadian" A-N-L Fertilizer Compound  
"Arcadian" Golden Uran 30 Solution  
"Arcadian" Golden Uran 32 Solution  
"Arcadian" Nitrana Solution 2  
"Arcadian" Nitrana Solution 3  
"Arcadian" Nitrana Solution 4  
"Arcadian" Nitrana U Solution  
"Arcadian" Nitrate of Soda  
"Arcadian" Pelleted Ammonium Nitrate  
"Arcadian" Urea 45 Fertilizer Compound (Pelleted)

AMERICAN AGRICULTURAL CHEMICAL CO., 285 River St., North Weymouth 91, Mass.

AA Plant Food 5-10-5  
AA Plant Food 10-6-4  
AA Quality Fertilizer 0-15-30  
AA Quality Fertilizer 0-20-20  
AA Quality Fertilizer 0-25-25  
AA Quality Fertilizer 5-10-5  
AA Quality Fertilizer 8-16-16  
AA Quality Fertilizer 10-6-4  
AA Quality Fertilizer 10-10-10  
AA Quality Fertilizer 15-10-10  
AA Quality Fertilizer 5-10-10 with 1.2 Magnesium  
Agrico A. C. R. Fertilizer 6-10-4  
Agrico Country Club 8-6-4  
Agrico Country Club 16-8-8  
Agrico Country Club Fertilizer 10-6-4  
Agrico Country Club Fertilizer 12-4-8  
Agrico Evergreen Fertilizer  
Agrico for Corn  
Agrico for Gardens 5-10-5  
Agrico for Lawns, Trees & Shrubs 6-10-4  
Agrico for New England 5-8-7  
Agrico for Potatoes 5-10-10 with 1.2 Magnesium  
Agrico for Seeding Down 5-20-20  
Agrico for Topdressing 7-7-7  
Agrico for Topdressing 15-10-10  
Agrico for Turf 6-8-2  
Agrico Grass Food 10-6-4

AMERICAN AGRICULTURAL CHEMICAL CO., 285 River St.,  
North Weymouth 91, Mass. - Cont.

Agrico House Plant Food 17-17-17  
Agrico Insect Control with Fertilizer  
Agrico Phosphate & Potash 0-15-30  
Agrico Phosphate & Potash 0-20-20  
Agrico Rose Food 5-9-6  
Agrico Tonic for Lawns  
Agrico Water Soluble Plant Food  
Agrico Weed Control with Fertilizer  
Agrinite  
Agri-Phos 20% Superphosphate  
Ground Phosphate Rock  
Homestead Farm Style Multi-Purpose Fertilizer 5-10-5  
Superphosphate, 18% Normal

AMERICAN CYANAMID CO., P. O. Box 400, Princeton, N. J.

AERO Cyanamid, Granular  
AERO-PHOS 18-46-0 Diammonium Phosphate  
AERO Phosphoric Acid  
AEROPRILLS, Ammonium Nitrate Fertilizer  
AERO Urea Coated Prills  
Amanol Solutions  
Trebo-Phos Triple Superphosphate

AMERICAN HUMATES, INC., Fidelity Union Tower, Dallas 1, Tex.

Aqua Humus

ARMOUR AGRICULTURAL CHEMICAL CO., Box 10, Carteret, N. J.

Armour Armorganic Plant Food  
Armour Big Crop Fertilizer 0-20-20  
Armour Big Crop Fertilizer 5-8-7  
Armour Big Crop Fertilizer 5-10-5  
Armour Big Crop Fertilizer 5-10-10  
Armour Big Crop Fertilizer 7-7-7  
Armour Big Crop Fertilizer 10-10-10  
Armour Big Crop Superphosphate  
Armour Bone Meal Fertilizer  
Armour Cattle Manure  
Armour Gold Bond Tobacco Grower  
Armour Home & Garden Special 5-10-5  
Armour Lawn Special 10-6-4  
Armour Lightweight Vertagreen Lawn Fertilizer 20-10-10  
Armour Sheep Manure  
Armour Vertagreen for Acid-Loving Plants 5-10-10  
Armour Vertagreen Lawn Food 6-10-4 (25% Organic  
Nitrogen)  
Armour Vertagreen 10-6-4 for Turf (60% Organic  
Nitrogen)

ARMOUR AGRICULTURAL CHEMICAL CO., Box 10, Carteret,  
N. J. - Cont.

Armour Vertagreen Plant Food 5-10-5 with 2, 4-D  
Weed Killer  
Armour Vertagreen Plant Food for Commercial Crops  
6-12-12  
Armour Vertagreen Plant Food for Commercial Crops  
Tobacco Special 6-4-7  
Armour Vertagreen Plant Food for Lawns & Gardens  
5-10-5  
Armour Vertagreen Plant Food for Turf & Trees 10-6-4  
Armour Vertagreen Rose Food 5-10-5  
Armour Vertagreen Turf Food with Chlordane  
Armour Vertagreen Turf Formula 8-6-2 (50% Organic  
Nitrogen)

ASGROW SEED CO., 272 George St., New Haven, Conn.

Gro-Sod Lawn Food  
Timberturf  
Weed-Nix Lawn Food

H. J. BAKER & BROS., INC., 733 Third Ave., New York 17, N. Y.

Cobelaz Urea

BAKER CASTOR OIL CO., 40 Avenue A, Bayonne, N. J.

(Registered by Hubbard-Hall Chemical Co., Waterbury,  
Conn.)

Baker's Castor Pomace

F. A. BARTLETT TREE EXPERT CO., 2770 Summer St.,  
Stamford, Conn.

Bartlett Green Tree Food

BAUGH CHEMICAL CO., 25 S. Calvert St., Baltimore 2, Md.

Ground Undissolved Phosphate Rock

BELMONT FEED CO., Cos-Cob, Conn.

Belmont's Cottonseed Meal 41%

BLACKSTONE GUANO CO., INC., 2000 Chesapeake Ave.,  
Baltimore 26, Md.

Blackstone Fair Lawn 50% Organic  
Blackstone Fair Lawn 20-10-5  
Blackstone Ranch Home



THE BORDEN CO., Chemical Div., 350 Madison Ave.,  
New York 17, N. Y.

Borden's "38"

JOSEPH BRECK & SONS, 401 Summer St., Boston 10, Mass.

Breck's Feed No Weed with 2, 4-D plus 2, 4, 5-T  
Breck's Garden-Gro  
Breck's Greenite (all organic)  
Breck's New Improved Turf-Gro  
Breck's Quick Life  
Breck's Turf-Gro

BROOKSIDE NURSERIES, INC., 228 Brookside Rd., Darien, Conn.

Brookside's Bone Meal  
Brookside's Horn Shavings & Meal  
Brookside's Natures Evergreen  
Brookside's Natures Nutrients  
Brookside's Natures Thrift Food

W. ATLEE BURPEE CO., 18th & Hunting Park Ave.,  
Philadelphia, Pa.

Burpee Lawn Food 20-10-5

CADWELL & JONES, INC., 199 Walnut St., Hartford, Conn.

C & J Hi Organic Fertilizer 10-6-4  
C & J Lawn Food with Weed Killer  
C & J Plant Food 5-10-5

CALIFORNIA CHEMICAL CO., Ortho Div., Lucas and Ortho Way,  
Richmond 4, Cal.

Ortho-Gro Liquid Plant Food 10-5-5  
Ortho-Gro Liquid Plant Food 15-5-5  
Ortho Liquid Evergreen & Azalea Food 10-8-7  
Ortho Liquid Rose Food 8-12-4  
Ortho 18-46-0 Pelleted Fertilizer  
Ortho Prilled Ammonium Nitrate Fertilizer  
Ortho Triple Superphosphate  
Ortho Unipel 10-20-20 Pelleted Fertilizer  
Ortho Unipel 14-14-14 Pelleted Fertilizer  
Ortho Unipel 16-48-9 Pelleted Fertilizer  
Ortho Unipel 20-10-10 Pelleted Fertilizer  
Ortho Unipel 20-20-0 Pelleted Fertilizer  
Ortho Unipel 22-22-0 Pelleted Fertilizer

CARBOLA CHEMICAL CO., INC., Natural Bridge, N. Y.

Carbola CCC Triple 20 Plant Food

CARGILL, INC., 200 Grain Exchange Bldg., Minneapolis, Minn.

Cargill 44% Protein Soybean Meal Solvent Extracted

PETER CASCIO NURSERY, INC., 2600 Albany Ave., West  
Hartford, Conn.

Cascio's High Organic 10-6-4 Lawn Food  
Cascio's Organite  
Cascio's Professional 5-10-5 Lawn Food

CENTRAL SOYA, Fort Wayne, Ind.

Forty Four 44% Solvent Extracted Soybean Meal

CHILEAN NITRATE SALES CORP., 120 Broadway,  
New York 5, N. Y.

Chilean Nitrate of Soda - Champion Brand  
Chilean Nitrate of Soda-Potash - Champion Brand

CLORO-SPRAY CORP., 2215 N. American St., Philadelphia 33, Pa.

Cloro-Spray  
Fairway-Spray 15-10-5

COCKE & CO., 208 William Oliver Bldg., Atlanta 3, Ga.

Cocke-Sure Brand Prime Quality 41% Protein  
Cottonseed Meal

CONSOLIDATED RENDERING CO., 178 Atlantic Ave., Boston 10,  
Mass.

Corenco 0-15-30  
Corenco 0-20-20  
Corenco 5-8-7  
Corenco 5-10-5  
Corenco 5-10-5 Home Garden & Lawn Starter  
Corenco 5-10-5 Rose Special  
Corenco 5-10-10 Liquid Fertilizer Concentrate  
Corenco 5-10-10  
Corenco 5-10-10 1.2 mag.  
Corenco 6-3-6 Perfection Tobacco Grower  
Corenco 6-3-6 Premium Tobacco Grower  
Corenco 6-8-8 1.2 mag.  
Corenco 7-7-7  
Corenco 7-7-7 Rhododendron  
Corenco 8-6-4 Landscape  
Corenco 8-6-4 Turf Green  
Corenco 8-12-12 .9 mag.  
Corenco 8-16-16  
Corenco 10-5-5 Liquid Green  
Corenco 10-6-4 Golf & Lawn

CONSOLIDATE RENDERING CO., 178 Atlantic Ave., Boston 10,  
Mass. - Cont.

Corenco 10-10-10  
Corenco 15-10-10  
Corenco Ground Bone  
Corenco Muriate of Potash  
Corenco Organic Turf Fertilizer  
Corenco Sheep Manure with Inert Matter  
Corenco Spurz-On  
Corenco Sulphate of Ammonia  
Corenco Sulphate of Potash  
Corenco Superphosphate 20%  
Corenco Timberline 10-8-2  
Corenco Turf Green 8-6-4 with Chlordane  
Cottonseed Meal

THE DAVEY TREE EXPERT CO., 117 S. Water St., Kent, Ohio

Davey Shredded Cattle Manure  
Davey Tree Food

DAVISON CHEMICAL CO., Div. W. R. Grace & Co., Hill Plant,  
Baltimore 26, Md.

0-15-30 Davco Granulated Fertilizer  
0-20-20 Davco Granulated Fertilizer  
5-10-5 Davco Granulated Garden Food  
5-10-10 Davco Granulated 3G Fertilizer  
8-16-16 Davco Granulated 3G Fertilizer  
10-6-4 Davco Granulated 3-G Fertilizer  
10-10-10 Davco Granulated 3G Fertilizer  
15-10-10 Davco Granulated 3G Fertilizer  
Davco Granulated 20% Superphosphate  
Wonder Gro Lawn & Ornamental Plant Food 20-10-5

DAYTON FERTILIZER CORP., Georges Rd., Dayton, N. J.

Grand Garden Fertilizer 6-10-4  
Grand Lawn Fertilizer 10-6-4 40% Organic  
Grand Lawn Lightweight Fertilizer 15-7-5  
Lawn Treat 5-10-5

THE DOUGHTON SEED CO., 253 Brunswick St., Jersey City 2, N. J.

Doughten's Allganic 4-6-2  
Doughten's Lawn Food 9-8-3

E. I. du PONT de NEMOURS & CO., 6054 du Pont Bldg.,  
Wilmington, Del.

Du Pont Nu Green Urea Fertilizer  
Du Pont Rose Food 8-8-8  
Du Pont Soluble Plant Food 19-22-16

E. I. du PONT de NEMOURS & CO., 6054 du Pont Bldg.,  
Wilmington, Del. - cont.

Du Pont Turf Food 20-10-10  
Du Pont Turf Food 20-10-10 with 2, 4-D Weed Killer  
Du Pont Uramite Ureaform Fertilizer  
Du Pont Uramite M Ureaform Fertilizer  
Du Pont Urea Nitrogen Fertilizer

EASTERN DEHYDRATING CO., Route 7, Lexington, N. C.

Dehydrated Sheep Manure  
Fertal-Gro (Dehydrated Cow Manure)

EASTERN STATES FARMERS' EXCHANGE, INC., 26 Central St.,  
West Springfield, Mass.

Eastern States 0-10-30 W/B  
Eastern States 0-10-30 W/B with 0.3% Heptachlor  
Eastern States 0-25-25  
Eastern States 5-10-10  
Eastern States 8-16-16  
Eastern States 10-10-10 with .6 Magnesium  
Eastern States 10-10-10- LC with 1.2 Magnesium  
Eastern States 10-15-15 with 1.2 Magnesium  
Eastern States 10-15-15 LC with 1.2 Magnesium  
Eastern States 10-20-10 with .6 Magnesium  
Eastern States 10-20-20  
Eastern States 15-10-10  
Eastern States 15-15-15  
Eastern States Green Lawn 10-5-5  
Eastern States Green Lawn with Dacthal  
Eastern States Lawn Special 10-6-4  
Eastern States Muriate of Potash 60%  
Eastern States Start-N-Gro  
Eastern States Sulfate of Ammonia  
Eastern States 20% Superphosphate

EASTMAN GELATINE CORP., 227 Washington St., Peabody, Mass.

Dicalcium Phosphate

EDGEWOOD FARMS, INC., Marysville, Ohio

Edgewood Farms Boost  
Edgewood Farms Rose Food

THE ESPOMA CO., P. O. Box 431, Millville, N. J.

Bulb-Tone  
Espoma Organic 3-2-1  
Espoma Rose Food  
Garden Tone  
Holly-Tone  
Turf-Tone 10-6-4

FAESY & BESTHOFF, INC., 25 East 26th St., New York 10, N. Y.

F & B All Purpose Pelletized 10-6-4  
 F & B Azalea-Camellia-Rhododendron Food  
 F & B Cottonseed Meal  
 F & B Evergreen Food 7-7-7  
 F & B Garden Food  
 F & B Pure Steamed Bone Meal  
 F & B Rose Food

FEDERAL CHEMICAL CO., Bennett & Clayton Div., Prospect Plains, Cranbury, N. J.

General Green 20-10-5  
 Lawn & Garden 5-10-5  
 Lawn & Garden 10-6-4  
 Lawn & Garden 50% Organic Nitrogen  
 Lawn Life  
 New Garden Crest Lawn & Garden Fertilizer 5-10-5  
 New Garden Crest Lawn & Garden Fertilizer 10-6-4  
 New Garden Crest Lawn & Garden Fertilizer  
 (25% Organic Nitrogen)  
 Princeton Park 5-10-5 Lawn & Garden Fertilizer  
 Rose Food

FIRST NATIONAL STORES, INC., East Hartford, Conn.

(Registered by Hubbard-Hall Chemical Co., Waterbury, Conn.)

Emerald Green Evergreen Food  
 Emerald Green Lawn Food  
 Emerald Green Plant Food  
 Emerald Green Rose Food

THE GARDEN CENTER, INC., 53 LaSalle Rd., West Hartford, Conn.

The Garden Center Lawn Food 10-6-4

GEIGY AGRICULTURAL CHEMICALS, Saw Mill River Rd., Ardsley, N. Y.

Sequestrene 138 Fe Iron Chelate  
 Sequestrene 330 Fe Iron Chelate  
 Sequestrene Na<sub>2</sub>Cu Copper Chelate  
 Sequestrene NaFe Iron Chelate  
 Sequestrene Na<sub>2</sub>Mn Manganese Chelate  
 Sequestrene Na<sub>2</sub>Zn Zinc Chelate

GLEN TERRACE NURSERIES, INC., 1960 Whitney Ave., Hamden, Conn.

Glen Terrace Lawn Food

GLORION DIVISION, Aluminum & Chemical Corp., Greenwich, Conn.

Glorion

GLOUCESTER BY PRODUCTS, INC., Gloucester, Mass.

Globpro Brand 60% Protein Fish Meal

GODFREY'S GARDEN SHOP, 1630 Post Rd., Fairfield, Conn.

Godfrey's Lawn & Tree Food

GOLDENROD OIL MEAL SALES CO., 727 Beale St., Memphis, Tenn.

Goldenrod Brand 41% Protein Cottonseed Meal

GOULARD & OLENA, INC., Skillman, N. J.

G & O Blue Ribbon for Fine Lawns, Flowers, Shrubs & Vegetables  
 G & O Bone Meal  
 G & O Bulb Food  
 G & O Evergreen Food  
 G & O Green Ribbon 10-6-4  
 G & O Hyganic Lawn Food 10-6-4  
 G & O Light Fantastic Lawn Food 20-6-4  
 G & O Plant Food for Acid Loving Plants  
 G & O Prizegro for Gardens  
 G & O Raw Ground Bone  
 G & O Rose Food  
 G & O Tomato Food  
 G & O Turf Food & Insecticide 10-6-4 with Chlordane  
 Goulard's Formula 8-15-5

W. R. GRACE & CO., Nitrogen Products Div., 147 Jefferson Ave., Memphis 3, Tenn.

Grace Urea Prills  
 Grace Urea Prills - 46

GREENLIFE PRODUCTS CO., West Point, Va.

Greenlife Plant Food

GREEN RIBBON PRODUCTS CO., Sackett Point Rd., North Haven, Conn.

Green Ribbon All Purpose Plant Food 5-10-5  
 Green Ribbon Lawn Food 10-6-4

HALSTEAD DISTRIBUTING CORP., Sutons La., Mt. Kisco, N. Y.

Just Right 5-10-5  
 Just Right 10-6-4

THE CHARLES C. HART SEED CO., 304 Main St., Wethersfield,  
Conn.

Deane's Formula 22-35X  
Hart's All Organic  
Hart's All Purpose Plant Food  
Hart's Crabgrass Seed Killer & Lawn Fertilizer  
Hart's Rose Food  
Hart's Turf Food  
Hart's Two-For-One

HAYNIE PRODUCTS, INC., 108 East York St., Baltimore 30, Md.

Hi-Seas Menhaden Fish Meal with Butylated Hydroxy  
Toluene

HERCULES POWDER CO., Hercules Tower, 90 Market St.,  
Wilmington 99, Del.

Hercules-Nitroform

HERSHEY ESTATES, INC., Hershey, Pa.

Ko-K-O Meal

A. H. HOFFMAN, INC., Landisville, Pa.

Hoffman Cow Manure  
(Dehydrated)  
Hoffman Sheep Manure (Dehydrated)  
Hoffman 2-17-0 Sterilized Bone Meal

HOLDRIDGE FARM NURSERY, Route 27, R. D. 4, Ledyard,  
Conn.

(Registered by Goulard & Olena, Inc., Skillman, N. J.)

Holdridge 20-6-4 Turf Food

THE HUBBARD-HALL CHEMICAL CO., 28 Benedict St.,  
Waterbury, Conn.

Castor Pomace  
Cotton Hull Ashes  
Domestic Precipitated Bone  
Dry Ground Fish  
Green Gro Lawn Fertilizer 6-7-4  
HH Blade Lawn Food with Urea-Form  
HH Bone Meal 2-23%  
HH Bulb Food  
HH Cow Manure  
HH Evergreen Food 4-10-4  
HH Gro-Fast Sol Water Soluble Concentrate 16-20-16  
HH Gro Mor Garden Fertilizer

THE HUBBARD-HALL CHEMICAL CO., 28 Benedict St.,  
Waterbury, Conn. - Cont.

HH Lawn Fertilizer with Chlordane  
HH Luxura Lawn Food with Urea-Form  
HH Nitrogranic  
HH Plant Food  
HH Rose Food  
HH Sheep Manure  
HH Turf & Tree Food  
HH Weed-Kil Lawn Food with 2, 4-D  
Lawn Craft 8-6-4 Turf Food  
Lawn Craft 10-6-4 Turf Food  
Liberty 18-46-0 Diammonium Phosphate  
Liberty Fertilizer 0-15-30  
Liberty Fertilizer 0-20-20  
Liberty Fertilizer 0-25-25  
Liberty Fertilizer 5-8-7  
Liberty Fertilizer 5-10-5  
Liberty Fertilizer 5-10-10  
Liberty Fertilizer 5-10-10 with 8 lbs. of Actual Aldrin  
per ton  
Liberty Fertilizer 5-10-10 1.2 mag.  
Liberty Fertilizer 6-8-8 1.2 mag.  
Liberty Fertilizer 7-7-7  
Liberty Fertilizer 8-12-12 1.2 mag.  
Liberty Fertilizer 8-16-16  
Liberty Fertilizer 10-6-4  
Liberty Fertilizer 10-10-10  
Liberty Fertilizer 15-10-10  
Liberty Fertilizer 15-15-15  
Liberty Fertilizer 16-8-16  
Liberty Super Corn 10-10-10  
Liberty Super Gro 5-10-10 1.2 mag.  
Liberty Super Gro 8-16-16  
Liberty Super Spud 6-8-8 1.2 mag.  
Liberty Super Spud 8-10-10 1.2 mag.  
Liberty Super Spud "500" 5-8-8 1.2 mag.  
Liberty Super Tobacco Fertilizer 6-4-7 1.2 mag.  
Liberty Tobacco Fertilizer 6-3-6  
Liberty Triple Superphosphate  
Muriate of Potash  
Nitrate of Potash  
Sulphate of Potash  
Superphosphate, 20%  
Urea 46%  
Woodruff's Lawn & Tree Food

INTERNATIONAL MINERALS & CHEMICAL CORP., 316 New  
Boston St., Woburn, Mass.

Fertilis All Purpose Plant Food 5-10-5  
Sul-Po-Mag



SPENCER KELLOGG AND SONS, INC., 120 Delaware Ave.,  
Buffalo, N. Y.

Spencer Kellogg's 32% Protein Old Process (Expeller)  
Linseed Meal

KEN-BRIS FARMS, INC., 701 South Front St., Philadelphia 47, Pa.

Society Hill Lawn Feeder  
Society Hill Weeder-Feeder

LAWN & GRASS SEEDS, INC., 52 Leslie St., Buffalo 10, N. Y.

Fabulawn Brand Lawn Fertilizer  
Fabulawn Brand Weed & Feed

LAWN-TEX, INC., 1640 W. Fulton St., Chicago, Ill.

Organi-Green

LEBANON CHEMICAL CORP., P. O. Box 532, Lebanon, Pa.

Granulated 20% Superphosphate  
Lebanon Azalea & Evergreen Fertilizer with Chelated  
Iron

Lebanon Azalea Food  
Lebanon Bone Meal  
Lebanon Cow Manure  
Lebanon Crab Seed Killer & Lawn Fertilizer 10-6-4  
Lebanon Fertilizer 5-10-10  
Lebanon Hi-Organic  
Lebanon Plant Food  
Lebanon Rose Food  
Lebanon Sheep Manure  
Lebanon Truck Crop  
Lebanon Turf Organic  
Lebanon Uni-Form  
Pennsylvania Dutch 5-10-5  
Pennsylvania Dutch 10-6-4

LEE PATTEN SEED CO., 360 Ninth St., Jersey City 2, N. J.

Patco's Allganic 4-6-2  
Patco's Chek 10-6-4 with Diphenatril  
Patco's Combo with 2, 4-D plus 2, 4, 5-T  
Patco's Featherweight (Lawn Food)  
Patco Lawn Food 9-8-3

LUZERNE FERTILIZER CO., P. O. Box 74, Nescopeck, Pa.

(Registered by Consolidated Rendering Co., Boston, Mass.)

Luzerne All Purpose Plant Food 5-10-5

McARDLE'S SEED CO., 388 Greenwich Ave., Greenwich, Conn.

McArdle's 10-6-4

McNAIRS FARMS, Fairley St., Laurinburg, N. C.

McNairs' Organure

THE MAMLON CO., P. O. Box 3046, New Haven, Conn.

FER-MEL General Purpose Plant Food  
FER-MEL Lawn Food  
FER-MEL Water Soluble Turf & Tree Food

MONSANTO CHEMICAL CO., 800 N. Lindbergh Blvd.,  
St. Louis 66, Mo.

Diammonium Phosphate 21-53-0  
Monoammonium Phosphate 12-61-0 Fertilizer  
Monsanto Ammonia Nitrate Fertilizer  
Monsanto Prilled Urea Fertilizer 45-0-0

NATURAL DEVELOPMENT CO., Perry Hall, Md.

Fertrell, Blue Label  
Fertrell, Gold Label  
Fertrell, Super  
Fertrell, Super "N"

NATURAL PLANT FOOD CO., 1409 N.W. 50th St.,  
Oklahoma City, Okla.

Longhorn Brand Cattle Manure  
Ramshorn Brand Sheep Manure

OLD FOX AGRICULTURAL SALES, INC., 66 Valley St.,  
East Providence, R. I.

Green Lawn  
Old Fox Brand Acid Soils  
Old Fox Brand 0-15-30  
Old Fox Brand 0-20-0 (Superphosphate)  
Old Fox Brand 0-20-20  
Old Fox Brand 4-16-20  
Old Fox Brand 5-10-5  
Old Fox Brand 5-10-10  
Old Fox Brand 5-10-10 1.2 mag.  
Old Fox Brand 6-3-6  
Old Fox Brand 6-3-6 1.2 mag.  
Old Fox Brand 6-8-8 1.2 mag.  
Old Fox Brand 6-10-10 1.2 mag.  
Old Fox Brand 7-7-7  
Old Fox Brand 8-6-2



OLD FOX AGRICULTURAL SALES, INC., 66 Valley St.,  
East Providence, R. I.

Old Fox Brand 8-10-10 1.2 Mag.  
Old Fox Brand 8-16-16  
Old Fox Brand 10-6-4  
Old Fox Brand 10-10-10  
Old Fox Brand 15-10-10  
Old Fox Brand No Pest  
Old Fox Brand Rose Food  
Old Fox Organo  
Steamed Bone Meal

OLIN MATHIESON CHEMICAL CORP., P. O. Box 991,  
Little Rock, Ark.

Ammo-Phos  
Mathieson 5-10-5  
Mathieson 5-10-10  
Mathieson Pilleitized Urea Fertilizer 45%

ORGANIC COMPOST CORPORATION OF PENNSYLVANIA,  
P. O. Box 261, Oxford, Pa.

Fertie Cattle Manure Compost  
Fertie Sheep Manure Compost  
Gardener's Cow Manure Compost  
Gardener's Sheep Manure Compost

PAX COMPANY, P. O. Box 2310, Salt Lake City 10, Utah

New Pax Crabgrass and Soil Pest Control  
PAX Pride  
PAX Snap Bak (for lawns only)

JOHN J. PEPIN & CO., 314 Cotton Exchange Bldg., Memphis,  
Tenn.

"Pepco Brand" 41% Protein Cottonseed Meal Prime Quality

PERK-UP PRODUCTS CO., South Deerfield, Mass.

Perk-up Lawn Food 10-6-4  
Perk-up Plant Food 5-10-5

ROBERT B. PETERS CO., 2833 Pennsylvania St., Allentown, Pa.

Peters Special 13-6-6  
Peters Special 20-5-30  
Peters Special 20-20-20  
Peters Special 25-10-10

PLANTERS OIL MILL, Tunica, Miss.

41% Protein Cottonseed Meal Prime Quality

PRIDE OF THE VALLEY MILLS, Vernon, N. J.

Fiestar

RA-PID-GRO CORP., 88 Ossian St., Dansville, N. Y.

Ra-Pid-Gro

RENZULLI BROS. GARDEN CENTER, 297 Westport Ave.,  
Norwalk, Conn.

(Registered by Goulard & Olena, Inc., Skillman, N. J.)

Renzulli Bros. Lawn Food

ST. LOUIS NATIONAL STOCKYARDS CO., Exchange Bldg.,  
National Stock Yards, Ill.

Wizard Brand Cow Manure  
Wizard Brand Sheep Manure

O. M. SCOTT & SONS CO., Marysville, Ohio

Bonus  
Dawn  
Turf Builder

SEABOARD SEED CO., 701 S. Front St., Philadelphia 47, Pa.

Seaboard's Complete Lawn & Plant Food  
Seaboard's Hi-Acid Plant Food 8-14-6  
Seaboard's Lawn Feeding Weed Killer

SEARS, ROEBUCK & CO., 925 S. Homan Ave., D/671,  
Chicago 7, Ill.

Cross Country Azalea Food  
Cross Country Bone Meal  
Cross Country Bulb Food  
Cross Country Crabgrass Plant Killer with Lawn Food  
Cross Country Economy Fertilizer  
Cross Country Evergreen Food  
Cross Country Instant Plant Food  
Cross Country Instant Rose Food  
Cross Country Instant Tomato Food  
Cross Country Lawn Food  
Cross Country Lawn Quick Green 10-6-4  
Cross Country Liquid Plant Food  
Cross Country Merion Bluegrass Lawn Food  
Cross Country Organic Cattle Manure Compost  
Cross Country Organic Sheep Manure Compost  
Cross Country Plant Food  
Cross Country Rose Food  
Cross Country Sulfate of Ammonia  
Cross Country Superfine Lawn Food

SEARS, ROEBUCK & CO., 925 S. Homan Ave., D/671,  
Chicago 7, Ill. - Cont.

Cross Country Weed Killer with Lawn Food

SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE,  
P. O. Box 2079, Milwaukee 1, Wis.

Milorganite (50 lb. bag size)  
Milorganite Plus 2, 4-D

THE SHERWIN-WILLIAMS CO., 101 Prospect Ave., N. W.,  
Cleveland, Ohio

Sherwin-Williams 34% Linseed Oil Meal (Solvent Extr.)

M. L. SHOEMAKER, Div. Wilson & Co., Delaware & Venango Sts.,  
Philadelphia, Pa.

M. L. Shoemaker's "Swift-Sure"

THE SOUTHERN COTTON OIL CO., Div. Hunt Foods &  
Industries, Inc., 738 West Union St., Greenville, Miss.

Sco-Co 41% Protein Cottonseed Meal

THE STANFORD SEED CO., 560 Fulton St., Buffalo, N. Y.

Stanford Lawn & Plant Food 20-10-5  
Stanford Weed & Feed 10-6-4 plus 1% 2, 4-D

STERN'S GARDEN PRODUCTS, INC., 404 William St.,  
Geneva, N. Y.

Miracid  
Miracle-Gro  
Miracle-Gro for Roses

STIM-U-PLANT LABORATORIES, INC., 2077 Parkwood Ave.,  
Columbus 19, Ohio

Stim-U-Plant 5-8-7  
Stim-U-Plant 11-12-15

STOP & SHOP, INC., West Hartford, Conn.

Green Carpet Lawn Food 12-5-7  
Green Carpet Plant Food 8-12-6

SWIFT & CO., Agrichem Division, P. O. Box 1404,  
New Haven 5, Conn.

All Purpose Vigoro  
Golden Rod

SWIFT & CO., Agrichem Division, P. O. Box 1404,  
New Haven 5, Conn. - Cont.

Golden Vigoro  
Golden Vigoro with End-O-Pest  
Instant Vigoro  
Instant Vigoro Rose Food  
Par-Ex  
Pink Vigoro  
Vigoro Bulb Food  
Vigoro Evergreen Food  
Vigoro for Azaleas & Camellias  
Vigoro Rose Food  
Vitogro  
Vitogro Lawn Pest Control & Plant Food  
Vitogro Lawn Weeder & Feeder

SWISS FARMS, Philmont, N. Y.

African Violet Food  
Plantdrops Liquid  
Plant Food 6-15-11  
Rose Food 6-15-11

THOMPSONVILLE GARDEN CENTER, 787 Enfield St.,  
Thompsonville, Conn.

(Registered by Goulard & Olena, Inc., Skillman, N. J.)

Thompsonville Garden Center 5-10-5  
Thompsonville Garden Center 20-6-4

TOWN & COUNTRY PRODUCTS, 1072 West Side Ave.,  
Jersey City, N. J.

Green Pride Lawn & Plant Food

U. S. BORAX & CHEMICAL CORP., Weed Control Dept.,  
630 S. Shatto Pl., Los Angeles 14, Cal.

(Registered by Eastern States Farmers' Exchange, Inc.,  
West Springfield, Mass.)

20 Mule Team Fertilizer Borate-46 (coarse mesh)

U. S. PHOSPHORIC PRODUCTS, Div. Tennessee Corp.,  
P. O. Box 3269, Tampa 1, Fla.

Tencor Triple "46" Granulated Triple Superphosphate

UNITED STATES STEEL CORP., 525 William Penn Pl.,  
Pittsburgh 30, Pa.

USS Ammonium Sulfate

UNIVERSAL CHEMICAL CO., INC., West Lynn, Mass.

Electra Plant Food 5-10-3

VALLEY FEED & SUPPLY CO., INC., Union Rd., Spring Valley, N. Y.

Adorna 3-1-1  
Adorna Azalea Food 6-10-5  
Adorna Tree Food 8-7-7

VAUGHAN'S SEED CO., 85 White St., New York 13, N. Y.

Vaughan's One Shot Lawn Food

WALGREN TREE EXPERTS, INC., West Hartford, Conn.

Walgren Tree Food 8-6-2

WALKER-GORDON LABORATORY CO., Plainsboro, N. J.

Bovert  
Bovung

OSCAR F. WARNER, 24 E. Aurora St., Waterbury, Conn.

Warner's Grubedizer 8-6-4  
Warner's Lawn Food  
Warner's Tree Food 12-6-4

THE WELLES CO., Box 828, Wake Forest, N. C.

Organic Granules

WESSEL, DUVAL & CO., INC., New York, N. Y.

(Registered by Eastern States Farmer's Exchange, Inc.,  
West Springfield, Mass.)

Wedco Fertilizer Bone Meal

WESTERN AUTO SUPPLY, Kansas City, Mo.

(Registered by L. Teweles Seed Co., Milwaukee 1, Wis.)

Western Auto Revelation 20-10-5

WHITNEY SEED CO., INC., 599-601 Perry St., Buffalo 5, N. Y.

Whitney's Vital Brand Lawn Fertilizer 20-10-5  
Whitney's Vital Brand Weed and Feed

GARFIELD WILLIAMSON, INC., 1072 West Side Ave.,  
Jersey City, N. J.

Plantspur  
Wonderlawn Lawn Food  
Wonderlawn 100% Organic Nitrogen

ANDREW WILSON, INC., Baltusrol Way, Springfield, N. J.

Wilson's Eureka Plant Food

WIRTHMORE STORES, INC., Waltham, Mass.

(Registered by Consolidated Rendering Co., Boston, Mass.)

Organo 10-5-5

S. D. WOODRUFF & SONS OF WETHERSFIELD, INC.,  
304 Main St., Wethersfield, Conn.

Woodruff's Tuf Turf Lawn Fertilizer 20-10-5  
Woodruff's Tuf Turf Turf Food  
Woodruff's Tuf Turf Two-For-One

YAZOO VALLEY OIL MILL, INC., Greenwood, Miss.

41% Solvent Extracted Cottonseed Meal Prime Quality

ZEP MANUFACTURING CORP., Div. of National Linen Service  
Corp., 1310 Seaboard Industrial Blvd., N. W., Box 2015,  
Atlanta 1, Ga.

Zep Liquid Plant Food

## FERTILIZER INSPECTION FOR 1962

The Connecticut fertilizer law does not provide for compulsory limitation of the grades of fertilizer that may be sold in this State, but because it is generally 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 of manufacture and consequent lower prices, the New England agronomists have from time to time compiled lists of recommended fertilizer ratios and minimum grades.

The latest list of ratios, as finally approved at a meeting in Burlington, Vermont on June 19, 1961, and the most common market grades, are as follows:

Ratio	Most Common Grade
0-1-1	0-20-20
0-1-2	0-15-30
0-1-3	0-10-30
0-1-4	0-10-40
0-3-1	0-30-10
1-1-1	10-10-10
1-2-2	5-10-10
1-4-2	3-12-6
2-1-1	10-5-5
2-1-2	6-3-6
2-3-3	8-12-12
3-2-2	15-10-10
3-4-4	6-8-8
4-2-3	16-8-12
4-3-1	8-6-2

Seventy per cent of the mixed fertilizers sold in this State during the 1961-1962 season were of the recommended ratios in grades whose plant food content equalled or exceeded the "most common grades" listed above. Another 18 per cent were concentrated in the four grades 5-10-5, 8-6-4, 8-10-10 and 10-6-4, of which one was on the previous recommended list.

During the past season the Station agent collected samples of all registered brands that could be found on the market. The total number of official samples was 546.

The following tabulation lists the number of samples analyzed (both official and unofficial) of each class of fertilizer, as well as the tonnage sold during the period between July 1, 1961 and June 30, 1962:

## CLASSIFICATION OF FERTILIZER MATERIALS AND FERTILIZER TONNAGE

(Tonnage is for the period of July 1, 1961 to June 30, 1962)

	No. of Samples	Tonnage	
I. Containing chiefly nitrogen:			
Nitrate of ammonia	3	347	
Nitrate of soda	3	262	
Sulphate of ammonia	4	7	
Cyanamid	1	116	
Urea	8	292	
Nitrogen solutions	-	674	
Castor pomace	3	864	
Cottonseed meal	57	4,881	
Dried blood	1	3	
Horn and hoof meal	1	2	
Linseed meal	4	179	
Soybean meal	3	282	
Other materials	7	256	
			8,165
II. Containing chiefly phosphoric acid:			
Superphosphate 18%	-	66	
20%	11	3,532	
46%	3	403	
Dicalcium phosphate	-	50	
Precipitated bone	3	243	
Phosphate rock	2	66	
			4,360
III. Containing chiefly potash:			
Muriate of potash	5	287	
Sulphate of potash	2	142	
Sulphate of potash-magnesia	1	8	
Cotton hull ashes	8	337	
			774
IV. Containing nitrogen and phosphoric acid:			
Dry ground fish	7	479	
Bone meal	15	326	
Diammonium phosphate	1	18	
Other materials	1	1,090	
			1,913
V. Containing nitrogen and potash:			
Nitrate of potash	4	111	
			111
VI. Mixed fertilizers:			
Commercial mixtures	384	48,352 <sup>1</sup>	
Special and home mixtures	31	8,308	
			56,660
VII. Miscellaneous:			
Borax	1	6	
Magnesium sulphate	-	13	
Sheep and cattle manure	18	959	
Limestone and similar materials	6	-	
Fertilizer sold in small packages	78	-	
Other miscellaneous materials	15	-	
Check meals and fertilizers	34	-	
			978
Totals	725		72,961

<sup>1</sup> For distribution of this tonnage see next page



MIXED FERTILIZER TONNAGE  
Grades Approved for Connecticut

Grade	Tons	Grade	Tons
0-10-30	201	10-15-15	250
0-15-30	2,819	10-20-20	455
0-20-20	394	12-12-12	19
0-25-25	256	13-13-13	26
5-10-10	6,178	14-14-14	6
6- 3- 6	2,239	15-10-10	3,776
6- 8- 8	2,099	15-15-15	688
6-12-12	106	16- 8- 8	54
8- 6- 2	672	16- 8-16	28
8-12-12	200	18-18-18	6
8-16-16	1,928	20-10-10	166
10- 5- 5	1,439	20-20-20	10
10-10-10	9,880	24-12-12	37
Total			33,932

Other Grades  
(50 tons or more)

3- 2- 1	52	7- 7- 7	840
4-10- 4	87	8- 6- 4	1,317
4-16-20	204	8-10-10	1,055
5- 4- 0	482	9- 8- 3	68
5- 5- 0	58	10- 6- 4	3,513
5- 8- 7	523	12- 4- 8	80
5- 9- 6	52	12- 5- 7	332
5-10- 5	2,755	20- 6- 4	51
5-20-20	59	20-10- 5	788
6- 8- 6	123	22- 8- 4	129
6-10- 4	778	25-12-10	157
6-10-10	444		
Total			13,947

(Less than 50 tons)

3- 1- 1	32	7-10- 5	27
3-12-12	15	8- 7- 7	6
4- 6- 2	10	8-12- 6	33
4- 6- 4	41	10- 8- 2	10
4- 6- 6	6	10-20-10	26
4-10- 0	20	12- 4- 4	17
5- 6-15	5	12- 6- 4	11
5- 8- 8	24	15- 5- 5	27
6- 4- 7	25	16- 8- 4	5
6- 6- 8	8	16-11-13	7
6- 7- 4	39	17- 4- 4	12
6-10- 5	6	23-21-17	16
7- 8- 5	5	Other grades	40
Total			473
Grand total			48,352

## I. Materials Chiefly Valuable for Nitrogen

Analyses of 58 official samples of nitrogenous materials are given in Table 1. Fifty-one of these met their guaranties and seven were deficient. The substandard samples included five cottonseed meals, one sample of dried blood and one of calcium nitrate.

## II. Materials Chiefly Valuable for Phosphoric Acid

Analyses of ten official samples of 20 per cent superphosphate and three of the 46 per cent grade, three of precipitated bone and two of phosphate rock, are given in Table 2. All samples except one of 20 per cent superphosphate met their guaranties.

## III. Materials Chiefly Valuable for Potash

Six official samples of cotton hull ashes, five of muriate of potash, and one each of sulphate of potash and sulphate of potash-magnesia, were analyzed; results are given in Table 3. All except one sample 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 products, and most of them guarantee only total nitrogen and total phosphoric acid. Fifteen official samples of bone meal, six of dry ground fish, and one each of "Milorganite" (a treated sewage sludge) and diammonium phosphate, were analyzed in 1962. All samples were passed except one of bone meal that was deficient in phosphoric acid. Analyses are given in Table 4.

## V. Materials Supplying Nitrogen and Potash

Two official samples of nitrate of potash and one of nitrate of soda-potash were analyzed; one of the nitrate of potash samples was deficient in nitrogen. Analyses are given in Table 3.

## VI. Mixed Fertilizers

## Commercial Mixtures

Analyses of 335 official samples of mixed fertilizers are given in Table 5. Results are summarized as follows:

Total number of samples		335
Samples deficient in:		
one item	83	
two items	6	89
Percentage of samples meeting all guaranties		73
Total guaranties made <sup>1</sup>		984

<sup>1</sup> Three hundred and fourteen samples with three guaranties and twenty-one with two guaranties (guaranties of minor elements not included).



Guaranties not met:		
nitrogen	39	
phosphoric acid	23	
potash	33	95
Percentage met		90

Ninety per cent of all guaranties for major components were substantially met or exceeded.

Thirty samples guaranteed between 0.6 and 2.4 per cent of magnesium (mostly 1.2 per cent) in addition to the major components; all exceeded their guaranties. Three samples declared between 0.075 and 0.15 per cent of iron; analysis showed between 1.38 and 1.94 per cent—values so high as to bear no relation to the guaranties. One sample declared its boron content to be between 0.3 and 0.5 per cent; analysis showed 0.55 per cent.

#### Special and Home Mixtures

Thirty-one samples of special and home mixtures were analyzed during the year, mostly for tobacco growers. Since the composition of these samples is not 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 not exempt from payment of registration fees and tonnage taxes.

Official samples representing State purchases are indicated in the several tables (which do not, however, include samples taken directly by the State Highway Department). They are summarized as follows:

<u>Materials</u>	<u>No. of samples</u>	<u>Reference</u>
Supplying nitrogen	2	Table 1
Supplying phosphoric acid	3	Table 2
Supplying potash	3	Table 3
Supplying nitrogen and phosphoric acid	2	Table 4
Mixed fertilizers	32	Table 5
Total	42	

#### VII. Miscellaneous

Sheep and cattle manures. Manures must bear guaranties of nitrogen, either total or "available" phosphoric acid, and potash. Of the 18 samples analyzed during the 1961-1962 season, 16 met all guaranties and one each was deficient in nitrogen and potash respectively. Analyses are given in Table 6.

Limestone and similar materials. Because the legal definition of "commercial fertilizers" excludes "marl and lime", no regular inspec-

tion of liming materials is made. Occasional samples of limestone, hydrated lime and gypsum ("land plaster") are analyzed for farmers. Analyses of six such samples are given in Table 8.

Fertilizers sold in small packages. Fertilizers sold only in packages of 10 pounds or less net weight are not required to be registered. As a service to home gardeners, however, such brands of small package fertilizers as come to the attention of our agent are sampled and analyzed. During the 1961-1962 season 78 such samples were analyzed. Sixty-one of these, or 78 per cent met all guaranties, and 93 per cent of the total of 283 guaranties, were met—a higher percentage than that found for fertilizers sold in 100 lb. bags. Analyses are given in Table 7.

Other miscellaneous materials. Sixteen other miscellaneous products were examined; analyses are given in Table 8. This total includes one official sample of borax.

Check meals and fertilizers. Collaboration was continued with the various check analysis programs. Samples analyzed included: Fifteen vegetable meal samples received from the American Oil Chemists' Society; eleven check fertilizers supplied by Law and Company of Atlanta; and eight samples submitted by the Association of Official Agricultural Chemists in connection with a collaborative study of methods.

#### MAINTENANCE OF GUARANTIES

The maintenance of guaranties as compiled from analyses of ingredient materials and mixed goods (Tables 1-7) is shown in the following tabulation. Deficiencies of 0.1 per cent or less in nitrogen, 0.2 per cent or less in phosphoric acid or potash, and 20 per cent of the claimed value in the case of minor elements, are not counted. The proportion of guaranties substantially met was 93 per cent.

	<u>No. of samples</u>	<u>No. of guaranties</u>	<u>Deficiencies</u>
Nitrate of ammonia	3	3	0
Nitrate of soda	3	3	0
Sulphate of ammonia	4	4	0
Cyanamid	1	1	0
Urea	7	7	0
Castor pomace	3	3	0
Cottonseed meal	21	21	5
Linseed meal	4	4	0
Soybean meal	3	3	0
Miscellaneous nitrogenous materials	9	9	2
Superphosphate	13	13	1
Precipitated bone	3	3	0
Phosphate rock	2	2	0
Muriate of potash	5	5	1
Nitrate of potash	2	4	1
Nitrate of soda-potash	1	3	0
Sulphate of potash	1	1	0
Sulphate of potash-magnesia	1	2	0
Cotton hull ashes	6	6	0
Dry ground fish	6	11	0
Bone Meal	15	30	1

	No. of samples	No. of guaranties	Deficiencies
"Milorganite"	1	2	0
Diammonium phosphate	1	2	0
Mixed fertilizer	335	984	95
Sheep and cattle manure	18	54	2
Small package fertilizers	78	283	21
Totals	546	1,463	129
Per cent guaranties met			93

TABLE 1.  
ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per cent nitrogen	
		F	G
NITRATE OF AMMONIA			
6450	AEROPRILLS. American Cyanamid Co., New York, N. Y. State purchase, Conn. Reformatory, Cheshire.	33.44	33.50
6522	AEROPRILLS. American Cyanamid Co., New York, N. Y. State purchase, South- bury Training School, Southbury.	33.60	33.50
6549	AEROPRILLS. American Cyanamid Co., Princeton, N. J. Sampled at Eastern States Farmers' Exchange, Inc., Bethel.	33.52	33.50
NITRATE OF SODA			
6193	Chilean Champion Brand. Chilean Nitrate Sales Corp., New York 5, N. Y. Sampled at Amer. Sumatra Tobacco, Bloomfield. Sodium found 26.39%, guaranteed 26.00%.	16.20	16.00
6645	Chilean Champion Brand. Chilean Nitrate Sales Corp., New York 5, N. Y. Sampled at Birchville Garden, Plainville. Sodium found 26.35%, guaranteed 26.00%.	16.04	16.00
6746	Chilean Champion Brand. Chilean Nitrate Sales Corp., New York 5, N. Y. State purchase, Univ. of Conn. (Landscape Dept.), Storrs. Sodium found 26.68%, guaranteed 26.00%.	16.08	16.00
SULPHATE OF AMMONIA			
6890	Corenco. Consolidated Rendering Co., Boston 10, Mass. Sampled at New Haven Rendering Co., West Haven.	20.56	20.50
6712	Eastern States. Eastern States Farmers' Exchange, Inc., W. Springfield, Mass. Sampled at Eastern States Farmers' Ex- change, Inc., Putnam.	20.52	20.50
6691	The Hubbard-Hall Chemical Co., Water- bury, Conn. Sampled at A. N. Pierson, Inc., Cromwell.	20.56	20.00

TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per cent nitrogen	
		F	G
6635	USS. United States Steel Corp., Pittsburgh, Pa. Sampled at Cadwell & Jones, Inc., Hartford.	21.04	21.00
	CYANAMID		
6930	AERO Cyanamid Granular. American Cyanamid Co. (Agr. Div.), Princeton, N.J. Sampled at Walter W. Simmons & Son, Inc., Granby.	21.12	21.00
	UREA		
6319	AERO Urea Prilled. American Cyanamide Co., New York, N.Y. Sampled at Eastern States Farmers' Exchange, Inc., Willimantic.	45.56	45.00
6259	Baker. Dist. by H. J. Baker & Bros., Inc., New York, N.Y. Sampled at The Hubbard-Hall Chemical Co., North Haven.	46.24	46.00
6810	DuPont Uramite. E. I. du Pont de Nemours & Co., Wilmington 45, Del. Sampled at A. N. Pierson, Inc., Cromwell.	38.08	38.00
6749	Grace Urea Prills. W. R. Grace & Co., Nitrogen Prod. Div., Memphis 3, Tenn. Sampled at Check-R-Board Feed Store, New Milford.	45.60	45.00
6371	Mathieson Pelletized. Olin Mathieson Chemical Corp., Little Rock, Ark. Sampled at Old Fox Agricultural Sales, Inc., Hazardville.	45.92	45.00
6779	Monsanto Urea Prilled. Monsanto Chemical Co., Agr. Chem. Div., St. Louis 66, Mo. Sampled at The Hubbard-Hall Chemical Co., Portland.	45.28	45.00
6286	Bonus. O. M. Scott & Sons, Co., Marysville, Ohio. Sampled at Hamden Garden Center, Hamden.	25.92	25.00

TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per Cent nitrogen	
		F	G
	CASTOR POMACE		
6197	The Hubbard Hall Chemical Co., Waterbury, Conn. Sampled at Amer. Sumatra Tobacco Corp., Bloomfield.	5.80	5.00
6198	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Amer. Sumatra Tobacco Co., Bloomfield.	5.56	5.00
6266	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Eastern States Farmers' Exchange, Inc., North Haven.	5.28	5.00
	COTTONSEED MEAL		
6493	Belmont's 41%. The Belmont Feed Co., Cos-Cob, Conn. Sampled at Belmont Feed Co., Cos-Cob.	6.56	6.56
6149	Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Hatheway & Steane Corp., West Suffield.	6.48	6.56
6150	Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Hatheway & Steane Corp., West Suffield.	<u>6.44</u>	6.56
6157	Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Hatheway & Steane Corp., West Suffield.	<u>6.36</u>	6.56
6158	Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Hatheway & Steane Corp., West Suffield.	6.56	6.56
6300	Corenco. Consolidated Rendering Co., Boston 10, Mass. Sampled at A. S. Labieniec, Kensington.	6.52	6.00
6604 <sup>1</sup>	F & B. Faesy & Besthoff, Inc., New York, N.Y. Sampled at The Planters Barn, Darien.	6.68	6.00

~~~~~ Indicates deficiencies.

<sup>1</sup> "Available phosphoric acid: Guaranteed, 1.00%; found, 2.25%. Potash: Guaranteed, 1.00%; found, 1.67%.

TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station No. | Manufacturer or jobber and dealer                                                                                                       | Per cent nitrogen |      |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------|------|
|             |                                                                                                                                         | F                 | G    |
| 6839        | F & B. Faesy & Besthoff, Inc., New York, N. Y. Sampled at Fairfield Wholesalers, Inc., Fairfield.                                       | 6.88              | 6.56 |
| 6169        | Golden Rod 41%. Goldenrod Oil Meal Sales, Memphis, Tenn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.                              | <u>6.04</u>       | 6.56 |
| 6168        | Lovit Brand 41%. L. B. Lovitt & Co., Memphis, Tenn., Sampled at Cullman Bros., Inc., Farm 1, Simsbury.                                  | 6.66              | 6.56 |
| 6170        | Lovit Brand 41%. L. B. Lovitt & Co., Memphis, Tenn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.                                   | 6.64              | 6.56 |
| 6171        | Lovit Brand 41%. L. B. Lovitt & Co., Memphis, Tenn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.                                   | <u>6.34</u>       | 6.56 |
| 6177        | Lovit Brand 41%. L. B. Lovitt & Co., Memphis, Tenn. Sampled at Cullman Bros., Inc., Farm 3, Granby.                                     | 6.66              | 6.56 |
| 6178        | Lovit Brand 41%. L. B. Lovitt & Co., Memphis, Tenn. Sampled at Cullman Bros., Inc., Farm 3, Granby.                                     | 6.63              | 6.56 |
| 6677        | Pepco Brand 41%. John J. Pepin & Co., Memphis 3, Tenn. Sampled at Glen Terrace Nurseries, Hamden.                                       | 6.52              | 6.56 |
| 6181        | Sco-Co 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield. | 6.56              | 6.56 |
| 6182        | Sco-Co 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield. | 6.56              | 6.56 |
| 6183        | Sco-Co 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield. | 6.90              | 6.56 |

~~~~~ Indicates deficiencies.

TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station No.      | Manufacturer or jobber and dealer   | Per cent nitrogen |      |
|------------------|---|-------------------|------|
|                  |   | F                 | G    |
| 6184             | Sco-Co 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield. | 6.86              | 6.56 |
| 6185             | Sco-Co 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield. | 6.68              | 6.56 |
| 7504             | 41% Solvent Extracted. Yazoo Valley Oil Mill, Inc. Greenwood, Miss. Sampled at Clapboard Hill Feed Co., Inc., New Canaan.               | <u>6.32</u>       | 6.56 |
| LINSEED OIL MEAL |   |                   |      |
| 6155             | Spencer Kellogg 32%. Spencer Kellogg & Sons, Inc., Minneapolis, Minn. Sampled at Hatheway & Steane Corp., West Suffield.                | 5.76              | 5.12 |
| 6156             | Spencer Kellogg 32%. Spencer Kellogg & Sons, Inc., Minneapolis, Minn. Sampled at Hatheway & Steane Corp., West Suffield.                | 5.92              | 5.12 |
| 6166             | Sherwin-Williams 34%. The Sherwin Williams Co., Cleveland, Ohio. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.                      | 5.52              | 5.44 |
| 6179             | Sherwin-Williams 34%. The Sherwin Williams Co., Cleveland, Ohio. Sampled at Cullman Bros., Inc., Farm 3, Granby.                        | 5.52              | 5.44 |
| SOYBEAN MEAL     |   |                   |      |
| 6186             | Cargill 44% Solvent Extracted. Cargill, Inc., Minneapolis, Minn. Sampled at The Hartman Tobacco Co., Bloomfield.                        | 7.20              | 7.04 |
| 6191             | Cargill 44% Solvent Extracted. Cargill, Inc., Minneapolis, Minn. Sampled at The Hartman Tobacco Co., Bloomfield.                        | 7.12              | 7.04 |

~~~~~ Indicates deficiencies.



TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station No.   | Manufacturer or jobber and dealer                                                                                        | Per cent nitrogen |       |
|---------------|--------------------------------------------------------------------------------------------------------------------------|-------------------|-------|
|               |                                                                                                                          | F                 | G     |
| 6192          | Cargill 44% Solvent Extracted. Cargill, Inc., Minneapolis, Minn. Sampled at The Hartman Tobacco Co., Bloomfield.         | 7.28              | 7.04  |
| 6165          | Forty Four 44% Solvent Extracted. Central Soya, Fort Wayne, Ind. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.       | 7.28              | 7.04  |
| MISCELLANEOUS |                                                                                                                          |                   |       |
| 6417          | Agrinite. The American Agricultural Chemical Co., New York, N. Y. Sampled at The Garden Center, Inc., West Hartford.     | 7.04              | 7.00  |
| 6469          | Borden's 38. The Borden Chemical Co., (Div. of Borden Co.) New York 17, N. Y. Sampled at McArdle's Seed Co., Greenwich.  | 38.48             | 38.00 |
| 6828          | Breck's Feed No Weed. Joseph Breck & Sons Corp., Boston 10, Mass. Sampled at Paul M. Hubbard & Co., Bristol.             | 25.76             | 25.00 |
| 6622          | Brookside's Horn Shavings & Meal. Brookside Nurseries, Inc., Darien, Conn. Sampled at Brookside Nurseries, Inc., Darien. | 14.88             | 12.00 |
| 6805          | Corenco Green-O-ganic. Consolidated Rendering Co., Boston, Mass. Sampled at Comstock Ferre Co., Inc., Wethersfield.      | 12.00             | 12.00 |
| 6912          | Nitroform. Hercules Powder Co., Wilmington 99, Del. Sampled at Old Fox Agricultural Sales, Inc., Hazardville.            | 38.56             | 38.00 |
| 6809          | Blood Tankage. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at A. N. Pierson, Inc., Cromwell.                 | <u>7.76</u>       | 16.00 |

~~~~~ Indicates deficiencies.

TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station No. | Manufacturer or jobber and dealer  | Per cent nitrogen |       |
|-------------|--|-------------------|-------|
|             |  | F                 | G     |
| 6690        | Norge Viking Ship Brand Calcium Nitrate. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at A. N. Pierson, Inc., Cromwell.       | <u>15.20</u>      | 15.50 |
| 6904        | Old Fox Brand Organo. Old Fox Agricultural Sales, Inc., East Providence, R. I. Sampled at Old Fox Agricultural Sales, Inc., Hazardville. | 4.92              | 5.00  |
| 6651        | New Pax Crabgrass & Soil Pest Control. Pax Company, Salt Lake City, Utah. Sampled at Willis Distributors, Bridgeport.                    | 4.60              | 4.00  |

~~~~~ Indicates deficiencies.



TABLE 2.  
ANALYSES OF SUPERPHOSPHATE, ETC.

| Station No.    | Manufacturer or jobber and dealer                                                                                                                            | Per cent phosphoric acid |       |              |       |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------------|-------|
|                |                                                                                                                                                              | Citrate insoluble        | Total | "Available"  |       |
|                |                                                                                                                                                              |                          |       | F            | G     |
| SUPERPHOSPHATE |                                                                                                                                                              |                          |       |              |       |
| 6365           | Agri-Phos. American Agricultural Chemical Co., New York, N. Y. State purchase, Osborn Prison Farm, Enfield.                                                  | 0.40                     | 21.20 | 20.80        | 20.00 |
| 6519           | Agri-Phos. American Agricultural Chemical Co., New York, N. Y. State purchase, Southbury Training School, Southbury.                                         | 0.20                     | 19.80 | <u>19.60</u> | 20.00 |
| 6595           | Agri-Phos. American Agricultural Chemical Co., New York, N. Y. Sampled at Leon Ezzell, Inc., Stamford.                                                       | 0.75                     | 20.90 | 20.15        | 20.00 |
| 6652           | Corenco 20%. Consolidated Rendering Co., Boston, Mass. Sampled at Libner Grain Co., Inc., Norwalk.                                                           | 0.45                     | 22.05 | 21.60        | 20.00 |
| 6736           | Corenco 20%. Consolidated Rendering Co., Boston, Mass. State purchase, University of Conn., Farm Dept., Storrs.                                              | 0.15                     | 21.40 | 21.25        | 20.00 |
| 6752           | 20% Davco Granulated. Davison Chemical Co., Division W. R. Grace & Co., Baltimore, Md. Sampled at Check-R-Board Feed Store, New Milford.                     | 0.95                     | 22.00 | 21.05        | 20.00 |
| 6268           | Eastern States 20% Granulated. Eastern States Farmers Exchange, Inc., West Springfield, Mass. Sampled at Eastern States Farmers Exchange, Inc., North Haven. | 0.90                     | 22.35 | 21.45        | 20.00 |

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|                             |                                                                                                                                           |      |       |       |       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------|-------|
| 6571                        | Liberty 20%. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hubbard-Hall Chemical Co., Windsorville.                      | 0.50 | 22.65 | 22.15 | 20.00 |
| 6188                        | Liberty Fertilizer Triple. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hartman Tobacco Co., Bloomfield.                | 0.90 | 48.00 | 47.10 | 46.00 |
| 6625                        | Granulated 20%. Lebanon Chemical Corp., Lebanon, Pa. Sampled at Cadwell & Jones, Inc., Hartford.                                          | 1.30 | 21.95 | 20.65 | 20.00 |
| 6373                        | Old Fox Brand 0-20-0. Old Fox Agricultural Sales, Inc., East Providence, R. I. Sampled at Old Fox Agricultural Sales, Inc., Hazardville.  | 0.10 | 21.05 | 20.95 | 20.00 |
| 6162                        | Tencor Triple "46" Granulated. U. S. Phosphoric Products Div., Tenn. Corp., Tampa, Fla. Sampled at Cullman Bros., Inc., Farm 1, Simsbury. | 1.22 | 48.80 | 47.58 | 46.00 |
| 6180                        | Tencor Triple "46" Granulated. U. S. Phosphoric Products Div., Tenn. Corp., Tampa, Fla. Sampled at Cullman Bros., Inc., Farm 3, Granby.   | 1.25 | 48.30 | 47.05 | 46.00 |
| PRECIPITATED BONE PHOSPHATE |                                                                                                                                           |      |       |       |       |
| 6172                        | Domestic. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.                               | 0.00 | 43.80 | 43.80 | 42.00 |
| 6176                        | Domestic. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros., Inc., Farm 3, Granby.                                 | 0.00 | 44.60 | 44.60 | 42.00 |

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~ Indicates deficiencies.

TABLE 2.  
ANALYSES OF SUPERPHOSPHATE, ETC.

| Station No. | Manufacturer or jobber and dealer                                                                                            | Per cent phosphoric acid |                    |       |
|-------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|-------|
|             |                                                                                                                              | Citrate insoluble        | "Available"        |       |
|             |                                                                                                                              |                          | Total              | F     |
| 6196        | Domestic. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Amer. Sumatra Corp., Bloomfield.                        | 0.00                     | 45.60              | 42.00 |
| 6485        | PHOSPHATE ROCK<br>AA Quality. The American Agricultural Chemical Co., Pierce, Fla. Sampled at McArdle's Seed Co., Greenwich. | 27.85                    | 4.35               | 3.00  |
| 6766        | Ground Undissolved. The Baugh & Sons Co., Baltimore, Md. Sampled at The Hubbard-Hall Chemical Co., Portland.                 | 32.20 <sup>1</sup>       | 34.10 <sup>2</sup> |       |

<sup>1</sup> Guaranteed: 31.00%.<sup>2</sup> Guaranteed: 33.50%.TABLE 3.  
ANALYSES OF POTASH SALTS, ETC.

| Station No.            | Manufacturer or jobber and dealer                                                                                                              | Per cent potash |       |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------|
|                        |                                                                                                                                                | F               | G     |
| MURIATE OF POTASH      |                                                                                                                                                |                 |       |
| 6359                   | Corenco 60%. Consolidated Rendering Co., Boston 10, Mass. State purchase, Osborn Prison Farm, Enfield.                                         | 60.56           | 60.00 |
| 6871                   | Corenco 60%. Consolidated Rendering Co., Boston 10, Mass. State purchase, Conn. State Farm for Women, Niantic.                                 | 60.32           | 60.00 |
| 6711                   | Eastern States 60%. Eastern States Farmers' Exchange, Inc., West Springfield, Mass. Sampled at Eastern States Farmers' Exchange, Inc., Putnam. | 60.80           | 60.00 |
| 6194                   | Liberty. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Amer. Sumatra Tobacco Corp., Bloomfield.                                   | 61.04           | 60.00 |
| 6781                   | Liberty. The Hubbard-Hall Chemical Co., Waterbury, Conn. State purchase, Long Lane School, Middletown.                                         | <u>59.24</u>    | 60.00 |
| NITRATE OF POTASH      |                                                                                                                                                |                 |       |
| 6152 <sup>1</sup>      | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hatheway & Steane Corp., West Suffield.                                             | 45.44           | 44.00 |
| 6689 <sup>2</sup>      | International Minerals & Chemical Corp., Woburn, Mass. Sampled at A. N. Pierson, Inc., Cromwell.                                               | 44.08           | 44.00 |
| NITRATE OF SODA-POTASH |                                                                                                                                                |                 |       |
| 6916 <sup>3</sup>      | Champion. Chilean Nitrate Sales Corp., New York 5, N. Y. Sampled at The Hubbard-Hall Chemical Co., Windsorville.                               | 14.16           | 14.00 |

~~~~~ Indicates deficiencies.

<sup>1</sup> Nitrogen: Guaranteed, 11.00%; found, 13.52%.<sup>2</sup> Nitrogen: Guaranteed, 14.00%; found, 13.44%.<sup>3</sup> Nitrogen: Guaranteed, 15.00%; found, 15.04%.

Sodium: Guaranteed, 18.00%; found, 18.35%.

TABLE 3.  
ANALYSES OF POTASH SALTS, ETC.

| Station No.       | Manufacturer or jobber and dealer   | Per cent potash |            |
|-------------------|---|-----------------|------------|
|                   |   | F               | G          |
|                   | SULPHATE OF POTASH  |                 |            |
| 6163              | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.                 | 49.20           | 48.00      |
|                   | SULPHATE OF POTASH AND MAGNESIA   |                 |            |
| 6189 <sup>4</sup> | Sul-Po-Mag. International Minerals & Chemical Corp., Skokie, Ill. Sampled at The Hartman Tobacco Co., Bloomfield. | 22.34           | 21.00      |
|                   | COTTON HULL ASHES   |                 |            |
| 6151              | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hatheway & Steane Corp., West Suffield.                | 38.86           | unit basis |
| 6164              | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.                 | 37.42           | unit basis |
| 6190              | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hartman Tobacco Co., Bloomfield.                   | 40.12           | unit basis |
| 6195              | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Amer. Sumatra Tobacco Corp., Bloomfield.               | 33.56           | unit basis |
| 6623              | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Brookside Nurseries, Inc., Darien.                     | 37.16           | 37.00      |
| 6778              | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hubbard-Hall Chemical Co., Portland.               | 38.96           | 37.00      |

<sup>4</sup> Magnesium: Guaranteed, 11.00%; found, 16.02%.

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

| Station No.     | Manufacturer or jobber and dealer   | Per cent nitrogen |                  | Per cent phosphoric acid |                  | Mechanical analysis (per cent) |                        |
|-----------------|---|-------------------|------------------|--------------------------|------------------|--------------------------------|------------------------|
|                 |   | Total found       | Total guaranteed | Total found              | Total guaranteed | Finer than 1/50 inch           | Coarser than 1/50 inch |
| DRY GROUND FISH |   |                   |                  |                          |                  |                                |                        |
| 6927            | Gloucester By-Products, Inc., Gloucester, Mass. Sampled at H. L. Oppenheimer & Sons, West Suffield. | 10.36             | 9.60             |                          |                  |                                |                        |
| 6153            | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hatheway & Steane Corp., West Suffield.  | 10.44             | 10.00            | 6.80                     | 5.00             |                                |                        |
| 6154            | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hatheway & Steane Corp., West Suffield.  | 10.56             | 10.00            | 6.55                     | 5.00             |                                |                        |
| 6167            | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.   | 10.40             | 10.00            | 7.00                     | 5.00             |                                |                        |
| 6175            | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.   | 10.76             | 10.00            | 7.10                     | 5.00             |                                |                        |

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|-----------|---|-------|-------|--------------------|-------|-------|-------|
| 6187      | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hartman Tobacco Co., Bloomfield.       | 10.52 | 10.00 | 6.85               | 5.00  |       |       |
| BONE MEAL |   |       |       |                    |       |       |       |
| 6887      | Agricultural Products Co., Inc., West Kingston, R. I. Sampled at J. M. Fields, Branford.              | 2.44  | 2.25  | 26.88 <sup>1</sup> |       | 60.00 | 40.00 |
| 6682      | Armour Agricultural Chemical Co., Atlanta, Ga. Sampled at Christoforo Farms Market, North Haven.      | 2.20  | 2.30  | 29.35              | 23.00 | 78.00 | 22.00 |
| 6621      | Brookside Nurseries, Inc., Darien, Conn. Sampled at Brookside Nurseries, Darien.                      |       |       | 28.40              | 25.00 | 63.00 | 27.00 |
| 6242      | Consolidated Rendering Co., Boston, Mass. Sampled at New Haven Rendering Co., West Haven.             | 2.52  | 2.00  | 27.25              | 22.00 | 52.00 | 48.00 |
| 6554      | Consolidated Rendering Co., Boston, Mass. State purchase, Danbury Teachers College, Danbury.          | 2.52  | 2.00  | 27.85              | 22.00 | 64.00 | 36.00 |
| 6733      | Consolidated Rendering Co., Boston, Mass. State purchase, Mansfield Training School, Mansfield Depot. | 2.52  | 2.00  | 26.70              | 22.00 | 64.00 | 36.00 |
| 6592      | Faesy & Besthoff, Inc., New York, N. Y. Sampled at Leon Ezzell, Inc., Stamford.                       | 2.48  | 2.47  | 27.30              | 23.00 | 63.00 | 37.00 |
| 6431      | Goulard & Olena, Inc., Skillman, N. J. Sampled at The Peter Cascio Nursery, West Hartford.            | 5.96  | 3.50  | 19.69              | 20.00 | 35.00 | 65.00 |

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~ Indicates deficiencies.

<sup>1</sup> "Available" phosphoric acid: Guaranteed, 20.00%; found, 18.53%.



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

| Station No. | Manufacturer or jobber and dealer  | Per cent nitrogen |                  | Per cent phosphoric acid |                  | Mechanical analysis (per cent) |                        |
|-------------|--|-------------------|------------------|--------------------------|------------------|--------------------------------|------------------------|
|             |  | Total found       | Total guaranteed | Total found              | Total guaranteed | Finer than 1/50 inch           | Coarser than 1/50 inch |
| 6433        | Goulard & Olena, Inc., Skillman, N. J. Sampled at The Peter Cascio Nursery, West Hartford.                     | 2.60              | 2.40             | 27.75                    | 20.00            | 58.00                          | 42.00                  |
| 6854        | A. H. Hoffman, Inc., Landisville, Pa. Sampled at Barker's, Inc., Orange.                                       | 2.36              | 2.00             | 28.15                    | 17.00            | 67.00                          | 33.00                  |
| 6420        | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Sears, Roebuck & Co., West Hartford.                | 2.32              | 2.00             | 27.96                    | 23.00            |                                |                        |
| 6634        | Lebanon Chemical Corp., Lebanon, Pa. Sampled at Cadwell & Jones, Inc., Hartford.                               | 2.44              | 2.30             | 26.05 <sup>2</sup>       | 20.00            | 68.00                          | 32.00                  |
| 6716        | Old Fox Agricultural Sales, Inc., East Providence, R. I. Sampled at Putnam Farmers' Co-op Assn., Inc., Putnam. | 3.44              | 2.00             | 24.90                    | 23.00            |                                |                        |

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<sup>2</sup> "Available" phosphoric acid: Guaranteed, 15.00%; found, 18.00%.

|                      |   |       |       |                    |       |       |       |
|----------------------|---|-------|-------|--------------------|-------|-------|-------|
| 6250                 | Sears, Roebuck & Co., Chicago, Ill. Sampled at Sears, Roebuck & Co., Hamden.                            | 2.84  | 2.00  | 25.30 <sup>3</sup> | 23.00 | 55.00 | 45.00 |
| 6864                 | Wessel, Duval & Co., Inc., New York, N. Y. Sampled at Eastern States Farmers Exchange, Inc., Yantic.    | 2.44  | 2.47  | 28.10              | 23.00 | 69.00 | 31.00 |
| MILORGANITE          |   |       |       |                    |       |       |       |
| 6456                 | Sewerage Commission of the City of Milwaukee, Milwaukee, Wis. Sampled at Church & Morse, Inc., Meriden. | 5.58  | 5.50  | 4.10 <sup>4</sup>  |       |       |       |
| DIAMMONIUM PHOSPHATE |   |       |       |                    |       |       |       |
| 6932                 | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hubbard-Hall Chemical Co., Portland.     | 18.84 | 18.00 | 47.80 <sup>5</sup> |       |       |       |

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<sup>3</sup> "Available" phosphoric acid: Guaranteed, 16.00%; found, 19.40%.

<sup>4</sup> "Available" phosphoric acid: Guaranteed, 3.00%; found, 3.05%.

<sup>5</sup> "Available" phosphoric acid: Guaranteed, 46.00%; found, 47.70%.



TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.          | Manufacturer and brand   | Place of Sampling |
|----------------------|--|-------------------|
| 6494                 | <u>A-PENN OIL CO.</u> , Butler, Pa.<br>Marvel Green Lawn Builder 20-10-5                                 | Old Greenwich     |
| 6807                 | <u>AGRICULTURAL PRODUCTS CO.</u><br>West Kingston, R. I.<br>APCO Organic Lawn Food 5-4-0                 | Wethersfield      |
| 6310                 | Blue Ribbon 5-10-5 Fertilizer Lawn-Garden  | New Britain       |
| 6875                 | Comet Lawn & Garden Fertilizer 5-10-5  | Branford          |
| 6308                 | Golden Comet 8-6-4 Lawn Food   | New Britain       |
| 6321                 | Guardian 8-6-4 Gro-Green Lawn Fertilizer   | Willimantic       |
| 6852                 | Spur Lawn & Garden Fertilizer 5-10-5   | Milford           |
| 6853                 | Super Turf King 8-6-4 Lawn Food  | Milford           |
| 6851                 | Turf King Lawn & Garden Fertilizer 5-10-5  | Milford           |
| 6301                 | <u>AGRICULTURAL SUPPLY CO.</u><br>West Haven, Conn.<br>Yale Special Mixture 8-6-2                        | Kensington        |
| 6284                 | Yale Special Mixture 8-6-2 with Chlordane  | Hamden            |
| 6731 <sup>1</sup>    | <u>THE AMERICAN AGRICULTURAL CHEMICAL CO.</u><br>North Weymouth, Mass.<br>A-A Quality Fertilizer 0-20-20 | Mansfield Depot   |
| 6870 <sup>1</sup>    | A-A Quality Fertilizer 0-20-20   | Niantic           |
| 6491 <sup>2</sup>    | A-A Quality Fertilizer 5-10-5  | Cos-Cob           |
| 6490 <sup>3</sup>    | A-A Quality Fertilizer 5-10-10   | Cos-Cob           |
| 6730 <sup>4, 5</sup> | A-A Quality Fertilizer 5-10-10   | Mansfield Depot   |
| 6737 <sup>5</sup>    | A-A Quality Fertilizer 5-10-10   | Storrs            |

~~~~ Indicates deficiencies.

<sup>1</sup> State purchase.

<sup>2</sup> Magnesium: Guaranteed, 1.20%; found, 2.15%.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen, per cent |                       |                 |       | Phosphoric acid, per cent |       |                       | Potash, per cent |       |
|---------|--------------------|-----------------------|-----------------|-------|---------------------------|-------|-----------------------|------------------|-------|
|         | Ammoniacal         | Water-soluble organic | Water-insoluble | Total | Citrate-insoluble         | Total | So-called "available" | As muriate       | Total |
| 0.52    | 6.56               | 10.72                 | 2.20            | 20.00 | 0.25                      | 11.17 | 10.92                 | 0.19             | 5.54  |
| 0.00    | 0.00               | 0.68                  | 4.32            | 5.00  | 1.15                      | 6.24  | 5.09                  |                  |       |
| 0.00    | 5.04               | 0.08                  | 0.00            | 5.12  | 0.15                      | 9.92  | 9.77                  | 4.13             | 4.55  |
| 0.00    | 5.12               | 0.08                  | 0.08            | 5.28  | 0.15                      | 10.64 | 10.49                 | 4.67             | 5.16  |
| 0.00    | 6.08               | 0.42                  | 1.66            | 8.16  | 0.50                      | 6.55  | 6.05                  | 4.48             | 4.59  |
| 0.00    | 8.64               | 0.84                  | 0.76            | 10.24 | 0.35                      | 8.00  | 7.65                  | 4.57             | 5.44  |
| 0.00    | 5.04               | 0.16                  | 0.08            | 5.28  | 0.20                      | 11.45 | 11.25                 | 3.88             | 5.25  |
| 0.00    | 6.16               | 0.83                  | 1.17            | 8.16  | 0.60                      | 5.87  | 5.27                  | 3.85             | 4.12  |
| 0.00    | 4.88               | 0.28                  | 0.00            | 5.16  | 0.30                      | 10.35 | 10.05                 | 3.09             | 5.38  |
| 0.00    | 4.48               | 2.98                  | 0.94            | 8.40  | 0.15                      | 6.52  | 6.37                  | 2.56             | 2.56  |
| 0.00    | 4.24               | 2.32                  | 0.58            | 7.14  | 0.12                      | 5.50  | 5.38                  | 2.02             | 2.37  |
|         |                    |                       |                 |       | 0.55                      | 20.60 | 20.05                 | 19.20            | 20.40 |
|         |                    |                       |                 |       | 0.35                      | 21.04 | 20.69                 | 16.79            | 20.76 |
| 0.00    | 4.24               | 0.62                  | 0.14            | 5.00  | 0.15                      | 10.70 | 10.55                 | 4.26             | 5.25  |
| 0.16    | 4.16               | 0.32                  | 0.10            | 4.74  | 0.20                      | 10.20 | 10.00                 | 8.06             | 9.22  |
| 1.24    | 3.76               | 0.40                  | 0.00            | 5.40  | 0.50                      | 10.70 | 10.20                 | 3.89             | 9.27  |
| 1.22    | 4.08               | 0.08                  | 0.00            | 5.38  | 0.40                      | 10.82 | 10.42                 | 4.99             | 10.08 |

<sup>3</sup> Magnesium: Guaranteed, 1.20%; found, 2.25%.

<sup>4</sup> Magnesium: Guaranteed 1.20%; found, 1.66%.

<sup>5</sup> Magnesium: Guaranteed, 1.20%; found, 1.60%.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.         | Manufacturer and brand                                   | Place of Sampling |
|---------------------|----------------------------------------------------------|-------------------|
| 6869 <sup>1,6</sup> | A-A Quality Fertilizer 5-10-10                           | Niantic           |
| 6448 <sup>1</sup>   | A-A Quality Fertilizer 8-16-16                           | Cheshire          |
| 6521 <sup>1</sup>   | A-A Quality Fertilizer 8-16-16                           | Southbury         |
| 6446 <sup>1</sup>   | A-A Quality Fertilizer 10-6-4                            | New Haven         |
| 6449 <sup>1</sup>   | A-A Quality Fertilizer 10-6-4                            | Cheshire          |
| 6523 <sup>1</sup>   | A-A Quality Fertilizer 10-6-4                            | Southbury         |
| 6641 <sup>1</sup>   | A-A Quality Fertilizer 10-6-4                            | New Britain       |
| 6358 <sup>1</sup>   | A-A Quality Fertilizer 10-10-10                          | Enfield           |
| 6556 <sup>1</sup>   | A-A Quality Fertilizer 10-10-10                          | Newtown           |
| 6732 <sup>1</sup>   | A-A Quality Fertilizer 10-10-10                          | Mansfield Depot   |
| 6780 <sup>1</sup>   | A-A Quality Fertilizer 10-10-10                          | Middletown        |
| 6396                | A-A Quality Plant Food 5-10-5                            | Manchester        |
| 6453                | A-A Quality Plant Food 10-6-4                            | Southington       |
| 6287                | Agrico ACR Fertilizer 6-10-4                             | Hamden            |
| 6401                | Agrico Country Club Fertilizer 12-4-8                    | Rockville         |
| 6402                | Agrico for Gardens 5-10-5                                | Rockville         |
| 6285                | Agrico for Lawns, Trees & Shrubs 6-10-4                  | Hamden            |
| 6452 <sup>7</sup>   | Agrico for New England 5-8-7                             | Southington       |
| 6929                | Agrico for New England 5-8-7                             | Rockville         |
| 6451 <sup>8</sup>   | Agrico for Potatoes 5-10-10                              | Southington       |
| 6720                | Agrico for Top Dressing 7-7-7                            | Willimantic       |
| 6395                | Agrico Grass Food 10-6-4                                 | Manchester        |
| 6492                | Agrico Insect Control with Fertilizer 5-9-6              | Cos-Cob           |
| 6483                | Agrico Rose Food 5-9-6                                   | Greenwich         |
| 6582                | Homestead Farm Style Multi-Purpose Fertilizer 5-10-5     | Thompsonville     |
|                     | <u>ARMOUR AGRICULTURAL CHEMICAL CO., Carteret, N. J.</u> |                   |
| 6505                | Armour Armorganic Plant Food 5-5-0                       | South Windsor     |

~ Indicates deficiencies.

<sup>1</sup> State purchase.

<sup>6</sup> Magnesium: Guaranteed, 1.20%; found, 1.48%.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen, per cent |                       |                 |       | Phosphoric acid, per cent |       |                       | Potash, per cent |       |
|---------|--------------------|-----------------------|-----------------|-------|---------------------------|-------|-----------------------|------------------|-------|
|         | Ammoniacal         | Water-soluble organic | Water-insoluble | Total | Citrate-insoluble         | Total | So-called "available" | As muriate       | Total |
| 0.26    | 3.84               | 1.32                  | 0.10            | 5.52  | 0.50                      | 11.00 | 10.50                 | 7.31             | 10.22 |
| 2.12    | 5.84               | 0.24                  | 0.00            | 8.20  | 0.35                      | 16.40 | 16.05                 | 13.81            | 15.80 |
| 2.36    | 5.68               | 0.24                  | 0.00            | 8.28  | 0.30                      | 16.85 | 16.65                 | 14.90            | 16.38 |
| 0.22    | 6.64               | 1.60                  | 0.86            | 9.32  | 0.30                      | 7.25  | 6.95                  | 4.73             | 5.41  |
| 0.18    | 5.52               | 3.04                  | 1.58            | 10.32 | 0.20                      | 7.37  | 7.17                  | 4.49             | 4.55  |
| 0.22    | 5.04               | 3.12                  | 1.62            | 10.00 | 0.40                      | 8.50  | 8.10                  | 4.33             | 4.52  |
| 0.32    | 5.36               | 2.80                  | 1.52            | 10.00 | 0.35                      | 8.20  | 7.85                  | 4.70             | 5.07  |
| 1.76    | 8.16               | 0.48                  | 0.44            | 10.84 | 0.55                      | 10.70 | 10.15                 | 7.53             | 10.01 |
| 1.80    | 8.40               | 0.32                  | 0.12            | 10.64 | 0.45                      | 10.80 | 10.35                 | 6.93             | 10.04 |
| 1.76    | 8.56               | 0.24                  | 0.20            | 10.76 | 0.50                      | 10.62 | 10.12                 | 6.76             | 10.08 |
| 1.74    | 8.08               | 0.32                  | 0.10            | 10.24 | 0.40                      | 10.62 | 10.22                 | 9.11             | 10.15 |
| 1.72    | 3.52               | 0.08                  | 0.00            | 5.32  | 0.35                      | 10.40 | 10.05                 | 4.77             | 5.28  |
| 0.00    | 7.60               | 1.98                  | 0.22            | 9.80  | 0.10                      | 6.27  | 6.17                  | 3.19             | 4.12  |
| 0.00    | 4.00               | 1.52                  | 0.68            | 6.20  | 0.27                      | 10.20 | 9.93                  | 2.79             | 4.08  |
| 0.48    | 5.44               | 5.04                  | 1.92            | 12.88 | 0.40                      | 5.25  | 4.85                  | 6.35             | 8.59  |
| 0.26    | 3.28               | 0.96                  | 0.94            | 5.44  | 0.55                      | 10.80 | 10.25                 | 3.89             | 5.34  |
| 0.00    | 3.82               | 1.08                  | 0.78            | 5.68  | 0.37                      | 10.67 | 10.40                 | 3.21             | 4.47  |
| 1.40    | 3.36               | 0.24                  | 0.00            | 5.00  | 0.20                      | 8.50  | 8.30                  | 4.90             | 7.03  |
| 0.76    | 3.60               | 0.48                  | 0.16            | 5.00  | 0.35                      | 8.95  | 8.60                  | 4.93             | 7.03  |
| 1.00    | 3.82               | 0.42                  | 0.12            | 5.36  | 0.20                      | 10.75 | 10.55                 | 10.24            | 10.86 |
| 1.04    | 5.10               | 0.90                  | 0.00            | 7.04  | 0.35                      | 8.32  | 7.97                  | 4.95             | 7.20  |
| 0.00    | 4.64               | 3.12                  | 3.68            | 11.44 | 0.55                      | 6.75  | 6.20                  | 3.04             | 4.52  |
| 0.00    | 2.56               | 2.14                  | 0.30            | 5.00  | 0.60                      | 9.90  | 9.30                  | 5.38             | 6.11  |
| 0.00    | 2.56               | 2.56                  | 0.20            | 5.32  | 0.45                      | 9.60  | 9.15                  | 4.30             | 6.84  |
| 1.52    | 3.68               | 0.32                  | 0.00            | 5.52  | 0.45                      | 10.45 | 10.00                 | 3.15             | 5.10  |
| 0.00    | 0.00               | 0.56                  | 4.44            | 5.00  |                           | 6.16  |                       |                  |       |

<sup>7</sup> Magnesium: Guaranteed, 1.20%; found, 1.47%.

<sup>8</sup> Magnesium: Guaranteed, 1.20%; found, 1.83%.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.                                                | Manufacturer and brand                                         | Place of Sampling |
|------------------------------------------------------------|----------------------------------------------------------------|-------------------|
| 6512                                                       | Armour Big Crop Fertilizer 5-10-5                              | South Windsor     |
| 6513                                                       | Armour Big Crop Fertilizer 5-10-10                             | South Windsor     |
| 6506                                                       | Armour Gold Bond Tobacco Grower<br>6-3-6                       | South Windsor     |
| 6515                                                       | Armour Home & Garden Special 5-10-5                            | South Windsor     |
| 6588                                                       | Armour Lawn Special 10-6-4                                     | East Windsor      |
| 6589                                                       | Armour Lightweight Vertagreen Lawn<br>Fertilizer 20-10-10      | East Windsor      |
| 6640                                                       | Armour Vertagreen for Acid Loving<br>Plants 5-10-10            | Hartford          |
| 6514                                                       | Armour Vertagreen Lawn Food<br>6-10-4 (25% Organic Nitrogen)   | South Windsor     |
| 6681                                                       | Armour Vertagreen 10-6-4 for Turf<br>60% Organic Nitrogen)     | North Haven       |
| 6503                                                       | Armour Vertagreen Plant Food 5-10-5<br>with 2,4-D Weed Killer  | South Windsor     |
| 6314                                                       | Armour Vertagreen Plant Food for<br>Lawns & Gardens 5-10-5     | Southington       |
| 6576                                                       | Armour Vertagreen Plant Food for<br>Turf & Trees 10-6-4        | Thompsonville     |
| 6502                                                       | Armour Vertagreen Rose Food 5-10-5                             | South Windsor     |
| 6925                                                       | Armour Vertagreen Turf Food with<br>Chlordane 10-6-4           | West Suffield     |
| 6504                                                       | Armour Vertagreen Turf Formula<br>8-6-2 (50% Organic Nitrogen) | South Windsor     |
| 6507                                                       | Armour Vertagreen Turf Formula<br>8-6-2 (50% Organic Nitrogen) | South Windsor     |
| <u>ASGROW SEED CO., New Haven, Conn.</u>                   |                                                                |                   |
| 6548                                                       | Asgrow Gro-Sod Lawn Food 22-8-4                                | Newtown           |
| 6893                                                       | Asgrow Gro-Sod Lawn Food 22-8-4                                | Milford           |
| 6894                                                       | Asgrow Weed-Nix Lawn Food with<br>2,4-D 17-4-4                 | Milford           |
| <u>F. A. BARTLETT TREE EXPERT CO.,<br/>Stamford, Conn.</u> |                                                                |                   |
| 6555                                                       | Bartlett Green Tree Food 6-8-6                                 | Danbury           |

~~~~~ Indicates deficiencies.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen,<br>per cent |                           |                     |              | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |             |
|---------|-----------------------|---------------------------|---------------------|--------------|------------------------------|-------|--------------------------|---------------------|-------------|
|         | Ammoniacal            | Water-<br>soluble organic | Water-<br>insoluble | Total        | Citrate-<br>insoluble        | Total | So-called<br>"available" | As<br>muriate       | Total       |
| 0.50    | 4.16                  | 0.32                      | 0.14                | 5.12         | 0.65                         | 10.87 | 10.22                    | 4.02                | 5.10        |
| 0.80    | 4.72                  | 0.00                      | 0.12                | 5.64         | 0.85                         | 11.22 | 10.37                    | 10.60               | 10.89       |
| 0.94    | 0.24                  | 1.60                      | 3.22                | 6.00         | 0.35                         | 3.80  | 3.45                     | 0.48                | 6.04        |
| 0.64    | 4.48                  | 0.00                      | 0.16                | 5.28         | 0.65                         | 11.75 | 11.10                    | 4.42                | 5.41        |
| 0.58    | 8.72                  | 0.08                      | 0.10                | <u>9.48</u>  | 0.75                         | 7.40  | 6.65                     | 4.18                | 4.18        |
| 1.32    | 3.36                  | 6.56                      | 8.36                | <u>19.60</u> | 0.95                         | 10.95 | 10.00                    | 8.33                | 10.04       |
| 0.00    | 3.28                  | 0.80                      | 3.12                | 7.20         | 1.05                         | 11.60 | 10.55                    | 2.14                | <u>2.85</u> |
| 0.58    | 4.80                  | 0.72                      | 0.70                | 6.80         | 0.12                         | 10.50 | 10.38                    | 0.94                | 4.02        |
| 1.46    | 3.76                  | 0.96                      | 3.82                | 10.00        | 0.80                         | 8.02  | 7.22                     | 3.51                | 4.30        |
| 0.40    | 4.48                  | 0.24                      | 0.12                | 5.24         | 0.10                         | 10.30 | 10.20                    | 2.40                | 5.13        |
| 0.24    | 4.80                  | 0.08                      | 0.12                | 5.24         | 0.55                         | 12.12 | 11.57                    | 1.94                | <u>4.52</u> |
| 0.30    | 8.32                  | 0.40                      | 1.38                | 10.40        | 0.75                         | 7.50  | 6.75                     | 4.10                | 4.33        |
| 0.00    | 4.08                  | 0.26                      | 1.06                | 5.40         | 0.90                         | 12.00 | 11.10                    | 5.52                | 7.98        |
| 0.00    | 8.32                  | 0.62                      | 1.38                | 10.32        | 0.75                         | 7.36  | 6.61                     | 3.86                | 4.18        |
| 0.56    | 3.36                  | 0.48                      | 3.64                | 8.04         | 0.70                         | 7.52  | 6.82                     | 2.72                | 3.20        |
| 0.36    | 2.88                  | 0.56                      | 4.04                | <u>7.84</u>  | 0.70                         | 7.40  | 6.70                     | 2.30                | 2.43        |
| 0.56    | 6.40                  | 12.48                     | 2.16                | <u>21.60</u> | 0.15                         | 9.75  | 9.60                     |                     | 5.00        |
| 0.00    | 5.44                  | 14.24                     | 3.04                | <u>22.72</u> | 0.55                         | 9.00  | 8.45                     | 0.12                | 4.08        |
| 0.00    | 3.20                  | 10.87                     | 1.77                | <u>15.84</u> | 0.45                         | 4.40  | 3.95                     | 0.49                | 5.25        |
| 0.20    | 5.20                  | 0.00                      | 0.64                | 6.04         | 0.40                         | 9.05  | 8.65                     | 5.84                | 6.21        |

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.       | Manufacturer and brand                                       | Place of Sampling |
|-------------------|--|-------------------|
|                   | <u>JOSEPH BRECK &amp; SONS, CORP.</u><br>Boston, Mass.       |                   |
| 6678 <sup>9</sup> | Breck's Garden Gro 5-10-10 1, 2 mag.                         | Hamden            |
| 6679              | Breck's New Improved Turf-Gro 20-6-4                         | Hamden            |
|                   | <u>BROOKSIDE NURSERIES, INC.</u><br>Darien, Conn.            |                   |
| 6618              | Brookside's Nature's Evergreen 5-4-4                         | Darien            |
| 6619              | Brookside's Nature's Nutrients 6-6-8                         | Darien            |
| 6620              | Brookside's Thrift Food 4-4-4                                | Darien            |
|                   | <u>W. ATLEE BURPEE CO.</u><br>Philadelphia, Pa.              |                   |
| 6272              | Burpee Lawn Food 20-10-5                                     | Cheshire          |
|                   | <u>CADWELL &amp; JONES, INC.</u><br>Hartford, Conn.          |                   |
| 6303              | C & J Hi Organic Fertilizer 10-6-4                           | Kensington        |
| 6922              | C & J Lawn Food with weed killer 20-10-5                     | Hartford          |
| 6627              | C & J Plant Food 5-10-5                                      | Hartford          |
|                   | <u>CALIFORNIA CHEMICAL CO.</u><br>ORTHO DIV., Richmond, Cal. |                   |
| 6683              | Ortho Liquid Rose Food 8-12-4                                | North Haven       |
| 6811              | Ortho Unipel 14-14-14 Pelleted Fertilizer                    | Cromwell          |
|                   | <u>PETER CASCIO NURSERY, INC.</u><br>West Hartford, Conn.    |                   |
| 6436              | Cascio's Lawn Food 10-6-4                                    | West Hartford     |
| 6437              | Cascio's Professional 5-10-5 Lawn Food                       | West Hartford     |

~~~~~ Indicates deficiencies.

<sup>9</sup> Magnesium: Guaranteed, 1.20; found, 1.71%.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen, per cent |                       |                 |       | Phosphoric acid, per cent |       |                       | Potash, per cent |       |
|---------|--------------------|-----------------------|-----------------|-------|---------------------------|-------|-----------------------|------------------|-------|
|         | Ammoniacal         | Water-soluble organic | Water-insoluble | Total | Citrate-insoluble         | Total | So-called "available" | As muriate       | Total |
| 1.12    | 3.60               | 0.16                  | 0.12            | 5.00  | 0.40                      | 10.47 | 10.07                 | 7.22             | 9.58  |
| 0.16    | 3.84               | 14.08                 | 0.92            | 19.00 | 0.32                      | 7.40  | 7.08                  | 3.47             | 4.36  |
| 0.10    | 0.00               | 0.56                  | 5.02            | 5.68  | 3.90                      | 10.65 | 6.75                  | 0.45             | 4.24  |
| 0.00    | 0.00               | 0.64                  | 4.98            | 5.62  | 1.10                      | 9.05  | 7.95                  | 2.60             | 8.29  |
| 0.24    | 0.00               | 0.48                  | 3.80            | 4.52  | 0.40                      | 7.05  | 6.65                  | 0.52             | 4.15  |
| 0.00    | 6.64               | 9.36                  | 4.72            | 20.72 | 0.30                      | 12.17 | 11.87                 | 3.36             | 5.00  |
| 0.24    | 3.36               | 5.68                  | 1.00            | 10.28 | 0.05                      | 6.80  | 6.75                  | 2.27             | 4.02  |
| 0.76    | 5.44               | 11.20                 | 2.84            | 20.24 | 0.85                      | 11.25 | 10.40                 | 3.09             | 3.29  |
| 1.34    | 3.60               | 0.24                  | 0.10            | 5.28  | 0.15                      | 9.80  | 9.65                  | 3.82             | 5.50  |
| 0.00    | 3.44               | 4.64                  | 0.00            | 8.08  | 0.00                      | 11.70 | 11.70                 |                  | 4.05  |
| 6.88    | 7.20               | 1.00                  | 0.00            | 14.08 | 0.60                      | 15.65 | 15.05                 | 12.40            | 14.08 |
| 0.00    | 5.04               | 3.60                  | 1.62            | 10.26 | 0.40                      | 6.55  | 6.10                  | 3.55             | 4.18  |
| 0.00    | 2.72               | 2.10                  | 0.78            | 5.60  | 0.20                      | 10.00 | 9.80                  | 5.50             | 5.50  |



TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.        | Manufacturer and brand                                                                            | Place of Sampling  |
|--------------------|---------------------------------------------------------------------------------------------------|--------------------|
| 6803               | <u>COMSTOCK FERRE CO., INC.</u><br>Wethersfield, Conn.<br>Lawn Weed Killer & Feed Granules 17-4-4 | Wethersfield       |
|                    | <u>CONSOLIDATED RENDERING CO.</u><br>Boston, Mass.                                                |                    |
| 6889               | Corenco 0-15-30                                                                                   | West Haven         |
| 6858               | Corenco 0-20-20                                                                                   | Lisbon             |
| 6235               | Corenco 5-8-7                                                                                     | West Haven         |
| 6558 <sup>1</sup>  | Corenco 5-8-7                                                                                     | Newtown            |
| 6764 <sup>1</sup>  | Corenco 5-8-7                                                                                     | Waterbury          |
| 6237               | Corenco 5-10-5                                                                                    | West Haven         |
| 6553 <sup>1</sup>  | Corenco 5-10-5                                                                                    | Danbury            |
| 6624 <sup>1</sup>  | Corenco 5-10-5                                                                                    | Hartford           |
| 6305               | Corenco Home Garden Fertilizer<br>5-10-5                                                          | New Britain        |
| 6244               | Corenco 5-10-5 Rose Special                                                                       | West Haven         |
| 6269 <sup>1</sup>  | Corenco 5-10-10                                                                                   | Cheshire           |
| 6455 <sup>1</sup>  | Corenco 5-10-10                                                                                   | Meriden            |
| 6501               | Corenco 5-10-10                                                                                   | Wapping            |
| 6903 <sup>10</sup> | Corenco 5-10-10 1.2 mag.                                                                          | Springfield, Mass. |
| 6892               | Corenco 5-10-10 Liquid Fertilizer<br>Concentrate                                                  | West Haven         |
| 6902               | Corenco 6-3-6 Perfection Tobacco<br>Grower                                                        | Springfield, Mass. |
| 6901               | Corenco 6-3-6 Premium Tobacco<br>Grower                                                           | Springfield, Mass. |
| 6500 <sup>11</sup> | Corenco 6-8-8 1.2 mag.                                                                            | Wapping            |
| 6236               | Corenco 7-7-7                                                                                     | West Haven         |
| 6445 <sup>1</sup>  | Corenco 7-7-7                                                                                     | New Haven          |
| 6804               | Corenco 7-7-7 Rhododendron                                                                        | Wethersfield       |
| 6240               | Corenco 8-6-4 Landscape                                                                           | West Haven         |

~ Indicates deficiencies.

<sup>1</sup> State purchase.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen,<br>per cent |                           |                     |       | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |       |
|---------|-----------------------|---------------------------|---------------------|-------|------------------------------|-------|--------------------------|---------------------|-------|
|         | Ammoniacal            | Water-<br>soluble organic | Water-<br>insoluble | Total | Citrate-<br>insoluble        | Total | So-called<br>"available" | As muriate          | Total |
| 1.00    | 1.12                  | 0.00                      | 16.96               | 18.16 | 0.55                         | 4.64  | 4.09                     |                     | 4.55  |
|         |                       |                           |                     |       | 0.20                         | 15.20 | 15.00                    | 25.56               | 29.60 |
|         |                       |                           |                     |       | 0.40                         | 17.20 | 16.80                    | 20.07               | 20.82 |
| 1.10    | 4.16                  | 0.16                      | 0.12                | 5.54  | 0.00                         | 8.65  | 8.65                     | 6.23                | 7.77  |
| 1.40    | 3.60                  | 0.00                      | 0.00                | 5.00  | 0.20                         | 8.65  | 8.45                     | 7.12                | 7.88  |
| 1.32    | 3.52                  | 0.16                      | 0.00                | 5.00  | 0.20                         | 8.20  | 8.00                     | 6.25                | 7.06  |
| 1.06    | 4.00                  | 0.24                      | 0.10                | 5.40  | 0.00                         | 10.50 | 10.50                    | 5.25                | 6.21  |
| 1.28    | 3.52                  | 0.00                      | 0.00                | 4.80  | 0.20                         | 10.25 | 10.05                    | 4.67                | 5.47  |
| 0.90    | 3.76                  | 0.32                      | 0.18                | 5.16  | 0.30                         | 10.80 | 10.50                    | 5.03                | 5.41  |
| 0.62    | 3.76                  | 0.72                      | 0.22                | 5.32  | 0.12                         | 10.25 | 10.13                    | 4.17                | 5.84  |
| 0.24    | 2.56                  | 2.20                      | 0.00                | 5.00  | 1.16                         | 11.95 | 10.79                    | 5.08                | 5.22  |
| 1.42    | 4.08                  | 0.16                      | 0.10                | 5.76  | 0.20                         | 10.40 | 10.20                    | 9.34                | 10.30 |
| 1.40    | 4.56                  | 0.16                      | 0.00                | 6.12  | 0.20                         | 10.60 | 10.40                    | 8.99                | 10.26 |
| 1.32    | 3.92                  | 0.00                      | 0.00                | 5.24  | 0.10                         | 10.52 | 10.42                    | 7.41                | 10.26 |
| 1.28    | 3.76                  | 0.00                      | 0.00                | 5.04  | 0.30                         | 10.96 | 10.66                    | 4.18                | 10.15 |
| 0.64    | 4.48                  | 0.32                      | 0.00                | 5.44  | 0.00                         | 11.28 | 11.28                    | 9.47                | 10.12 |
| 0.44    | 0.24                  | 2.48                      | 2.84                | 6.00  | 0.20                         | 5.04  | 4.84                     | 0.23                | 5.54  |
| 0.00    | 0.16                  | 3.36                      | 2.04                | 5.56  | 0.15                         | 4.50  | 4.35                     | 0.27                | 6.11  |
| 1.68    | 4.32                  | 0.24                      | 0.00                | 6.24  | 0.20                         | 8.20  | 8.00                     | 5.35                | 8.42  |
| 1.36    | 4.72                  | 0.00                      | 0.00                | 6.08  | 0.00                         | 7.87  | 7.87                     | 5.48                | 7.57  |
| 1.34    | 5.04                  | 0.30                      | 0.00                | 6.68  | 0.15                         | 7.50  | 7.35                     | 4.83                | 7.27  |
| 1.50    | 4.88                  | 0.48                      | 0.14                | 7.00  | 0.33                         | 8.24  | 7.91                     | 6.03                | 7.06  |
| 0.00    | 4.56                  | 3.19                      | 0.45                | 8.20  | 0.15                         | 7.10  | 6.95                     | 3.29                | 4.05  |

<sup>10</sup> Magnesium: Guaranteed 1.20%; found, 1.75%.

<sup>11</sup> Magnesium: Guaranteed 1.20%; found, 1.65%.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.        | Manufacturer and brand                                                  | Place of Sampling |
|--------------------|-------------------------------------------------------------------------|-------------------|
| 6888 <sup>12</sup> | Corenco 8-12-12 .9 mag.                                                 | West Haven        |
| 6238               | Corenco 8-16-16                                                         | West Haven        |
| 6859               | Corenco 8-16-16                                                         | Lisbon            |
| 6891               | Corenco 10-5-5 Liquid Green                                             | West Haven        |
| 6280               | Corenco 10-6-4 Golf & Lawn                                              | North Haven       |
| 6447 <sup>1</sup>  | Corenco 10-10-10                                                        | Cheshire          |
| 6698               | Corenco 10-10-10                                                        | Danielson         |
| 6860               | Corenco 15-10-10                                                        | Lisbon            |
| 6861               | Corenco Organic Turf Fertilizer 5-5-0                                   | Lisbon            |
| 6386               | Corenco Spurz-On 3-2.5-1.5                                              | Thompsonville     |
| 6245               | Corenco Timberline Complete Tree Food 10-8-2                            | West Haven        |
| 6518               | Corenco Turf Green 8-6-4                                                | East Hartford     |
| 6246               | Corenco Turf Green 8-6-4 with Chlordane                                 | West Haven        |
|                    | <u>THE DAVEY TREE EXPERT CO.</u><br>Kent, Ohio                          |                   |
| 6498               | Davey Tree Food 12-4-4                                                  | Old Greenwich     |
|                    | <u>DAVISON CHEMICAL CO., DIV. W. R. GRACE &amp; CO.,</u> Baltimore, Md. |                   |
| 6756               | 0-15-30 Davco Granulated Fertilizer                                     | Torrington        |
| 6937               | 0-20-20 Davco Granulated Fertilizer                                     | Willimantic       |
| 6755               | 5-10-5 Davco Granulated Garden Food                                     | Torrington        |
| 6754               | 5-10-10 Davco Granulated 3G Fertilizer                                  | Torrington        |
| 6750               | 8-16-16 Davco Granulated 3G Fertilizer                                  | New Milford       |
| 6751               | 10-10-10 Davco Granulated 3G Fertilizer                                 | New Milford       |
| 6748               | 15-10-10 Davco Granulated 3G Fertilizer                                 | New Milford       |
| 6938               | Wonder Gro Lawn & Ornamental Plant Food 20-10-5                         | Willimantic       |

~ Indicates deficiencies

<sup>1</sup> State purchase.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen, per cent |                       |                 |       | Phosphoric acid, per cent |       |                       | Potash, per cent |       |
|---------|--------------------|-----------------------|-----------------|-------|---------------------------|-------|-----------------------|------------------|-------|
|         | Ammoniacal         | Water-soluble organic | Water-insoluble | Total | Citrate-insoluble         | Total | So-called "available" | As muriate       | Total |
| 1.52    | 6.48               | 0.00                  | 0.00            | 8.00  | 0.20                      | 14.00 | 13.80                 | 9.36             | 12.35 |
| 1.68    | 6.24               | 0.24                  |                 | 8.16  | 0.05                      | 15.82 | 15.77                 | 13.31            | 16.45 |
| 1.76    | 6.24               | 0.00                  | 0.00            | 8.00  | 0.75                      | 15.82 | 15.07                 | 10.57            | 16.26 |
| 0.42    | 1.92               | 7.36                  | 0.00            | 9.70  | 0.00                      | 7.12  | 7.12                  | 4.25             | 5.19  |
| 0.00    | 5.20               | 3.60                  | 0.98            | 9.78  | 0.20                      | 6.95  | 6.75                  | 4.09             | 4.35  |
| 2.18    | 7.92               | 0.00                  | 0.00            | 10.10 | 0.15                      | 12.55 | 12.40                 | 10.13            | 10.78 |
| 1.40    | 4.80               | 0.04                  | 0.32            | 6.56  | 0.25                      | 11.22 | 10.97                 | 6.03             | 8.05  |
| 1.74    | 10.88              | 2.24                  | 0.14            | 15.00 | 0.20                      | 10.70 | 10.50                 | 7.09             | 10.33 |
| 0.00    | 0.00               | 0.24                  | 5.02            | 5.26  | 1.25                      | 6.60  | 5.35                  |                  |       |
| 0.40    | 0.40               | 1.52                  | 1.60            | 3.92  | 0.35                      | 2.82  | 2.47                  | 0.52             | 1.77  |
| 0.28    | 2.16               | 2.72                  | 3.96            | 9.12  | 0.12                      | 8.27  | 8.15                  | 3.69             | 4.12  |
| 0.00    | 4.80               | 1.04                  | 2.68            | 8.52  | 0.17                      | 5.52  | 5.35                  | 3.61             | 4.30  |
| 0.20    | 3.52               | 1.92                  | 1.84            | 7.48  | 0.15                      | 8.47  | 8.32                  | 4.91             | 4.91  |
| 1.18    | 10.08              | 0.32                  | 0.74            | 12.32 | 0.30                      | 4.50  | 4.20                  | 3.51             | 4.05  |
| 0.92    | 4.24               | 0.00                  | 0.00            | 5.16  | 0.65                      | 18.00 | 17.35                 | 24.37            | 24.88 |
| 0.60    | 4.16               | 0.32                  | 0.00            | 5.08  | 1.15                      | 22.30 | 21.15                 | 19.51            | 20.43 |
| 2.00    | 5.60               | 0.40                  | 0.00            | 8.00  | 0.25                      | 10.65 | 10.40                 | 4.81             | 5.38  |
| 2.82    | 6.72               | 0.48                  | 0.00            | 10.02 | 0.25                      | 10.55 | 10.30                 | 8.35             | 10.08 |
| 2.88    | 10.72              | 1.44                  | 0.00            | 15.04 | 0.30                      | 16.45 | 16.15                 | 14.65            | 16.20 |
| 0.00    | 2.08               | 10.40                 | 7.64            | 20.12 | 0.25                      | 10.50 | 10.25                 | 9.43             | 10.22 |
| 0.00    | 2.08               | 10.40                 | 7.64            | 20.12 | 0.20                      | 10.80 | 10.60                 | 6.67             | 10.40 |
| 0.00    | 2.08               | 10.40                 | 7.64            | 20.12 | 0.38                      | 9.90  | 9.52                  | 4.66             | 5.57  |

<sup>12</sup> Magnesium: Guaranteed, 0.90%; found, 1.27%.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.        | Manufacturer and brand                                                             | Place of Sampling |
|--------------------|------------------------------------------------------------------------------------|-------------------|
|                    | <u>DAYTON FERTILIZER CORP.</u><br>Dayton, N. J.                                    |                   |
| 6428               | Grand Garden Plant Food 6-10-4                                                     | West Hartford     |
| 6427               | Grand Lawn Fertilizer 10-6-4<br>40% Organic                                        | West Hartford     |
| 6598               | Grand Lawn Lightweight Fertilizer<br>15-7-5                                        | Stamford          |
| 6552               | Lawn Treat Lawn & Garden Fertilizer<br>5-10-5                                      | Danbury           |
|                    | <u>E. I. du PONT de NEMOURS &amp; CO.</u><br>Wilmington, Del.                      |                   |
| 6335               | Du Pont Turf Food 20-10-10                                                         | Willimantic       |
| 6297               | Du Pont Turf Food 20-10-10 with<br>2, 4-D Weed Killer                              | Berlin            |
|                    | <u>EASTERN STATES FARMERS'</u><br><u>EXCHANGE, INC.</u><br>West Springfield, Mass. |                   |
| 6265 <sup>13</sup> | Eastern States 0-10-30 With Borax                                                  | North Haven       |
| 6550               | Eastern States 0-25-25                                                             | Bethel            |
| 6392 <sup>14</sup> | Eastern States 5-10-10 1.8 mag.                                                    | Buckland          |
| 6584 <sup>15</sup> | Eastern States 5-10-10 SM 1.2 mag.                                                 | Hazardville       |
| 6391               | Eastern States 8-16-16                                                             | Buckland          |
| 6399 <sup>16</sup> | Eastern States 10-10-10                                                            | Rockville         |
| 6710 <sup>17</sup> | Eastern States 10-15-15 LC                                                         | Putnam            |
| 6862 <sup>18</sup> | Eastern States 10-20-10                                                            | Yantic            |
| 6551               | Eastern States 10-20-20                                                            | Bethel            |
| 6389               | Eastern States 15-10-10                                                            | Buckland          |
| 6400               | Eastern States 15-15-15                                                            | Rockville         |

~~~~~ Indicates deficiencies.

<sup>13</sup> Boron: Guaranteed; 0.30-0.50%; found, 0.55%.

<sup>14</sup> Magnesium: Guaranteed, 1.80%; found, 3.11%.

<sup>15</sup> Magnesium: Guaranteed, 1.20%; found, 2.86.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen,<br>per cent |                           |                     |                 | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |       |
|---------|-----------------------|---------------------------|---------------------|-----------------|------------------------------|-------|--------------------------|---------------------|-------|
|         | Ammoniacal            | Water-<br>soluble organic | Water-<br>insoluble | Total           | Citrate-<br>insoluble        | Total | So-called<br>"available" | As muriate          | Total |
| 1.00    | 4.64                  | 0.48                      | 0.16                | 6.28            | 0.25                         | 10.40 | 10.15                    | 4.16                | 4.21  |
| 0.70    | 5.44                  | 2.16                      | 1.14                | <del>2.44</del> | 0.35                         | 7.05  | 6.70                     | 4.13                | 4.15  |
| 0.30    | 13.36                 | 0.56                      | 0.90                | 15.12           | 0.05                         | 6.90  | 6.85                     | 2.02                | 5.22  |
| 1.16    | 3.20                  | 0.48                      | 0.16                | 5.00            | 0.15                         | 10.35 | 10.20                    | 5.27                | 5.63  |
| 0.62    | 2.72                  | 5.52                      | 11.14               | 20.00           | 0.15                         | 11.15 | 11.00                    | 7.06                | 10.12 |
| 0.00    | 2.88                  | 5.66                      | 11.22               | <u>19.76</u>    | 0.15                         | 10.75 | 10.60                    | 6.56                | 10.04 |
|         |                       |                           |                     |                 | 0.20                         | 11.55 | 11.35                    | 28.57               | 31.34 |
|         |                       |                           |                     |                 | 0.55                         | 25.55 | 25.00                    | 25.60               | 25.60 |
| 1.56    | 3.28                  | 0.40                      | 0.00                | 5.24            | 0.30                         | 11.00 | 10.70                    | 9.38                | 10.55 |
| 1.52    | 3.52                  | 0.24                      | 0.00                | 5.28            | 0.35                         | 10.62 | 10.27                    | 10.07               | 10.74 |
| 2.48    | 5.60                  | 0.32                      | 0.00                | 8.40            | 0.22                         | 16.40 | 16.18                    | 16.14               | 16.43 |
| 2.56    | 7.44                  | 0.72                      | 0.00                | 10.72           | 0.35                         | 10.70 | 10.35                    | 5.18                | 10.78 |
| 1.20    | 7.12                  | 1.68                      | 0.00                | 10.00           | 0.25                         | 15.65 | 15.40                    | 2.43                | 15.10 |
| 1.82    | 6.56                  | 1.44                      | 0.18                | 10.00           | 0.50                         | 20.00 | <u>19.50</u>             | 5.38                | 10.19 |
| 2.28    | 7.44                  | 0.48                      | 0.00                | 10.20           | 0.35                         | 20.70 | <u>20.35</u>             | 19.16               | 20.76 |
| 1.36    | 12.96                 | 0.88                      | 0.00                | 15.20           | 0.10                         | 11.77 | 11.67                    | 8.02                | 10.04 |
| 2.52    | 8.88                  | 3.64                      | 0.00                | 15.04           | 0.05                         | 15.00 | 14.95                    | 15.23               | 15.36 |

<sup>16</sup> Magnesium: Guaranteed, 0.60%; found, 1.27%.

<sup>17</sup> Magnesium: Guaranteed, 1.20%; found, 1.37%.

<sup>18</sup> Magnesium: Guaranteed, 0.60%; found, 1.11%.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.                              | Manufacturer and brand   | Place of Sampling                       |
|--|--|---|
| 6320 <sup>19</sup><br>6267 <sup>20</sup> | Eastern States Green Lawn 10-5-5 2.4<br>Eastern States Green Lawn with<br>Dacthal 10-5-5 2.4 mag.  | Willimantic<br>North Haven              |
| 6318 <sup>21</sup>                       | Eastern States Lawn Special 10-6-4<br><br><u>THE ESPOMA CO.,</u> Millville, N. J.  | Willimantic                             |
| 6472                                     | Bulb-Tone 4-10-6   | Greenwich                               |
| 6470                                     | Espoma Organic 3-2-1   | Greenwich                               |
| 6897                                     | Espoma Rose Food 6-6-4   | Trumbull                                |
| 6896                                     | Garden Tone 4-6-6  | Trumbull                                |
| 6487                                     | Holly-Tone 4-6-4   | Greenwich                               |
| 6895                                     | Turf-Tone 10-6-4<br><br><u>FAESY &amp; BESTHOFF, INC.</u><br>New York, N. Y.   | Trumbull                                |
| 6383 <sup>37</sup><br>6840<br>6837       | F & B All-Purpose Pelletized 10-6-4<br>F & B Garden Food 5.-10-5<br>F & B Rose Food 8-10-4<br><br><u>FIRST NATIONAL STORES, INC.</u><br>East Hartford, Conn. | Thompsonville<br>Fairfield<br>Fairfield |
| 6642<br>6516                             | Emerald Green Lawn Food 12-5-7<br>Emerald Green Plant Food 8-12-6<br><br><u>THE GARDEN CENTER, INC.</u><br>West Hartford, Conn.                              | New Britain<br>East Hartford            |
| 6415                                     | The Garden Center Lawn Food 10-6-4<br><br><u>GLEN TERRACE NURSERIES, INC.</u><br>Hamden, Conn.   | West Hartford                           |
| 6676                                     | Glen Terrace Lawn Food 10-6-4  | Hamden                                  |

~~~~~ Indicates deficiencies.

<sup>19</sup> Magnesium: Guaranteed, 2.40%; found, 5.30%.

<sup>20</sup> Magnesium: Guaranteed, 2.40%; found, 5.07%.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen,<br>per cent |                           |                     |       | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |       |
|---------|-----------------------|---------------------------|---------------------|-------|------------------------------|-------|--------------------------|---------------------|-------|
|         | Ammoniacal            | Water-<br>soluble organic | Water-<br>insoluble | Total | Citrate-<br>insoluble        | Total | So-called<br>"available" | As<br>muriate       | Total |
| 0.00    | 2.40                  | 2.98                      | 4.62                | 10.00 | 0.40                         | 5.75  | 5.35                     | 4.13                | 5.19  |
| 0.42    | 2.24                  | 2.64                      | 4.82                | 10.12 | 0.25                         | 5.85  | 5.60                     | 3.97                | 5.22  |
| 0.00    | 6.24                  | 2.00                      | 2.86                | 11.10 | 0.30                         | 6.90  | 6.60                     | 2.59                | 4.18  |
| 0.32    | 3.52                  | 0.64                      | 1.28                | 5.76  | 0.45                         | 13.30 | 12.85                    | 6.29                | 7.81  |
| 0.00    | 2.08                  | 0.60                      | 1.52                | 4.20  | 0.40                         | 4.20  | 3.80                     | 1.08                | 2.85  |
| 0.30    | 3.84                  | 0.32                      | 2.34                | 6.80  | 0.35                         | 6.25  | 5.90                     | 4.65                | 6.21  |
| 0.34    | 4.24                  | 0.16                      | 0.90                | 5.64  | 0.35                         | 6.68  | 6.33                     | 6.32                | 8.29  |
| 0.00    | 2.48                  | 0.64                      | 1.92                | 5.04  | 0.55                         | 7.40  | 6.85                     | 5.60                | 6.89  |
| 0.44    | 8.00                  | 3.68                      | 0.88                | 13.00 | 0.40                         | 6.64  | 6.24                     | 1.83                | 4.00  |
| 1.76    | 7.52                  | 0.48                      | 0.00                | 9.76  | 0.25                         | 7.47  | 7.22                     | 3.61                | 4.71  |
| 1.20    | 2.40                  | 0.08                      | 1.80                | 5.48  | 0.80                         | 12.40 | 11.60                    | 5.66                | 5.90  |
| 1.02    | 4.72                  | 1.28                      | 1.30                | 8.32  | 0.75                         | 11.17 | 10.42                    | 4.06                | 5.07  |
| 0.00    | 6.24                  | 5.44                      | 0.60                | 12.28 | 0.25                         | 6.17  | 5.92                     | 5.44                | 7.20  |
| 0.80    | 4.80                  | 0.96                      | 0.60                | 7.16  | 0.25                         | 12.30 | 12.05                    | 3.68                | 6.11  |
| 0.00    | 5.12                  | 3.20                      | 1.38                | 9.70  | 0.60                         | 7.23  | 6.63                     | 3.86                | 4.15  |
| 0.00    | 4.64                  | 4.08                      | 1.28                | 10.00 | 0.60                         | 7.22  | 6.62                     | 4.09                | 4.24  |

<sup>21</sup> Magnesium: Guaranteed, 2.40%; found, 3.51%.

<sup>37</sup> Manganese: Guaranteed, 0.136%; found, 0.032%. Copper: Guaranteed, 0.05%; found, 0.044. Zinc: G., 0.05%; f., 0.013%.



TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.        | Manufacturer and brand                                                                                                          | Place of Sampling |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 6845               | <u>GLORION DIVISION, ALUMINUM &amp; CHEMICAL CORP.</u><br>Greenwich, Conn.<br>Glorion 4-8-8                                     | Stratford         |
| 6661               | <u>GODFREY'S GARDEN SHOP</u><br>Fairfield, Conn.<br>Godfrey's Lawn & Tree Food 10-5-5                                           | Fairfield         |
| 6654               | <u>GOULARD &amp; OLENA, INC.</u><br>Skillman, N. J.<br>G & O Blue Ribbon for Fine Lawns,<br>Flowers, Shrubs & Vegetables 5-10-5 | Norwalk           |
| 6663               | G & O Evergreen Food 5-10-10                                                                                                    | Fairfield         |
| 6655               | G & O Green Ribbon 10-6-4                                                                                                       | Norwalk           |
| 6339               | G & O Hyganic Lawn Food 10-6-4                                                                                                  | Manchester        |
| 6343               | G & O Light Fantastic Lawn Food<br>20-6-4                                                                                       | Manchester        |
| 6432               | G & O Plant Food for Acid Loving<br>Plants 6-10-4                                                                               | West Hartford     |
| 6340               | G & O Prizegro 5-10-5                                                                                                           | Manchester        |
| 6658 <sup>22</sup> | G & O Rose Food 7-8-5                                                                                                           | Norwalk           |
| 6664               | G & O Tomato Food 5-10-10                                                                                                       | Fairfield         |
| 6434               | G & O Turf Food and Insecticide<br>10-6-4 with Chlordane                                                                        | West Hartford     |
| 6435               | Goulard's Formula 8-15-5 (No Filler<br>& 100% Organic)                                                                          | West Hartford     |
| 6354               | <u>GREEN RIBBON PRODUCTS CO.</u><br>North Haven, Conn.<br>Green Ribbon Lawn Food 10-6-4                                         | Manchester        |
| 6466               | Green Ribbon Plant Food 5-10-5                                                                                                  | Middletown        |

~~~~~ Indicates deficiencies.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen,<br>per cent |                           |                     |         | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |         |
|---------|-----------------------|---------------------------|---------------------|---------|------------------------------|-------|--------------------------|---------------------|---------|
|         | Ammoniacal            | Water-<br>soluble organic | Water-<br>insoluble | T total | Citrate-<br>insoluble        | Total | So-called<br>"available" | As<br>muriate       | T total |
| 0.68    | 2.96                  | 0.32                      | 0.12                | 4.08    | 0.23                         | 9.55  | 9.32                     | 4.89                | 8.29    |
| 0.84    | 1.36                  | 5.60                      | 2.20                | 10.00   | 0.30                         | 5.50  | 5.20                     | 4.36                | 5.19    |
| 1.20    | 4.40                  | 0.24                      | 0.36                | 6.20    | 0.55                         | 10.20 | 9.65                     | 4.34                | 5.31    |
| 1.44    | 3.60                  | 0.00                      | 0.00                | 5.04    | 0.70                         | 11.00 | 10.30                    | 6.39                | 10.44   |
| 1.26    | 7.28                  | 0.96                      | 0.50                | 10.00   | 0.70                         | 8.15  | 7.45                     | 3.48                | 4.46    |
| 0.76    | 5.04                  | 3.12                      | 2.00                | 10.92   | 0.30                         | 6.80  | 6.50                     | 4.30                | 4.30    |
| 0.80    | 4.56                  | 8.40                      | 7.04                | 20.80   | 0.00                         | 6.30  | 6.30                     | 3.25                | 4.59    |
| 0.90    | 5.04                  | 0.00                      | 0.22                | 6.16    | 0.90                         | 12.06 | 11.16                    | 4.75                | 5.50    |
| 0.98    | 3.60                  | 0.32                      | 0.74                | 5.64    | 0.39                         | 11.10 | 10.71                    | 4.29                | 5.19    |
| 0.84    | 5.04                  | 0.80                      | 0.60                | 7.28    | 0.50                         | 8.90  | 8.40                     | 3.15                | 5.54    |
| 0.94    | 2.64                  | 0.88                      | 0.54                | 5.00    | 0.50                         | 10.72 | 10.22                    | 7.84                | 10.30   |
| 0.72    | 5.36                  | 2.32                      | 1.60                | 10.00   | 0.35                         | 6.55  | 6.20                     | 3.89                | 4.39    |
| 0.24    | 1.84                  | 3.84                      | 3.28                | 9.20    | 0.47                         | 12.40 | 11.93                    | 5.05                | 5.66    |
| 0.00    | 8.28                  | 1.96                      | 0.16                | 10.40   | 0.25                         | 7.25  | 7.00                     | 3.88                | 4.33    |
| 0.00    | 3.48                  | 1.82                      | 0.18                | 5.48    | 0.40                         | 10.70 | 10.30                    | 4.69                | 5.28    |

<sup>22</sup> Iron: Guaranteed, 0.15%; found, 0.76%.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and brand                                     | Place of Sampling |
|-------------|--|-------------------|
|             | <u>HALSTEAD DISTRIBUTING CORP.</u><br>Mt. Kisco, N. Y.     |                   |
| 6603        | Just Right 5-10-5  | Darien            |
| 6601        | Just Right 10-6-4  | Darien            |
|             | <u>THE CHARLES C. HART SEED CO.</u><br>Wethersfield, Conn. |                   |
| 6783        | Deane's Formula 22-35X 20-10-5                             | Wethersfield      |
| 6785        | Hart's All-Organic Plant Food 5-4-0                        | Wethersfield      |
| 6416        | Hart's All Purpose Plant Food 5-10-5                       | West Hartford     |
| 6784        | Hart's Crabgrass Seed Killer & Lawn Fertilizer 10-6-4      | Wethersfield      |
| 6684        | Hart's Plant Food 5-10-5                                   | North Haven       |
| 6394        | Hart's Turf Food 20-10-5                                   | Manchester        |
| 6801        | Hart's Two-For-One 10-6-4 with 2, 4-D                      | Wethersfield      |
|             | <u>HERSHEY ESTATES, INC.</u><br>Hershey, Pa.               |                   |
| 6484        | Ko-K-O Meal 3-1-3  | Greenwich         |
|             | <u>THE HUBBARD-HALL CHEMICAL CO.</u><br>Waterbury, Conn.   |                   |
| 6728        | Green Gro Lawn Fertilizer 6-7-4                            | Norwich           |
| 6765        | HH Blade Lawn Food 20-6-4                                  | Portland          |
| 6770        | HH Bulb Food 7-10-4  | Portland          |
| 6274        | HH Evergreen Food 4-10-4                                   | Cheshire          |
| 6936        | HH Gro-Fast Sol Water Soluble Concentrate 16-20-16         | Portland          |
| 6717        | HH Gro Mor Garden Fertilizer 5-10-10                       | Danielson         |
| 6616        | HH Lawn Fertilizer with Chlordane 8-6-4                    | Darien            |
| 6273        | HH Luxura Lawn Food (Urea-Form) 10-5-5                     | Cheshire          |
| 6606        | HH Nitrognic 5-4-0   | Darien            |
| 6349        | HH Plant Food 5-10-5                                       | Manchester        |

~~~~~ Indicates deficiencies

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen, per cent |                       |                 |       | Phosphoric acid, per cent |       |                       | Potash, per cent |       |
|---------|--------------------|-----------------------|-----------------|-------|---------------------------|-------|-----------------------|------------------|-------|
|         | Ammoniacal         | Water-soluble organic | Water-insoluble | Total | Citrate insoluble         | Total | So-called "available" | As muriate       | Total |
| 0.00    | 4.00               | 1.04                  | 0.00            | 5.04  | 0.25                      | 10.25 | 10.00                 | 4.61             | 5.22  |
| 0.58    | 5.68               | 2.40                  | 1.74            | 10.40 | 0.70                      | 7.15  | 6.45                  | 2.92             | 4.21  |
| 0.40    | 5.92               | 11.36                 | 3.12            | 20.80 | 0.20                      | 11.37 | 11.17                 | 3.81             | 5.07  |
| 0.00    | 0.32               | 0.36                  | 4.64            | 5.32  | 1.20                      | 7.12  | 5.92                  |                  |       |
| 1.28    | 3.36               | 0.24                  | 0.20            | 5.08  | 0.40                      | 10.40 | 10.00                 | 3.05             | 4.59  |
| 0.00    | 4.48               | 4.48                  | 1.68            | 10.64 | 0.40                      | 6.47  | 6.07                  | 3.36             | 4.12  |
| 0.54    | 4.40               | 0.16                  | 0.14            | 5.24  | 0.30                      | 10.65 | 10.35                 | 5.61             | 6.04  |
| 0.00    | 5.28               | 12.00                 | 3.52            | 20.80 | 0.25                      | 11.55 | 11.30                 | 5.00             | 5.00  |
| 0.00    | 4.64               | 4.40                  | 1.44            | 10.48 | 0.53                      | 7.04  | 6.51                  | 2.79             | 4.62  |
| 0.00    | 0.32               | 1.00                  | 2.20            | 3.52  | 0.10                      | 1.45  | 1.35                  |                  | 3.29  |
| 0.20    | 3.76               | 1.76                  | 0.52            | 6.24  | 0.45                      | 7.60  | 7.15                  | 4.05             | 4.21  |
| 0.66    | 4.16               | 12.64                 | 1.48            | 18.94 | 0.60                      | 6.48  | 5.88                  | 0.57             | 4.97  |
| 0.00    | 3.68               | 3.36                  | 1.20            | 8.24  | 0.20                      | 9.50  | 9.30                  | 0.49             | 4.75  |
| 0.12    | 1.92               | 1.28                  | 1.08            | 4.40  | 0.35                      | 10.67 | 10.32                 | 3.51             | 4.49  |
| 2.80    | 4.80               | 8.48                  | 0.00            | 16.08 | 0.05                      | 20.20 | 20.15                 | 14.29            | 16.20 |
| 0.54    | 3.68               | 0.56                  | 0.58            | 5.36  | 0.70                      | 11.50 | 10.80                 | 8.07             | 9.25  |
| 0.44    | 3.84               | 2.80                  | 1.00            | 8.08  | 0.50                      | 7.05  | 6.55                  | 4.08             | 4.24  |
| 0.54    | 2.24               | 4.24                  | 4.22            | 11.24 | 0.27                      | 6.00  | 5.73                  | 3.51             | 5.00  |
| 0.00    | 0.16               | 0.52                  | 4.40            | 5.08  | 1.20                      | 5.72  | 4.52                  |                  |       |
| 0.00    | 3.68               | 1.12                  | 0.78            | 5.58  | 0.37                      | 10.70 | 10.33                 | 5.05             | 5.22  |

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.        | Manufacturer and brand                               | Place of Sampling |
|--------------------|------------------------------------------------------|-------------------|
| 6650               | HH Rose Food 7-10-5                                  | Bridgeport        |
| 6759 <sup>1</sup>  | HH Rose Food 7-10-5                                  | Torrington        |
| 6729               | HH Turf & Tree Food 10-6-4                           | Norwich           |
| 6776               | Lawn Craft Turf Fertilizer 10-6-4                    | Portland          |
| 6257               | Lawn Craft 8-6-4 Turf Food (50% Nitrogen Organic)    | North Haven       |
| 6255               | Lawn Craft 10-6-4 Turf Food (50% Nitrogen Organic)   | North Haven       |
| 6931               | Liberty 0-15-30                                      | Portland          |
| 6271 <sup>1</sup>  | Liberty 0-15-30                                      | Cheshire          |
| 6570               | Liberty 0-20-20                                      | Windsorville      |
| 6572               | Liberty 0-25-25                                      | Windsorville      |
| 6341               | Liberty 5-8-7                                        | Manchester        |
| 6348               | Liberty 5-10-5                                       | Manchester        |
| 6256               | Liberty 5-10-10                                      | North Haven       |
| 6646               | Liberty 5-10-10 with 8 lbs. of Actual Aldrin per ton | Plainville        |
| 6808 <sup>23</sup> | Liberty 5-10-10 1.2 mag.                             | Cromwell          |
| 6464               | Liberty 7-7-7                                        | Meriden           |
| 6917 <sup>24</sup> | Liberty 8-12-12 1.2 mag.                             | Windsorville      |
| 6918               | Liberty 8-16-16                                      | Windsorville      |
| 6302               | Liberty 10-6-4                                       | Kensington        |
| 6263               | Liberty 10-10-10                                     | North Haven       |
| 6685 <sup>1</sup>  | Liberty 10-10-10                                     | Danielson         |
| 6565               | Liberty 15-10-10                                     | Windsorville      |
| 6777               | Liberty 15-15-15                                     | Portland          |
| 6775               | Liberty 16-8-16                                      | Portland          |
| 6569               | Liberty Super Corn 10-10-10                          | Windsorville      |
| 6644 <sup>25</sup> | Liberty Super Gro 5-10-10 1.2 mag.                   | Plainville        |
| 6567               | Liberty Super Gro 8-16-16 Fertilizer                 | Windsorville      |
| 6915 <sup>26</sup> | Liberty Super Spud Fertilizer 6-8-8 1.2 mag.         | Windsorville      |

~~~~~ Indicates deficiencies.

<sup>1</sup> State purchase.

<sup>23</sup> Magnesium: Guaranteed, 1.20%; found, 1.42%.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen, per cent |                       |                 |       | Phosphoric acid, per cent |       |                       | Potash, per cent |       |
|---------|--------------------|-----------------------|-----------------|-------|---------------------------|-------|-----------------------|------------------|-------|
|         | Ammoniacal         | Water-soluble organic | Water-insoluble | Total | Citrate-insoluble         | Total | So-called "available" | As muriate       | Total |
| 0.00    | 3.76               | 3.36                  | 1.04            | 8.16  | 0.15                      | 8.37  | 8.22                  | 0.58             | 4.59  |
| 0.20    | 3.60               | 2.56                  | 1.16            | 7.52  | 0.15                      | 9.30  | 9.15                  | 0.25             | 5.10  |
| 0.00    | 5.28               | 3.68                  | 1.40            | 10.36 | 0.55                      | 6.67  | 6.12                  | 3.23             | 4.21  |
| 0.20    | 4.80               | 3.76                  | 1.24            | 10.00 | 0.65                      | 7.18  | 6.53                  | 4.48             | 4.49  |
| 0.00    | 4.32               | 2.90                  | 0.78            | 8.00  | 0.30                      | 6.62  | 6.32                  | 4.09             | 4.15  |
| 0.00    | 2.80               | 7.68                  | 0.24            | 10.72 | 0.22                      | 6.65  | 6.43                  | 1.95             | 4.65  |
|         |                    |                       |                 |       | 0.70                      | 17.05 | 16.35                 | 26.46            | 29.56 |
|         |                    |                       |                 |       | 0.67                      | 15.60 | 14.93                 | 24.75            | 27.24 |
|         |                    |                       |                 |       | 0.75                      | 21.00 | 20.25                 | 16.57            | 20.83 |
|         |                    |                       |                 |       | 0.15                      | 25.10 | 24.95                 | 23.13            | 24.46 |
| 0.72    | 4.00               | 0.64                  | 0.24            | 5.60  | 0.21                      | 8.50  | 8.29                  | 6.00             | 6.79  |
| 0.18    | 3.36               | 1.52                  | 0.22            | 5.28  | 0.20                      | 10.70 | 10.50                 | 5.30             | 5.54  |
| 0.00    | 4.32               | 0.60                  | 0.32            | 5.24  | 0.20                      | 10.60 | 10.40                 | 8.27             | 10.04 |
| 1.14    | 2.24               | 1.92                  | 0.14            | 5.44  | 0.50                      | 10.80 | 10.30                 | 7.36             | 9.11  |
| 0.68    | 4.40               | 0.48                  | 0.00            | 5.56  | 0.40                      | 10.55 | 10.15                 | 8.27             | 10.33 |
| 0.26    | 5.32               | 1.32                  | 0.22            | 7.12  | 0.35                      | 8.17  | 7.82                  | 6.22             | 6.65  |
| 1.84    | 5.68               | 0.40                  | 0.08            | 8.00  | 0.55                      | 12.40 | 11.85                 | 12.54            | 12.54 |
| 1.56    | 6.32               | 0.40                  | 0.00            | 8.28  | 0.50                      | 16.64 | 16.14                 | 16.03            | 16.03 |
| 0.24    | 9.20               | 0.80                  | 0.16            | 10.40 | 0.15                      | 6.85  | 6.70                  | 1.43             | 4.08  |
| 0.00    | 9.20               | 0.72                  | 0.44            | 10.36 | 0.27                      | 11.05 | 10.78                 | 7.81             | 10.01 |
| 1.60    | 6.16               | 2.00                  | 0.24            | 10.00 | 0.40                      | 11.25 | 10.85                 | 7.93             | 10.08 |
| 1.68    | 12.32              | 0.16                  | 0.00            | 14.16 | 0.40                      | 10.85 | 10.45                 | 6.28             | 8.05  |
| 0.00    | 14.40              | 0.48                  | 0.20            | 15.08 | 0.15                      | 17.70 | 17.55                 | 8.63             | 13.50 |
| 1.64    | 13.76              | 0.48                  | 0.12            | 16.00 | 0.10                      | 8.25  | 8.15                  | 13.24            | 16.02 |
| 2.00    | 7.44               | 0.00                  | 0.00            | 2.44  | 0.30                      | 10.45 | 10.15                 | 10.50            | 12.31 |
| 1.48    | 3.60               | 0.00                  | 0.00            | 5.08  | 0.30                      | 10.40 | 10.10                 | 4.97             | 10.22 |
| 2.48    | 5.44               | 0.08                  | 0.00            | 8.00  | 0.55                      | 17.00 | 16.45                 | 13.96            | 16.38 |
| 1.28    | 4.96               | 0.16                  | 0.00            | 6.40  | 0.40                      | 9.28  | 8.88                  | 8.46             | 8.46  |

<sup>24</sup> Magnesium: Guaranteed, 1.20%; found, 1.67%.

<sup>25</sup> Magnesium: Guaranteed, 1.20%; found, 2.82%.

<sup>26</sup> Magnesium: Guaranteed, 1.20%; found, 1.61%.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.        | Manufacturer and brand  | Place of Sampling |
|--------------------|---|-------------------|
| 6566 <sup>27</sup> | Liberty Super Spud Fertilizer<br>8-10-10 1.2 mag.                       | Windsorville      |
| 6568 <sup>28</sup> | Liberty Super Spud "500" 5-8-8<br>1.2 mag.                              | Windsorville      |
| 6920 <sup>29</sup> | Liberty Super Tobacco Fertilizer<br>6-4-7 1.2 mag.                      | Windsorville      |
| 6573               | Liberty Tobacco Fertilizer 6-3-6  | Windsorville      |
| 6769               | Liberty Tobacco Fertilizer 6-3-6<br>Half & Half                         | Portland          |
| 6258               | Woodruff's 10-5-5 Lawn & Tree Food                                      | North Haven       |
| 6454 <sup>1</sup>  | Woodruff's 10-5-5 Lawn & Tree Food                                      | Meriden           |
|                    | <u>INTERNATIONAL MINERALS &amp;<br/>CHEMICAL CORP.</u><br>Woburn, Mass. |                   |
| 6637               | Fertilis All-Purpose Plant Food<br>5-10-5                               | Hartford          |
| 6818               | Fertilis All-Purpose Plant Food<br>10-6-4                               | North Haven       |
| 6817               | Thrive Lawn Food 20-6-4   | North Haven       |
|                    | <u>KEN-BRIS FARMS, INC.</u><br>Philadelphia, Pa.                        |                   |
| 6900               | Society Hill Lawn Feeder 20-10-5  | Bridgeport        |
| 6898               | Society Hill Weeder-Feeder 10-6-4                                       | Bridgeport        |
|                    | <u>LAWN-TEX, INC.,</u> Chicago, Ill.                                    |                   |
| 6605               | Organi-Green Lawn Food 5-5-5  | Darien            |

~ Indicates deficiencies.

<sup>1</sup> State purchase.

<sup>27</sup> Magnesium: Guaranteed, 1.20%; found, 1.91%.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen<br>per cent |                           |                     |             | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |             |
|---------|----------------------|---------------------------|---------------------|-------------|------------------------------|-------|--------------------------|---------------------|-------------|
|         | Ammoniacal           | Water-<br>soluble organic | Water-<br>insoluble | Total       | Citrate-<br>insoluble        | Total | So-called<br>"available" | As<br>muriate       | Total       |
| 1.44    | 7.20                 | 0.24                      | 0.00                | 8.88        | 0.35                         | 11.25 | 10.90                    | 4.21                | <u>8.90</u> |
| 0.50    | 1.84                 | 0.24                      | 0.50                | <u>3.08</u> | 0.65                         | 14.10 | 13.45                    | 14.92               | 17.28       |
| 1.36    | 0.16                 | 1.60                      | 2.88                | 6.00        | 0.20                         | 5.25  | 5.05                     |                     | 7.20        |
| 1.64    | 0.24                 | 1.44                      | 2.68                | 6.00        | 0.20                         | 3.80  | 3.60                     | 0.31                | 6.31        |
| 1.20    | 0.16                 | 1.84                      | 2.80                | 6.00        | 0.23                         | 3.96  | 3.73                     |                     | 6.07        |
| 0.38    | 3.44                 | 4.96                      | 0.82                | <u>9.60</u> | 0.20                         | 5.27  | 5.07                     | 4.16                | 5.07        |
| 0.00    | 3.20                 | 5.52                      | 0.94                | <u>9.66</u> | 0.45                         | 5.50  | 5.05                     | 4.12                | 5.00        |
| 0.94    | 3.68                 | 0.32                      | 0.14                | 5.08        | 0.00                         | 10.35 | 10.35                    | 7.08                | 9.07        |
| 0.00    | 5.12                 | 1.62                      | 3.42                | 10.16       | 0.40                         | 11.32 | 10.92                    | 4.36                | 4.36        |
| 0.00    | 5.12                 | 13.24                     | 1.64                | 20.00       | 0.90                         | 5.84  | <u>4.94</u>              |                     | 4.77        |
| 0.92    | 3.52                 | 17.12                     | 2.04                | 23.60       | 0.05                         | 11.20 | 11.15                    | 0.48                | <u>4.39</u> |
| 0.38    | 4.00                 | 7.68                      | 0.82                | 12.88       | 0.70                         | 9.70  | 9.00                     | 4.30                | <u>4.33</u> |
| 0.34    | 0.00                 | 0.32                      | 4.34                | 5.00        | 0.95                         | 6.90  | 5.95                     | 0.31                | <u>0.59</u> |

<sup>28</sup> Magnesium: Guaranteed, 1.20%; found, 1.20%.

<sup>29</sup> Magnesium: Guaranteed, 1.20%; found, 1.92%.



TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.        | Manufacturer and brand   | Place of Sampling |
|--------------------|--|-------------------|
|                    | <u>LEBANON CHEMICAL CORP.</u><br>Lebanon, Pa.                  |                   |
| 6636 <sup>30</sup> | Lebanon Azalea & Evergreen Fertilizer with Chelated Iron 6-7-5 | Hartford          |
| 6921               | Lebanon Crab Seed Killer & Lawn Fertilizer 10-6-4              | Hartford          |
| 6632               | Lebanon Fertilizer 5-10-10                                     | Hartford          |
| 6841               | Lebanon Hi Organic 10-6-4                                      | Stratford         |
| 6782 <sup>31</sup> | Lebanon Rose Food 7-7-7  | Wethersfield      |
| 6919               | Lebanon Truck Crop 5-10-5                                      | Hartford          |
| 6633               | Lebanon Turf Organic 5-4-0                                     | Hartford          |
| 6412 <sup>32</sup> | Lebanon Uni-Form 10-6-4  | West Hartford     |
| 6288               | Pennsylvania Dutch 5-10-5                                      | Berlin            |
| 6843               | Pennsylvania Dutch 5-10-5                                      | Stratford         |
| 6626               | Pennsylvania Dutch 10-6-4                                      | Hartford          |
| 6844               | Pennsylvania Dutch 10-6-4 (100% Organic Nitrogen)              | Stratford         |
|                    | <u>LEE PATTEN SEED CO.</u><br>Jersey City, N. J.               |                   |
| 6639               | Patco's Allganic 4-6-2   | Hartford          |
| 6638               | Patco's Combo Complete Lawn Food Plus Weed Killer 10-6-4       | Hartford          |
| 6721               | Patco's Featherweight Lawn Food 20-10-5                        | Norwich           |
| 6338               | Patco's Lawn Food 9-8-3  | Manchester        |
|                    | <u>LUZERNE FERTILIZER CO.</u><br>Nescopeck, Pa.                |                   |
| 6547               | Luzerne All Purpose Plant Food 5-10-5                          | Newtown           |

~~~~ Indicates deficiencies.

<sup>30</sup> Iron: Guaranteed, 0.075%; found, 1.59%.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen, per cent |                       |                 |             | Phosphoric acid, per cent |       |                       | Potash, per cent |             |
|---------|--------------------|-----------------------|-----------------|-------------|---------------------------|-------|-----------------------|------------------|-------------|
|         | Ammoniacal         | Water-soluble organic | Water-insoluble | Total       | Citrate-insoluble         | Total | So-called "available" | As muriate       | Total       |
| 0.22    | 4.80               | 1.12                  | 1.26            | 7.40        | 0.55                      | 7.85  | 7.30                  | 6.47             | 7.03        |
| 0.00    | 4.32               | 4.80                  | 1.36            | 10.48       | 0.40                      | 6.40  | 6.00                  | 2.93             | 4.02        |
| 1.16    | 3.28               | 0.80                  | 0.12            | 5.36        | 0.20                      | 10.50 | 10.30                 | 8.42             | <u>9.47</u> |
| 0.00    | 4.16               | 4.96                  | 0.90            | 10.02       | 0.25                      | 6.30  | 6.05                  | 2.52             | <u>4.15</u> |
| 0.00    | 5.36               | 0.80                  | 1.20            | 7.36        | 0.60                      | 7.70  | 7.10                  | 5.96             | 7.27        |
| 1.40    | 4.08               | 0.00                  | 0.80            | 6.28        | 0.30                      | 11.14 | 10.84                 | 1.98             | <u>4.05</u> |
| 0.00    | 0.00               | 0.40                  | 4.60            | 5.00        | 1.30                      | 6.45  | 5.15                  |                  |             |
| 0.00    | 1.28               | 5.36                  | 4.40            | 11.04       | 0.32                      | 7.10  | 6.78                  | 3.09             | <u>3.57</u> |
| 1.20    | 2.00               | 2.32                  | 0.16            | 5.68        | 0.14                      | 10.62 | 10.48                 | 4.49             | <u>5.47</u> |
| 1.22    | 3.44               | 0.16                  | 0.00            | <u>4.82</u> | 0.30                      | 10.20 | 9.90                  | 4.49             | 5.22        |
| 1.10    | 8.32               | 0.56                  | 0.22            | 10.20       | 0.10                      | 6.82  | 6.72                  | 2.74             | 4.02        |
| 0.00    | 3.68               | 5.36                  | 1.08            | 10.12       | 0.30                      | 6.97  | 6.67                  | 2.62             | 5.31        |
| 0.00    | 0.00               | 0.32                  | 3.82            | 4.14        | 0.70                      | 6.70  | 6.00                  | 2.14             | 2.49        |
| 0.00    | 5.12               | 4.08                  | 1.50            | 10.70       | 0.35                      | 6.65  | 6.30                  | 2.42             | 4.27        |
| 0.00    | 5.12               | 12.32                 | 4.00            | 21.44       | 0.40                      | 12.40 | 12.00                 | 2.22             | 5.03        |
| 0.74    | 4.72               | 1.44                  | 1.82            | <u>8.72</u> | 0.15                      | 8.50  | 8.35                  | 3.00             | 3.29        |
| 0.00    | 3.44               | 1.76                  | 0.12            | 5.32        | 0.45                      | 11.62 | 11.17                 | 5.02             | 5.60        |

<sup>31</sup> Iron: Guaranteed, 0.075%; found, 1.38%.

<sup>32</sup> Iron: Guaranteed, 0.15%; found, 1.94%.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.        | Manufacturer and brand                                          | Place of Sampling |
|--------------------|-----------------------------------------------------------------|-------------------|
|                    | <u>THE MAMLON CO., New Haven, Conn.</u>                         |                   |
| 6279               | Fer-Mel Lawn Food 25-12-10                                      | North Haven       |
| 6628               | Fer-Mel Water Soluble General Purpose Plant Food 18-18-18       | Portland          |
| 6688               | Fer-Mel Water Soluble Turf & Tree Food 24-12-12                 | Wethersfield      |
| 6629               | Fer-Mel Water Soluble Turf & Tree Food 24-12-12                 | Portland          |
|                    | <u>McARDLE'S SEED CO.</u><br>Greenwich, Conn.                   |                   |
| 6468               | McArdle's Lawn & Tree Food 10-6-4                               | Greenwich         |
|                    | <u>OLD FOX AGRICULTURAL SALES, INC., East Providence, R. I.</u> |                   |
| 6825               | Green Lawn Fertilizer 8-6-4                                     | Plantsville       |
| 6908               | Old Fox Brand 0-15-30                                           | Hazardville       |
| 6557 <sup>1</sup>  | Old Fox Brand 0-15-30 with 20 lbs. Borax to Ton                 | Newtown           |
| 6734 <sup>1</sup>  | Old Fox Brand 0-15-30 w/20 lbs Borax                            | Storrs            |
| 6369               | Old Fox Brand 0-20-20                                           | Hazardville       |
| 6270 <sup>1</sup>  | Old Fox Brand 0-20-20                                           | Cheshire          |
| 6367               | Old Fox Brand 4-16-20                                           | Hazardville       |
| 6715               | Old Fox Brand 5-10-5                                            | Putnam            |
| 6738 <sup>1</sup>  | Old Fox Brand 5-10-5                                            | Storrs            |
| 6910               | Old Fox Brand 5-10-5                                            | Hazardville       |
| 6914               | Old Fox Brand 5-10-10                                           | Hazardville       |
| 6368               | Old Fox Brand 5-10-10 1.2 mag.                                  | Hazardville       |
| 6374               | Old Fox 6-3-6 Tobacco Fertilizer                                | Hazardville       |
| 6372 <sup>33</sup> | Old Fox 6-3-6 Tobacco Fertilizer 1.2 mag.                       | Hazardville       |
| 6913 <sup>34</sup> | Old Fox Brand 6-8-8 1.2 mag.                                    | Hazardville       |

~~~~~ Indicates deficiencies.

<sup>1</sup> State purchase.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen, per cent |                       |                 |       | Phosphoric acid, per cent |       |                       | Potash, per cent |       |
|---------|--------------------|-----------------------|-----------------|-------|---------------------------|-------|-----------------------|------------------|-------|
|         | Ammoniacal         | Water-soluble organic | Water-insoluble | Total | Citrate-insoluble         | Total | So-called "available" | As muriate       | Total |
| 0.36    | 4.64               | 19.60                 | 0.12            | 24.72 | 0.05                      | 12.27 | 12.22                 | 6.67             | 10.37 |
| 2.80    | 6.40               | 9.44                  | 0.00            | 18.64 | 0.00                      | 16.10 | 16.10                 | 13.53            | 18.86 |
| 3.28    | 4.88               | 18.16                 | 0.00            | 26.32 | 0.00                      | 11.85 | 11.85                 | 12.44            | 13.35 |
| 0.44    | 3.74               | 24.58                 | 0.00            | 28.76 | 0.10                      | 12.15 | 12.05                 | 11.45            | 12.31 |
| 0.00    | 5.36               | 3.38                  | 1.44            | 10.18 | 0.45                      | 8.73  | 8.28                  | 3.61             | 4.12  |
| 0.92    | 7.68               | 0.08                  | 0.00            | 8.68  | 0.20                      | 7.10  | 6.90                  | 3.33             | 4.24  |
|         |                    |                       |                 | 2.26  | 0.30                      | 16.00 | 15.70                 | 18.73            | 20.68 |
|         |                    |                       |                 |       | 0.30                      | 15.85 | 15.55                 | 25.34            | 31.08 |
|         |                    |                       |                 |       | 0.20                      | 26.60 | 26.40                 | 31.08            | 33.96 |
|         |                    |                       |                 |       | 0.35                      | 20.75 | 20.40                 | 15.35            | 18.10 |
|         |                    |                       |                 |       | 0.30                      | 20.55 | 20.25                 | 19.39            | 20.65 |
| 1.02    | 3.20               | 0.08                  | 0.10            | 4.40  | 0.45                      | 15.60 | 15.15                 | 17.84            | 20.40 |
| 1.28    | 3.84               | 0.00                  | 0.00            | 5.12  | 0.80                      | 10.95 | 10.15                 | 4.45             | 5.50  |
| 1.34    | 2.00               | 2.00                  | 0.00            | 5.34  | 0.95                      | 11.35 | 10.40                 | 2.99             | 6.14  |
| 1.08    | 4.80               | 0.16                  | 0.00            | 6.04  | 0.25                      | 10.48 | 10.23                 | 3.81             | 5.34  |
| 0.76    | 4.32               | 0.40                  | 0.36            | 5.84  | 0.15                      | 10.20 | 10.05                 | 7.04             | 8.69  |
| 1.08    | 3.52               | 0.40                  | 0.14            | 5.14  | 0.30                      | 11.15 | 10.85                 | 8.39             | 11.24 |
| 0.54    | 1.68               | 2.00                  | 2.26            | 6.48  | 0.15                      | 3.55  | 3.40                  | 0.85             | 5.63  |
| 0.42    | 0.80               | 2.00                  | 2.90            | 6.12  | 0.10                      | 3.00  | 2.90                  | 0.25             | 6.38  |
| 0.22    | 5.44               | 0.40                  | 0.14            | 6.20  | 0.15                      | 9.28  | 9.13                  | 6.25             | 8.12  |

<sup>33</sup> Magnesium: Guaranteed, 1.20%; found, 2.59%.

<sup>34</sup> Magnesium: Guaranteed, 1.20%; found, 1.85%.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.        | Manufacturer and brand   | Place of Sampling |
|--------------------|--|-------------------|
| 6906 <sup>35</sup> | Old Fox Brand 6-10-10 1.2 mag.   | Hazardville       |
| 6735 <sup>1</sup>  | Old Fox Brand 7-7-7  | Storrs            |
| 6909               | Old Fox Brand 7-7-7  | Hazardville       |
| 6370               | Old Fox 8-6-2 Turf Food  | Hazardville       |
| 6905 <sup>36</sup> | Old Fox Brand 8-10-10 1.2 mag.   | Hazardville       |
| 6366               | Old Fox Brand 8-16-16  | Hazardville       |
| 6911               | Old Fox Brand 10-6-4   | Hazardville       |
| 6923               | Old Fox Brand 10-6-4   | Hazardville       |
| 6719               | Old Fox 10-6-4 Turf Food 50% of<br>Nitrogen Derived from Urea-Form<br>(75% Organic Nitrogen) | Windsor Locks     |
| 6907               | Old Fox Brand 10-10-10   | Willimantic       |
| 6718               | Old Fox Brand No Pest Turf Food 8-6-2  | Hazardville       |
|                    |  | Willimantic       |
|                    | <u>PERK-UP PRODUCTS CO.</u><br>South Deerfield, Mass.  |                   |
| 6334               | Perk-Up Lawn Food 10-6-4   | Willimantic       |
| 6313               | Perk-Up Plant Food 5-10-5  | Southington       |
|                    | <u>ROBERT B. PETERS CO., INC.</u><br>Allentown, Pa.  |                   |
| 6694               | Peters Carnation Special 25-5-20<br>Fertilizer   | Cromwell          |
| 6692               | Peters General Purpose 20-20-20<br>Fertilizer  | Cromwell          |
| 6693               | Peters Maryland Special 25-10-10<br>Fertilizer   | Cromwell          |
| 6695               | Peters 20-5-30 Fertilizer  | Cromwell          |
|                    | <u>PLANT PRODUCTS CORP.</u><br>Blue Point, L. I., N. Y.                                      |                   |
| 6696 <sup>1</sup>  | Finest Quality Plant Food Water<br>Soluble 32-10-2   | Portland          |

~ Indicates deficiencies

<sup>1</sup> State purchase.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen,<br>per cent |                           |                     |       | Phosphoric acid<br>per cent |       |                          | Potash,<br>per cent |       |
|---------|-----------------------|---------------------------|---------------------|-------|-----------------------------|-------|--------------------------|---------------------|-------|
|         | Ammoniacal            | Water-<br>soluble organic | Water-<br>insoluble | Total | Citrate-<br>insoluble       | Total | So-called<br>"available" | As<br>muriate       | Total |
| 0.76    | 4.96                  | 0.32                      | 0.36                | 6.40  | 0.10                        | 10.80 | 10.70                    | 8.34                | 10.40 |
| 1.04    | 6.08                  | 0.00                      | 0.00                | 7.12  | 0.25                        | 13.77 | 13.52                    | 5.92                | 8.05  |
| 0.60    | 6.08                  | 0.40                      | 0.00                | 7.08  | 0.10                        | 7.12  | 7.02                     | 3.41                | 7.06  |
| 0.46    | 4.40                  | 1.44                      | 1.60                | 7.90  | 0.24                        | 6.90  | 6.66                     | 1.43                | 2.06  |
| 0.76    | 6.88                  | 0.08                      | 0.28                | 8.00  | 0.25                        | 12.00 | 11.75                    | 3.20                | 10.19 |
| 1.86    | 6.00                  | 0.16                      | 0.00                | 8.02  | 0.55                        | 17.50 | 16.95                    | 11.30               | 16.38 |
| 0.94    | 10.00                 | 0.00                      | 0.14                | 11.08 | 0.15                        | 6.88  | 6.73                     | 4.14                | 4.33  |
| 0.64    | 9.60                  | 0.22                      | 0.10                | 10.56 | 0.15                        | 7.00  | 6.85                     | 3.37                | 4.30  |
| 1.44    | 3.28                  | 1.20                      | 4.16                | 10.08 | 0.70                        | 7.05  | 6.35                     | 4.33                | 4.55  |
| 1.38    | 7.68                  | 0.44                      | 0.10                | 2.60  | 0.20                        | 10.88 | 10.68                    | 8.30                | 10.44 |
| 1.04    | 4.24                  | 1.76                      | 0.96                | 8.00  | 0.55                        | 6.85  | 6.30                     | 1.75                | 2.22  |
| 0.00    | 8.24                  | 1.76                      | 0.24                | 10.24 | 0.25                        | 7.75  | 7.50                     | 2.93                | 4.21  |
| 0.00    | 3.76                  | 1.52                      | 0.32                | 5.60  | 0.35                        | 9.90  | 9.55                     | 4.49                | 5.87  |
| 6.40    | 1.92                  | 18.24                     | 0.00                | 26.56 | 0.10                        | 6.47  | 6.37                     | 0.00                | 20.26 |
| 5.60    | 4.08                  | 10.00                     | 0.00                | 19.68 | 0.05                        | 21.65 | 21.60                    | 0.00                | 18.16 |
| 4.00    | 2.54                  | 24.90                     | 0.00                | 31.44 | 0.10                        | 11.12 | 11.02                    | 0.00                | 10.51 |
| 9.36    | 1.28                  | 9.76                      | 0.00                | 20.40 | 0.05                        | 5.42  | 5.37                     | 0.00                | 30.48 |
| 3.44    | 3.68                  | 25.44                     | 0.00                | 32.56 | 0.20                        | 10.20 | 10.00                    | 1.58                | 2.31  |

<sup>35</sup> Magnesium: Guaranteed, 1.20%; found, 1.31%.

<sup>36</sup> Magnesium: Guaranteed, 1.20%; found, 1.87%.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.       | Manufacturer and brand  | Place of Sampling |
|-------------------|---|-------------------|
| 6241              | <u>THE FRANK S. PLATT CO.</u><br>Branford, Conn.<br>Platt's Hi-Organic Lawn Fertilizer<br>10-5-5  | West Haven        |
| 6630 <sup>1</sup> | <u>RA-PID-GRO CORP.</u> , Dansville, N. Y.<br>Ra-Pid-Gro 23-21-17                                 | Middletown        |
| 6653              | <u>RENZULLI BROS. GARDEN CENTER</u><br>Norwalk, Conn.<br>Renzulli Bros. Lawn Food 10-6-4          | Norwalk           |
| 6473              | <u>O. M. SCOTT &amp; SONS CO.</u><br>Marysville, Ohio<br>Dawn 16-11-13                            | Greenwich         |
| 6344              | Turf Builder 20-10-5  | Manchester        |
| 6819              | <u>SEABOARD SEED CO.</u><br>Philadelphia, Pa.<br>Seaboard's Complete Lawn & Plant<br>Food 20-10-5 | North Haven       |
| 6727              | Seaboard's Lawn Feeding Weed Killer 10-6-4  | Norwich           |
| 6768              | <u>SEARS, ROEBUCK &amp; CO.</u><br>Chicago, Ill.<br>Cross Country Economy Fertilizer 5-10-5       | Portland          |
| 6352              | Cross Country Lawn Food 5-5-5   | Manchester        |
| 6248              | Cross Country Lawn Quick Green 10-6-4   | Hamden            |
| 6868              | Cross Country Merion Bluegrass Lawn<br>Food 20-10-5   | New London        |

~~~~~ Indicates deficiencies.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen,<br>per cent |                           |                     |       | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |       |
|---------|-----------------------|---------------------------|---------------------|-------|------------------------------|-------|--------------------------|---------------------|-------|
|         | Ammoniacal            | Water-<br>soluble organic | Water-<br>insoluble | Total | Citrate-<br>insoluble        | Total | So-called<br>"available" | As<br>muriate       | Total |
| 0.16    | 5.12                  | 4.48                      | 1.24                | 11.00 | 0.20                         | 6.27  | 6.07                     | 4.41                | 5.16  |
| 4.28    | 4.32                  | 15.20                     | 0.00                | 23.80 | 0.05                         | 19.20 | 19.15                    |                     | 17.00 |
| 0.62    | 4.96                  | 2.16                      | 2.26                | 10.00 | 0.45                         | 7.42  | 6.97                     | 3.40                | 4.55  |
| 0.00    | 1.28                  | 10.72                     | 4.40                | 16.40 | 0.85                         | 11.80 | 10.95                    | 12.38               | 13.56 |
| 0.38    | 1.20                  | 10.72                     | 8.42                | 20.72 | 0.46                         | 9.82  | 9.36                     | 4.45                | 5.22  |
| 0.00    | 3.52                  | 15.84                     | 1.92                | 21.28 | 0.20                         | 12.02 | 11.82                    | 0.36                | 5.00  |
| 0.26    | 3.60                  | 2.40                      | 3.74                | 10.00 | 0.75                         | 6.75  | 6.00                     | 2.23                | 4.68  |
| 0.00    | 3.68                  | 1.44                      | 0.20                | 5.32  | 0.50                         | 11.50 | 11.00                    | 4.74                | 5.03  |
| 0.36    | 0.36                  | 0.28                      | 4.24                | 5.24  | 1.10                         | 7.50  | 6.40                     | 0.73                | 1.17  |
| 0.14    | 9.52                  | 1.04                      | 0.18                | 10.88 | 0.15                         | 6.85  | 6.70                     | 3.80                | 4.12  |
| 0.76    | 4.80                  | 12.48                     | 3.08                | 21.12 | 0.25                         | 12.12 | 11.87                    | 3.53                | 5.07  |

<sup>1</sup> State purchase.



TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and brand                                            | Place of Sampling |
|-------------|-------------------------------------------------------------------|-------------------|
| 6866        | Cross Country Organic Lawn Food with Crabgrass Plant Killer 5-5-0 | Waterford         |
| 6865        | Cross Country Organic Lawn Food with Weed Killer 5-5-5            | Waterford         |
| 6351        | Cross Country Plant Food 5-10-5                                   | Manchester        |
|             | <u>M. L. SHOEMAKER, DIV. WILSON &amp; CO., Philadelphia, Pa.</u>  |                   |
| 6926        | M. L. Shoemaker's "Swift-Sure" 4-10-0                             | West Suffield     |
|             | <u>THE STANFORD SEED CO.</u><br>Buffalo, N. Y                     |                   |
| 6697        | Stanford Lawn & Plant Food 20-10-5                                | Danielson         |
| 6686        | Stanford Weed & Feed 10-6-4 Plus 1% 2-4, D                        | Danielson         |
|             | <u>STOP &amp; SHOP, INC.</u><br>West Hartford, Conn.              |                   |
| 6337        | Green Carpet Lawn Food 12-5-7                                     | Willimantic       |
| 6336        | Green Carpet Plant Food 8-12-6                                    | Willimantic       |
|             | <u>SWIFT &amp; CO., AGRICHEM DIVISION</u><br>New Haven, Conn.     |                   |
| 6467        | All Purpose Vigoro 6-10-4                                         | Middletown        |
| 6806        | Golden Vigoro Lawn Food 12-5-7                                    | Wethersfield      |
| 6355        | Golden Vigoro Lawn Food with End-O-Pest 12-5-7                    | Manchester        |
| 6820        | Pink Vigoro 8-12-6                                                | Middletown        |

~~~~~ Indicates deficiencies.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen, per cent |                       |                 |       | Phosphoric acid, per cent |       |                       | Potash, per cent |       |
|---------|--------------------|-----------------------|-----------------|-------|---------------------------|-------|-----------------------|------------------|-------|
|         | Ammoniacal         | Water-soluble organic | Water insoluble | Total | Citrate-insoluble         | Total | So-called "available" | As muriate       | Total |
| 0.30    | 0.16               | 0.96                  | 3.86            | 5.28  | 1.30                      | 6.30  | 5.00                  |                  |       |
| 0.30    | 0.24               | 0.40                  | 4.50            | 5.44  | 1.25                      | 5.95  | 4.70                  | 0.57             | 1.30  |
| 1.22    | 4.00               | 0.00                  | 0.30            | 5.52  | 0.45                      | 10.62 | 10.17                 | 5.13             | 5.34  |
|         |                    |                       |                 |       |                           |       |                       |                  |       |
| 0.68    | 2.08               | 0.64                  | 0.72            | 4.12  | 1.80                      | 12.84 | 11.04                 |                  |       |
|         |                    |                       |                 |       |                           |       |                       |                  |       |
| 0.42    | 4.00               | 14.56                 | 0.14            | 19.12 | 0.15                      | 12.52 | 12.37                 | 0.00             | 6.31  |
| 0.00    | 5.52               | 5.86                  | 0.00            | 11.38 | 0.10                      | 7.60  | 7.50                  | 5.95             | 6.86  |
|         |                    |                       |                 |       |                           |       |                       |                  |       |
| 0.54    | 10.40              | 0.80                  | 0.54            | 12.28 | 0.30                      | 5.55  | 5.25                  | 6.16             | 7.06  |
| 1.10    | 5.60               | 0.80                  | 0.58            | 8.08  | 1.20                      | 13.00 | 11.80                 | 5.75             | 6.28  |
|         |                    |                       |                 |       |                           |       |                       |                  |       |
| 0.86    | 4.88               | 0.08                  | 0.18            | 6.00  | 0.27                      | 11.40 | 11.13                 | 3.33             | 4.08  |
| 0.00    | 1.28               | 6.72                  | 4.48            | 12.48 | 0.25                      | 5.57  | 5.32                  | 0.36             | 7.03  |
|         |                    |                       |                 |       |                           |       |                       |                  |       |
| 0.30    | 1.48               | 4.60                  | 6.62            | 13.00 | 0.70                      | 6.15  | 5.45                  | 0.52             | 7.20  |
| 0.58    | 5.68               | 1.04                  | 0.36            | 7.66  | 0.75                      | 11.77 | 11.02                 | 4.18             | 6.01  |

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and brand  | Place of Sampling |
|-------------|---|-------------------|
|             | <u>THOMPSONVILLE GARDEN CENTER</u><br>Thompsonville, Conn.                              |                   |
| 6575        | Thompsonville Garden Center 5-10-5  | Thompsonville     |
| 6574        | Thompsonville Garden Center 20-6-4  | Thompsonville     |
|             | <u>UNEXCELLED CHEMICAL CORP.</u><br><u>BENNETT &amp; CLAYTON DIV.</u><br>Cranbury, N.J. |                   |
| 6842        | General Green 20-10-5   | Stratford         |
| 6838        | Lawn & Garden Food 5-10-5   | Fairfield         |
| 6662        | Lawn & Garden Food 10-6-4   | Fairfield         |
| 6835        | Lawn & Garden Food 10-6-4 (50%<br>Organic Nitrogen)                                     | Fairfield         |
| 6602        | Lawn Life 20-10-5   | Darien            |
| 6747        | New Garden Crest Lawn & Garden<br>Fertilizer 5-10-5                                     | Derby             |
| 6376        | New Garden Crest Lawn & Garden<br>Fertilizer 10-6-4                                     | Thompsonville     |
| 6375        | New Garden Crest Lawn & Garden Ferti-<br>lizer (25% Organic Nitrogen) 10-6-4            | Thompsonville     |
| 6497        | Princeton Park 5-10-5 Lawn & Garden<br>Fertilizer                                       | Old Greenwich     |
|             | <u>UNIVERSAL CHEMICAL CO., INC.</u><br>West Lynn, Mass.                                 |                   |
| 6812        | Electra Plant Food 5-10-3   | Cromwell          |
| 6935        | Electra Plant Food 5-10-3   | Portland          |
|             | <u>VAUGHAN'S SEED CO.</u><br>New York, N.Y.   |                   |
| 6471        | Vaughan's One Shot Lawn Food 20-5-5   | Greenwich         |

~ Indicates deficiencies.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen,<br>per cent |                           |                     |              | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |       |
|---------|-----------------------|---------------------------|---------------------|--------------|------------------------------|-------|--------------------------|---------------------|-------|
|         | Ammoniacal            | Water-<br>soluble organic | Water-<br>insoluble | Total        | Citrate-<br>insoluble        | Total | So-called<br>"available" | As<br>muriate       | Total |
| 1.28    | 3.68                  | 0.16                      | 0.00                | 5.12         | 0.65                         | 11.60 | 10.95                    | 2.84                | 5.22  |
| 1.80    | 4.80                  | 6.88                      | 3.16                | <u>16.64</u> | 1.20                         | 10.10 | 8.90                     | 4.83                | 5.97  |
| 1.96    | 4.96                  | 7.84                      | 5.32                | 20.08        | 0.25                         | 11.77 | 11.52                    | 4.48                | 8.45  |
| 0.94    | 3.84                  | 0.40                      | 0.14                | 5.32         | 0.65                         | 11.35 | 10.70                    | 2.99                | 5.03  |
| 1.28    | 6.56                  | 1.76                      | 0.42                | 10.02        | 0.55                         | 7.70  | 7.15                     | 3.24                | 4.78  |
| 0.34    | 4.74                  | 3.98                      | 0.94                | 10.00        | 0.65                         | 7.70  | 7.05                     | 3.65                | 4.36  |
| 1.88    | 4.80                  | 7.36                      | 5.96                | 20.00        | 0.50                         | 11.80 | 11.30                    | 3.86                | 5.16  |
| 1.14    | 4.40                  | 0.16                      | 0.14                | 5.84         | 0.55                         | 10.75 | 10.20                    | 4.91                | 6.01  |
| 0.72    | 7.40                  | 0.20                      | 0.12                | <u>8.44</u>  | 0.45                         | 8.72  | 8.27                     | 3.88                | 4.59  |
| 1.12    | 3.40                  | 5.08                      | 0.40                | 10.00        | 0.60                         | 6.75  | 6.15                     | 2.96                | 4.75  |
| 0.70    | 4.40                  | 0.64                      | 1.54                | 7.28         | 0.60                         | 10.12 | <u>9.52</u>              | 5.62                | 6.35  |
| 0.22    | 2.40                  | 0.72                      | 2.02                | 5.36         | 0.35                         | 10.52 | 10.17                    | 3.25                | 3.44  |
| 0.50    | 2.48                  | 0.40                      | 1.86                | 5.24         | 0.35                         | 11.80 | 11.45                    | 3.29                | 3.29  |
| 0.60    | 4.16                  | 6.88                      | 8.08                | <u>19.72</u> | 0.20                         | 4.50  | <u>4.30</u>              | 5.25                | 5.22  |

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and brand  | Place of Sampling |
|-------------|---|-------------------|
| 6767        | <u>WALGREN TREE EXPERTS, INC.</u><br>West Hartford, Conn.<br>Walgren Tree Food 8-6-2        | Portland          |
| 6486        | <u>WALKER-GORDON LABORATORY CO.</u><br>Plainsboro, N. J.<br>Bovert 6-4-2                    | Greenwich         |
| 6762        | <u>OSCAR F. WARNER</u> , Waterbury, Conn.<br>Warner's Grubedizer 8-6-4                      | Waterbury         |
| 6763        | Warner's Lawn Food 8-6-4  | Waterbury         |
| 6761        | Warner's Tree Food 12-6-4   | Waterbury         |
| 6667        | <u>WESTERN AUTO SUPPLY CO.</u><br>Kansas City, Mo.<br>Western Auto Revelation 20-10-5       | Bridgeport        |
| 6753        | <u>WHITNEY SEED CO., INC.</u><br>Buffalo, N. Y.<br>Whitney's Vital Brand Lawn Fert. 20-10-5 | New Milford       |
| 6239        | <u>WIRTHMORE STORES, INC.</u><br>Waltham, Mass.<br>Wirthmore 10-5-5 Organo                  | West Haven        |
| 6648        | <u>GARFIELD WILLIAMSON, INC.</u><br>Jersey City, N. J.<br>Wonderlawn Lawn Food 10-6-4       | Bridgeport        |
| 6647        | Wonderlawn Lawn Food Plus Soil Con-<br>ditioner Plus Acid Reducer 10-6-4                    | Bridgeport        |

~~~~~ Indicates deficiencies.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen,<br>per cent |                           |                     |       | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |       |
|---------|-----------------------|---------------------------|---------------------|-------|------------------------------|-------|--------------------------|---------------------|-------|
|         | Ammoniacal            | Water-<br>soluble organic | Water-<br>insoluble | Total | Citrate-<br>insoluble        | Total | So-called<br>"available" | As<br>muriate       | Total |
| 0.20    | 3.84                  | 3.12                      | 0.84                | 8.00  | 0.50                         | 8.25  | 7.75                     | 5.22                | 5.22  |
| 0.28    | 5.68                  | 0.32                      | 0.84                | 7.12  | 0.15                         | 4.75  | 4.60                     | 0.61                | 2.31  |
| 0.00    | 4.40                  | 2.34                      | 1.74                | 8.48  | 0.70                         | 7.55  | 6.85                     | 5.13                | 5.28  |
| 0.68    | 4.48                  | 2.16                      | 0.68                | 8.00  | 0.45                         | 6.57  | 6.12                     | 3.85                | 4.08  |
| 0.00    | 4.48                  | 6.56                      | 1.16                | 12.20 | 0.35                         | 6.50  | 6.15                     | 4.98                | 5.10  |
| 0.48    | 3.04                  | 16.48                     | 0.00                | 20.00 | 0.70                         | 10.70 | 10.00                    | 6.44                | 7.71  |
| 0.00    | 4.64                  | 12.34                     | 3.68                | 20.66 | 0.50                         | 12.00 | 11.50                    | 3.04                | 4.08  |
| 0.20    | 6.08                  | 3.12                      | 1.16                | 10.56 | 0.11                         | 5.67  | 5.56                     | 4.97                | 5.63  |
| 2.68    | 5.84                  | 0.00                      | 1.00                | 2.52  | 0.60                         | 7.70  | 7.10                     | 3.77                | 4.02  |
| 0.48    | 2.24                  | 5.84                      | 1.46                | 10.02 | 0.75                         | 7.75  | 7.00                     | 4.41                | 4.62  |

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and brand                                                            | Place of Sampling |
|-------------|-----------------------------------------------------------------------------------|-------------------|
|             | <u>S. D. WOODRUFF &amp; SONS OF<br/>WETHERSFIELD, INC.</u><br>Wethersfield, Conn. |                   |
| 6283        | Woodruff's Tuf Turf Lawn Fertilizer<br>20-10-5                                    | Hamden            |
| 6680        | Woodruff's Tuf Turf Turf Food<br>10-6-4                                           | North Haven       |
| 6802        | Woodruff's Tuf Turf Two-for-One<br>10-6-4                                         | Wethersfield      |

~~~~~ Indicates deficiencies.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrate | Nitrogen,<br>per cent |                           |                     |       | Phosphoric acid,<br>per cent |             |                          | Potash,<br>per cent |       |
|---------|-----------------------|---------------------------|---------------------|-------|------------------------------|-------------|--------------------------|---------------------|-------|
|         | Ammoniacal            | Water-<br>soluble organic | Water-<br>insoluble | Total | Citrate-<br>insoluble        | Total       | So-called<br>"available" | As<br>muriate       | Total |
| 0.00    | 5.52                  | 12.32                     | 3.44                | 21.28 | 0.21                         | 11.42       | 11.21                    | 4.41                | 5.19  |
| 0.94    | 3.92                  | 4.08                      | 1.10                | 10.04 | 0.50                         | 7.55        | 7.05                     | 4.06                | 5.10  |
| 0.28    | 4.24                  | 4.88                      | 1.80                | 11.20 | 0.30                         | <u>6.04</u> | <u>5.74</u>              | 3.11                | 4.05  |



TABLE 6.  
ANALYSES OF SHEEP MANURE, ETC.

| Station No. | Manufacturer, brand and dealer   |
|-------------|--|
| 6827        | Armour Cattle Manure. Armour Agricultural Chemical Co., Atlanta, Ga. Sampled at G. E. Madison Stores, Southington.                   |
| 6315        | Armour Sheep Manure and Inert Matter. Armour Agricultural Chemical Co., Atlanta, Ga. Sampled at G. E. Madison Stores, Southington.   |
| 6243        | Corenco Sheep Manure with Inert Matter. Consolidated Rendering Co., Boston 10, Mass. Sampled at New Haven Rendering Co., West Haven. |
| 6499        | Davey Shredded Cattle Manure. The Davey Tree Expert Co., Kent, Ohio. Sampled at The Davey Tree Expert Co., Old Greenwich.            |
| 6342        | Fertal-Gro (Dehydrated) Cow Manure. Eastern Dehydrating Co., Lexington, N. C. Sampled at Vittner's Garden Center, Manchester.        |
| 6856        | Hoffman Dehydrated Cow Manure. A. H. Hoffman, Inc., Landisville, Pa. Sampled at Barkers, Inc., Orange.                               |
| 6855        | Hoffman Dehydrated Sheep Manure. A. H. Hoffman, Inc., Landisville, Pa. Sampled at Barkers, Inc., Orange.                             |
| 6649        | H-H Cow Manure. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Willis Distributors, Bridgeport.                          |
| 6774        | H-H Sheep Manure & Inert Matter. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hubbard-Hall Chemical Co., Portland. |
| 6581        | Organure. McNair Farms, Laurinburg, N. C. Sampled at Thompsonville Garden Center, Thompsonville.                                     |

~~~~~ Indicates deficiencies.

TABLE 6.  
ANALYSES OF SHEEP MANURE, ETC.

| Nitrogen, per cent |                  | Phosphoric acid, per cent |             |                  |                             | Potash, per cent |                  | Sand, per cent |
|--------------------|------------------|---------------------------|-------------|------------------|-----------------------------|------------------|------------------|----------------|
| Total found        | Total guaranteed | Citrate-insoluble         | Total found | Total guaranteed | So-called "available" found | Total found      | Total guaranteed |                |
| 1.20               | 2.00             | 0.60                      | 1.60        |                  | 1.00 <sup>1</sup>           | 2.62             | 2.00             | 50.24          |
| 2.40               | 1.25             |                           | 1.52        | 1.00             |                             | 2.56             | 2.00             | 27.58          |
| 1.92               | 1.25             |                           | 1.45        | 1.00             |                             | 2.56             | 2.00             | 18.21          |
| 3.40               | 2.00             |                           | 5.82        | 1.00             |                             | 1.99             | 1.00             | 1.04           |
| 2.04               | 2.00             | 0.07                      | 0.95        |                  | 0.88 <sup>1</sup>           | 9.36             | 7.00             | 4.12           |
| 2.12               | 2.00             | 0.40                      | 2.35        |                  | 1.95 <sup>1</sup>           | 2.53             | 1.00             | 8.69           |
| 2.16               | 1.00             | 0.40                      | 1.65        |                  | 1.25 <sup>1</sup>           | 0.35             | 2.00             | 14.06          |
| 1.72               | 1.50             | 0.40                      | 1.77        |                  | 1.37 <sup>1</sup>           | 3.10             | 1.00             |                |
| 1.64               | 1.25             | 0.45                      | 2.04        |                  | 1.59 <sup>1</sup>           | 3.13             | 1.00             | 17.79          |
| 2.00               | 2.00             | 0.35                      | 1.35        |                  | 1.00 <sup>1</sup>           | 2.62             | 2.00             | 7.85           |

<sup>1</sup> Guaranteed, 1.00%.

TABLE 6.  
ANALYSES OF SHEEP MANURE, ETC.

| Station No. | Manufacturer, brand and dealer                                                                                                |
|-------------|-------------------------------------------------------------------------------------------------------------------------------|
| 6384        | Longhorn Brand Cattle Manure. Natural Plant Food Co., Oklahoma City, Okla. Sampled at Adams-Brainard, Inc., Thompsonville.    |
| 6385        | Ramshorn Brand Sheep Manure. Natural Plant Food Co., Oklahoma City, Okla. Sampled at Adams-Brainard, Inc., Thompsonville.     |
| 6410        | Fertie Cattle Manure Compost. Organic Compost Corp., Germantown, Wis. Sampled at J. M. Fields Dept. Store, E. Hartford.       |
| 6583        | Gardener's Cow Manure Compost. Organic Compost Corp., Oxford, Pa. Sampled at A & P Super Market, Thompsonville.               |
| 6496        | Gardener's Sheep Manure Compost. Organic Compost Corp., Oxford, Pa. Sampled at A & P Food Stores, Old Greenwich.              |
| 6249        | Cross Country Organic Cattle Manure Compost. Sears, Roebuck & Co., Chicago 7, Ill. Sampled at Sears, Roebuck & Co., Hamden.   |
| 6867        | Cross Country Organic Sheep Manure Compost. Sears, Roebuck & Co., Chicago 7, Ill. Sampled at Sears Service Center, Waterford. |
| 6306        | Bovung. Walker-Gordon Laboratory, Plainsboro, N. J. Sampled at The Hugh Reynolds Grain & Feed Co., Inc., New Britain.         |

~ Indicates deficiencies.

<sup>1</sup> Guaranteed, 1.00%.

TABLE 6.  
ANALYSES OF SHEEP MANURE, ETC.

| Total found | Total guaranteed | Phosphoric acid, per cent |             |                  | Potash, per cent            |             | Sand, per cent |                  |
|-------------|------------------|---------------------------|-------------|------------------|-----------------------------|-------------|----------------|------------------|
|             |                  | Citrate-insoluble         | Total found | Total guaranteed | So-called "available" found | Total found |                | Total guaranteed |
| 1.80        | 2.00             | 0.55                      | 1.65        |                  | 1.10 <sup>1</sup>           | 3.23        | 2.00           | 16.14            |
| 2.00        | 2.00             | 0.45                      | 1.75        |                  | 1.30 <sup>1</sup>           | 2.62        | 2.00           | 24.79            |
| 0.92        | 0.50             | 0.45                      | 0.80        |                  | 0.35 <sup>2</sup>           | 0.85        | 0.50           | 38.96            |
| 1.00        | 0.50             |                           | 0.97        | 0.50             |                             | 0.85        | 0.50           | 38.58            |
| 0.88        | 0.50             |                           | 1.02        | 0.50             |                             | 0.82        | 0.50           | 37.04            |
| 0.92        | 0.50             |                           | 0.70        | 0.50             |                             | 0.59        | 0.50           | 40.79            |
| 1.04        | 0.50             | 0.20                      | 1.10        |                  | 0.90 <sup>2</sup>           | 1.70        | 0.50           | 38.54            |
| 2.24        | 2.00             | 0.20                      | 2.02        |                  | 1.82 <sup>1</sup>           | 2.56        | 2.00           | 1.15             |

<sup>2</sup> Guaranteed, 0.50%.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Station No.       | Manufacturer and brand                                                                         | Place of Sampling          |
|-------------------|------------------------------------------------------------------------------------------------|----------------------------|
| 6312              | <u>AGRICULTURAL PRODUCTS CO., INC.</u> , West Kingston, R. I.                                  |                            |
| 6311              | APCO All Purpose Plant Food 5-10-5<br>APCO Special Rose Food 5-12-4                            | New Britain<br>New Britain |
| 6403              | <u>AMERICAN AGRICULTURAL CHEMICAL CO.</u> , New York, N. Y.<br>Agrico Plant Starter 10-40-10   | Rockville                  |
| 6317 <sup>1</sup> | <u>ARMOUR AGRICULTURAL CHEMICAL CO.</u> , Atlanta, Ga.<br>Armour Steamed Bone Meal 2.3-23-0    | Southington                |
| 6590              | Armour Vertagreen All Soluble Plant Starter 10-55-10                                           | East Windsor               |
| 6316              | Armour Vertagreen for Acid-Loving Plants 5-10-10                                               | Southington                |
| 6591              | Armour Vertagreen for Tomatoes 6-12-12                                                         | East Windsor               |
| 6307              | <u>ATLAS FISH FERTILIZER CO.</u> , San Francisco, Cal.<br>Atlas Fish Emulsion Fertilizer 5-1-1 | New Britain                |
| 6821              | <u>BOYLE-MIDWAY, INC.</u> , Cranford, N. J.<br>Heller-Gro Complete Plant Food 15-15-15         | Middletown                 |
| 6398              | <u>CALIFORNIA SPRAY-CHEMICAL CORP.</u> , Richmond, Cal.<br>Orth-Gro Liquid Plant Food 15-5-5   | Manchester                 |

~~~~ Indicates deficiencies.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Nitrate | Nitrogen, per cent |                       |                 |             | Phosphoric acid, per cent |              |                       | Potash, per cent |             |
|---------|--------------------|-----------------------|-----------------|-------------|---------------------------|--------------|-----------------------|------------------|-------------|
|         | Ammoniacal         | Water-soluble organic | Water-insoluble | Total       | Citrate-insoluble         | Total        | So-called "available" | As muriate       | Total       |
| 0.26    | 4.96               | 0.16                  | 0.26            | 5.64        | 0.42                      | 10.50        | 10.08                 | 3.08             | 5.07        |
| 0.00    | 3.76               | 0.30                  | 0.94            | 5.00        | 0.47                      | 14.20        | 13.73                 | 4.50             | 5.10        |
| 2.44    | 7.44               | 0.00                  | 0.00            | <u>9.88</u> | 0.05                      | <u>38.40</u> | <u>38.35</u>          | 0.44             | 10.70       |
|         |                    |                       |                 | 2.76        |                           | 26.40        |                       |                  |             |
| 0.00    | 10.56              | 0.00                  | 0.00            | 10.56       | 0.10                      | 56.60        | 56.50                 |                  | 11.85       |
| 0.36    | 4.04               | 0.36                  | 1.16            | 5.92        | 0.60                      | 9.65         | <u>9.05</u>           | 9.51             | 11.93       |
| 0.34    | 5.36               | 0.24                  | 0.14            | 6.08        | 1.10                      | 14.32        | <u>13.22</u>          | 6.40             | <u>9.72</u> |
| 0.82    | 0.88               | 3.20                  | 0.70            | 5.60        | 0.00                      | 1.00         | 1.00                  | 1.27             | 1.27        |
| 4.72    | 3.68               | 8.00                  | 0.00            | 16.40       | 0.05                      | 17.95        | 17.90                 |                  | 15.72       |
| 0.00    | 0.64               | 14.48                 | 0.00            | 15.12       | 0.00                      | 5.17         | 5.17                  |                  | 6.45        |

<sup>1</sup> Mechanical Analysis: Fine, 64.0%; coarse, 36.0%.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Station No. | Manufacturer and brand   | Place of Sampling |
|-------------|--|-------------------|
|             | <u>CLINTON NURSERIES, Clinton, Conn.</u>                               |                   |
| 6600        | New Era African Violet Food 5-12-9                                     | Stamford          |
| 6488        | New Era All Purpose Plant Food 7-15-8                                  | Greenwich         |
| 6599        | New Era Gro Plant Food Tablets 10-15-12                                | Stamford          |
| 6430        | New Era Liquid Plant Food 8-12-8                                       | West Hartford     |
| 6254        | New Era Rose Food 10-20-10   | Handen            |
|             | <u>CONSOLIDATED RENDERING CO., Boston, Mass.</u>                       |                   |
| 6404        | Corenco Home Garden Fertilizer 5-10-5                                  | Rockville         |
|             | <u>CO-OPERATIVE G. L. F. EXCHANGE, INC., Ithaca, N. Y.</u>             |                   |
| 6760        | Squire Applegate GroLeaf Evergreen Plant Food 8-4-4                    | Torrington        |
| 6393        | Squire Applegate GroLeaf Rose Food 5-10-5                              | Buckland          |
| 6714        | Squire Applegate GroLeaf Steamed Bone Meal 2.3-24-0                    | Putnam            |
| 6390        | Squire Applegate GroLeaf Sulphate of Ammonia 20.5-0-0                  | Buckland          |
|             | <u>E. I. du PONT de NEMOURS &amp; CO., INC., Wilmington, Del.</u>      |                   |
| 6299        | DuPont Rose Food 8-8-8   | Berlin            |
|             | <u>EASTERN STATES FARMERS' EXCHANGE, INC., West Springfield, Mass.</u> |                   |
| 6264        | Eastern States Start-N-Gro 16-32-16                                    | North Haven       |

~~~~~ Indicates deficiencies.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Nitrate | Nitrogen, per cent |                       |                 |             | Phosphoric acid, per cent |       |                       | Potash, per cent |       |
|---------|--------------------|-----------------------|-----------------|-------------|---------------------------|-------|-----------------------|------------------|-------|
|         | Ammoniacal         | Water-soluble organic | Water-insoluble | Total       | Citrate-insoluble         | Total | So-called "available" | As muriate       | Total |
| 2.72    | 3.04               | 0.40                  | 0.00            | 6.24        | 0.15                      | 13.05 | 12.90                 |                  | 10.30 |
| 2.68    | 3.20               | 2.08                  | 0.00            | 7.96        | 0.15                      | 16.40 | 16.25                 |                  | 8.49  |
| 3.96    | 6.16               | 0.24                  | 0.00            | 10.36       | 0.10                      | 17.15 | 17.05                 |                  | 12.90 |
| 0.00    | 4.32               | 4.52                  | 0.00            | 8.84        | 0.00                      | 13.47 | 13.47                 | 6.25             | 8.53  |
| 2.58    | 3.44               | 4.56                  | 0.10            | 10.68       | 0.05                      | 21.10 | 21.05                 |                  | 11.05 |
| 1.40    | 3.60               | 0.16                  | 0.12            | 5.28        | 0.30                      | 10.35 | 10.05                 | 3.49             | 5.00  |
| 1.22    | 3.28               | 0.08                  | 3.42            | 8.00        | 0.10                      | 5.45  | 5.35                  | 4.04             | 4.59  |
| 1.46    | 3.60               | 0.32                  | 0.14            | 5.52        | 0.05                      | 10.05 | 10.00                 | 5.42             | 6.31  |
|         |                    |                       |                 | 2.80        |                           | 26.40 |                       |                  |       |
|         |                    |                       |                 | 21.28       |                           |       |                       |                  |       |
| 0.00    | 0.44               | 1.80                  | 4.88            | <u>7.12</u> | 0.35                      | 8.80  | 8.45                  | 9.36             | 9.36  |
| 6.00    | 9.28               | 1.68                  | 0.00            | 16.96       | 0.05                      | 32.20 | 32.15                 |                  | 16.56 |



TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Station No.       | Manufacturer and brand                                                                                    | Place of Sampling |
|-------------------|-----------------------------------------------------------------------------------------------------------|-------------------|
| 6596              | <u>THE ESPOMA CO.,</u> Millville, N. J.<br>Espoma Organic 3-2-1                                           | Stamford          |
| 6836 <sup>2</sup> | <u>FAESY &amp; BESTHOFF, INC.</u><br>New York, N. Y.<br>F & B Azalea, Camellia, Rhododendron Food 5-10-10 | Fairfield         |
| 6387              | F & B Cottonseed Meal 6-1-1<br><u>FIRST NATIONAL STORES, INC.</u><br>East Hartford, Conn.                 | Thompsonville     |
| 6489              | Emerald Green Evergreen Food 4-10-4                                                                       | Greenwich         |
| 6643              | Emerald Green Plant Food 8-12-6                                                                           | New Britain       |
| 6517              | Emerald Green Rose Food 7-10-5                                                                            | East Hartford     |
| 6586 <sup>3</sup> | <u>GEIGY AGRICULTURAL CHEMICALS</u><br>Ardsley, N. Y.<br>Sequestrene 330 Fe Iron Chelate                  | Thompsonville     |
| 6660 <sup>4</sup> | <u>GOULARD &amp; OLENA, INC.</u><br>Skillman, N. J.<br>G & O Bone Meal 2.4-20-0                           | Norwalk           |
| 6666              | G & O Bulb Food 5-6-15                                                                                    | Fairfield         |
| 6617              | G & O Dried Blood 11-0-0                                                                                  | Darien            |
| 6409              | G & O Evergreen Tree & Shrub Food 9-7-4                                                                   | Rockville         |
| 6659              | G & O Prizegro for Gardens 5-10-5                                                                         | Norwalk           |

~~~~~ Indicates deficiencies.

<sup>2</sup> Iron: Guaranteed, 0.15%; found, 1.30%.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Nitrate | Nitrogen, per cent |                       |                 |       | Phosphoric acid, per cent |       |                       | Potash, per cent |       |
|---------|--------------------|-----------------------|-----------------|-------|---------------------------|-------|-----------------------|------------------|-------|
|         | Ammoniacal         | Water-soluble organic | Water-insoluble | Total | Citrate-insoluble         | Total | So-called "available" | As muriate       | Total |
|         |                    |                       |                 | 4.00  | 0.50                      | 3.95  | 3.45                  | 0.54             | 2.34  |
| 0.84    | 2.24               | 1.06                  | 1.10            | 5.24  | 0.60                      | 11.20 | 10.60                 | 10.51            | 10.51 |
|         |                    |                       |                 | 6.80  | 0.25                      | 2.90  | 2.65                  |                  | 1.99  |
| 0.15    | 2.16               | 1.04                  | 1.09            | 4.44  | 0.40                      | 10.85 | 10.45                 | 3.65             | 4.21  |
| 1.20    | 2.80               | 2.24                  | 0.72            | 6.96  | 0.52                      | 10.77 | 10.25                 | 5.27             | 6.04  |
| 0.14    | 3.84               | 1.68                  | 0.94            | 6.60  | 0.10                      | 8.82  | 8.72                  | 1.41             | 5.44  |
|         |                    |                       |                 |       |                           |       |                       |                  |       |
| 0.72    | 5.04               | 0.32                  | 1.00            | 3.32  |                           | 24.72 |                       |                  |       |
|         |                    |                       |                 | 7.08  | 0.75                      | 9.90  | 9.15                  | 14.83            | 15.18 |
|         |                    |                       |                 | 10.52 |                           |       |                       |                  |       |
| 0.46    | 6.72               | 0.00                  | 1.86            | 9.04  | 0.40                      | 7.90  | 7.50                  | 5.19             | 5.50  |
| 0.86    | 2.80               | 1.52                  | 0.74            | 5.92  | 0.75                      | 11.20 | 10.45                 | 5.37             | 5.60  |

<sup>3</sup> Iron: Guaranteed, 10.00%; found, 10.69%.

<sup>4</sup> Mechanical Analysis: Fine, 85.00%; coarse, 15.00%.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Station No.       | Manufacturer and brand                                     | Place of Sampling |
|-------------------|--|-------------------|
|                   | <u>THE CHARLES C. HART SEED CO.</u><br>Wethersfield, Conn. |                   |
| 6419              | Hart's Rose Food 7-7-7                                     | West Hartford     |
|                   | <u>A. H. HOFFMAN, INC.</u><br>Landisville, Pa.             |                   |
| 6874              | Hoffman Azalea & Evergreen Food<br>4-6-10                  | New London        |
| 6382 <sup>5</sup> | Hoffman Dehydrated Cow Manure 2-1-1                        | Thompsonville     |
| 6253 <sup>6</sup> | Hoffman Dehydrated Sheep Manure 1-1-2                      | Hamden            |
| 6857              | Hoffman Rose Food 5-10-5                                   | Milford           |
| 6823              | Hoffman Sulphate of Ammonia 20-0-0                         | Wallingford       |
|                   | <u>THE HUBBARD-HALL CHEMICAL CO.</u><br>Waterbury, Conn.   |                   |
| 6462 <sup>7</sup> | H-H Aluminum Sulphate                                      | Meriden           |
| 6665              | H-H Bulb Food 7-10-4                                       | Fairfield         |
| 6465 <sup>8</sup> | H-H Cow Manure 1.50-1-1                                    | Meriden           |
| 6463              | H-H Plant Food 5-10-5                                      | Meriden           |
| 6357              | H-H Rose Food 7-10-5                                       | Manchester        |
|                   | <u>HYDROPONIC CHEMICAL CO., INC.</u><br>Copley, Ohio       |                   |
| 6277              | Hyponex 7-6-19 All Purpose Plant<br>Food                   | Cheshire          |
|                   | <u>THE HY-TROUS CORP.</u><br>Boston, Mass.                 |                   |
| 6669              | Hy-Trous Liquid Fertilizer 2-12-4                          | Bridgeport        |
| 6388              | Hy-Trous Liquid Fertilizer 4-8-4                           | Thompsonville     |

~~~~ Indicates deficiencies.

<sup>5</sup> Sand: 22.92%.

<sup>6</sup> Sand: 16.64%.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Nitrate | Nitrogen, per cent |                       |                 |       | Phosphoric acid, per cent |       |                       | Potash, per cent |       |
|---------|--------------------|-----------------------|-----------------|-------|---------------------------|-------|-----------------------|------------------|-------|
|         | Ammoniacal         | Water-soluble organic | Water-insoluble | Total | Citrate-insoluble         | Total | So-called "available" | As muriate       | Total |
| 0.00    | 5.20               | 0.88                  | 1.26            | 7.34  | 0.30                      | 7.55  | 7.25                  | 4.70             | 6.48  |
| 0.40    | 3.12               | 0.48                  | 0.96            | 4.96  | 0.50                      | 11.35 | 10.85                 | 8.69             | 10.63 |
|         |                    |                       |                 | 2.08  | 0.27                      | 1.50  | 1.23                  |                  | 2.62  |
|         |                    |                       |                 | 2.12  | 0.25                      | 1.40  | 1.15                  |                  | 3.34  |
| 0.00    | 3.84               | 0.56                  | 1.50            | 5.90  | 0.20                      | 11.00 | 10.80                 | 3.76             | 5.31  |
|         |                    |                       |                 | 20.80 |                           |       |                       |                  |       |
| 0.50    | 3.28               | 2.88                  | 1.22            | 7.88  | 0.15                      | 11.27 | 11.12                 | 0.77             | 3.73  |
|         |                    |                       |                 | 1.80  | 0.50                      | 1.60  | 1.10                  |                  | 3.38  |
| 0.18    | 2.64               | 1.20                  | 1.30            | 5.32  | 0.70                      | 12.00 | 11.30                 | 5.23             | 5.31  |
| 0.00    | 3.60               | 3.36                  | 1.12            | 8.08  | 0.12                      | 8.80  | 8.68                  | 0.20             | 5.22  |
| 5.52    | 1.52               | 0.00                  | 0.00            | 7.04  | 0.10                      | 7.50  | 7.40                  |                  | 19.65 |
| 0.96    | 1.28               | 0.96                  | 0.00            | 3.20  | 0.00                      | 13.05 | 13.05                 |                  | 5.13  |
| 1.48    | 2.04               | 0.92                  | 0.00            | 4.44  | 0.05                      | 8.48  | 8.43                  |                  | 5.03  |

<sup>7</sup> Aluminum: Guaranteed, 9.00%; found, 9.72%.

<sup>8</sup> Sand: 15.59%.

TABLE 7.  
ANALYSIS OF SMALL PACKAGE FERTILIZERS

| Station No.           | Manufacturer and brand                                                                   | Place of Sampling |
|-----------------------|------------------------------------------------------------------------------------------|-------------------|
|                       | <u>LEBANON CHEMICAL CORP.</u><br>Lebanon, Pa.                                            |                   |
| 6413 <sup>9</sup>     | Lebanon Bone Meal 2.3-15-0                                                               | West Hartford     |
| 6414                  | Lebanon Rose Food 7-7-7                                                                  | West Hartford     |
|                       | <u>MILLER CHEMICAL &amp; FERTILIZER CORP.</u> , Baltimore, Md.                           |                   |
| 6304 <sup>10,11</sup> | Miller Azalea Food 8-8-8                                                                 | Kensington        |
|                       | <u>OLIN MATHIESON CHEMICAL CORP.</u><br><u>FORWARD HOUSE DIVISION</u><br>New York, N. Y. |                   |
| 6252                  | Plantrons Complete Plant Food<br>12-24-12                                                | Hamden            |
|                       | <u>OLD FOX AGRICULTURAL SALES, INC.</u> , East Providence, R. I.                         |                   |
| 6826                  | Old Fox Brand Rose Food 6-10-6                                                           | Plantsville       |
|                       | <u>PARKS-BARNES, INC.</u><br>Hermosa Beach, Cal.                                         |                   |
| 6418                  | Black Magic African Violet Blossom<br>Booster 4-10-10                                    | West Hartford     |
| 6159                  | Black Magic Fish-tilizer Brand 10-5-5                                                    | Bridgeport        |
|                       | <u>PLANTABBS CORP.</u> , Baltimore, Md.                                                  |                   |
| 6597                  | Plantabbs 11-15-20                                                                       | Stamford          |
| 6668                  | Plantabbs Liquid Plant Food 10-10-10                                                     | Bridgeport        |

~ Indicates deficiencies.

<sup>9</sup> Mechanical Analysis: Fine, 59.00%; coarse, 41.00%.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Nitrate | Nitrogen, per cent |                       |                 |              | Phosphoric acid, per cent |               |                       | Potash, per cent |       |
|---------|--------------------|-----------------------|-----------------|--------------|---------------------------|---------------|-----------------------|------------------|-------|
|         | Ammoniacal         | Water-soluble organic | Water-insoluble | Total        | Citrate-insoluble         | Total         | So-called "available" | As muriate       | Total |
| 0.52    | 4.80               | 0.56                  | 1.20            | 2.22<br>7.08 | 9.10<br>0.50              | 26.35<br>7.75 | 17.25<br>7.25         | 7.05             | 7.84  |
| 0.96    | 6.16               | 0.88                  | 0.32            | 8.32         | 0.30                      | 8.97          | 8.67                  | 8.42             | 9.22  |
| 0.00    | 11.36              | 0.50                  | 0.14            | 12.00        | 0.00                      | 25.20         | 25.20                 | 11.38            | 12.31 |
| 0.00    | 5.28               | 0.52                  | 0.88            | 6.68         | 0.40                      | 10.65         | 10.25                 | 5.24             | 6.21  |
| 0.00    | 0.24               | 4.40                  | 0.00            | 4.64         | 0.00                      | 11.03         | 11.03                 |                  | 10.01 |
| 0.00    | 0.00               | 5.00                  | 4.00            | 2.00<br>9.00 | 0.92                      | 9.70          | 8.78                  | 0.29             | 5.44  |
| 7.88    | 3.36               | 0.24                  | 0.00            | 11.48        | 0.15                      | 18.65         | 18.50                 |                  | 27.86 |
| 0.00    | 0.68               | 10.00                 | 0.00            | 10.68        | 0.00                      | 10.80         | 10.80                 |                  | 10.37 |

<sup>10</sup> Magnesium: Guaranteed, 0.12%; found, 0.73%.

<sup>11</sup> Iron: Guaranteed, 0.036%; found, 0.59%.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Station No.        | Manufacturer and brand                                                             | Place of Sampling |
|--------------------|------------------------------------------------------------------------------------|-------------------|
| 6397 <sup>12</sup> | <u>PLANTLAND ON THE PARKWAY</u><br>Manchester, Conn<br>Bone Meal Fertilizer 2-22-0 | Manchester        |
| 6278               | <u>RA-PID-GRO CORP.</u> , Dansville, N. Y.<br>Ra-Pid-Gro 23-21-17                  | Cheshire          |
| 6350               | <u>O. M. SCOTT &amp; SONS CO.</u><br>Marysville, Ohio<br>Scott's Dawn 16-11-13     | Manchester        |
| 6872               | <u>SEARS, ROEBUCK &amp; CO.</u><br>Chicago, Ill.<br>Cross Country Bulb Food 4-12-8 | New London        |
| 6251               | Cross Country Evergreen Food 10-6-4                                                | Hamden            |
| 6426               | Cross Country Plant Food 5-10-5                                                    | West Hartford     |
| 6353               | Cross Country Rose Food 5-10-5                                                     | Manchester        |
| 6281               | <u>STERN'S GARDEN PRODUCTS, INC.</u><br>Geneva, N. Y.<br>Stern's Miracid 30-10-10  | North Haven       |
| 6824               | Stern's Miracle-Gro for Roses 14-28-18                                             | Wallingford       |
| 6411               | Stern's Miracle-Gro Water Soluble<br>Plant Food 15-30-15                           | East Hartford     |
| 6429               | <u>STOCKDALE FERTILIZER CO., INC.</u><br>Morris, Ill.<br>Ovene Sheep Sticks 2-1-2  | West Hartford     |

~~~~~ Indicates deficiencies.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Nitrate | Nitrogen,<br>per cent |                           |                     |       | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |       |
|---------|-----------------------|---------------------------|---------------------|-------|------------------------------|-------|--------------------------|---------------------|-------|
|         | Ammoniacal            | Water-<br>soluble organic | Water-<br>insoluble | Total | Citrate-<br>insoluble        | Total | So-called<br>"available" | As<br>muriate       | Total |
|         |                       |                           |                     | 0.16  |                              | 24.16 |                          |                     |       |
| 5.54    | 3.76                  | 14.38                     | 0.00                | 23.68 | 0.05                         | 18.80 | 18.75                    |                     | 17.60 |
| 0.62    | 1.60                  | 10.24                     | 4.24                | 16.70 | 0.42                         | 12.00 | 11.58                    | 11.20               | 13.50 |
| 0.60    | 3.28                  | 0.40                      | 0.84                | 5.12  | 0.90                         | 12.56 | 11.66                    | 7.22                | 8.25  |
| 0.18    | 5.04                  | 3.12                      | 1.32                | 9.66  | 0.15                         | 6.77  | 6.62                     | 3.64                | 4.15  |
| 1.08    | 4.00                  | 0.40                      | 0.00                | 5.48  | 0.00                         | 10.10 | 10.10                    | 5.17                | 5.66  |
| 0.64    | 4.00                  | 0.48                      | 0.24                | 5.36  | 0.40                         | 10.60 | 10.20                    | 4.09                | 5.34  |
| 0.00    | 3.68                  | 27.52                     | 0.00                | 31.20 | 0.05                         | 10.92 | 10.87                    | 5.44                | 10.08 |
| 2.64    | 6.40                  | 4.96                      | 0.00                | 14.00 | 0.05                         | 28.15 | 28.10                    | 9.77                | 18.80 |
| 0.00    | 7.28                  | 8.16                      | 0.00                | 15.44 | 0.05                         | 31.65 | 31.60                    | 9.31                | 15.18 |
|         |                       |                           |                     | 2.64  | 0.40                         | 3.76  | 3.36                     | 0.85                | 2.18  |

<sup>12</sup> Mechanical Analysis: Fine, 100.00%.



TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Station No.        | Manufacturer and brand  | Place of Sampling |
|--------------------|---|-------------------|
|                    | <u>SWIFT &amp; CO., AGRICULTURAL CHEMICAL DIV., Chicago, Ill.</u> |                   |
| 6356               | Pink Vigoro 8-12-6  | Manchester        |
| 6333               | Vigoro Complete Rose Food 6-10-4                                  | Willimantic       |
| 6298               | Vigoro Evergreen Food 6-7-8                                       | Berlin            |
|                    | <u>SWISS FARMS, INC., Philmont, N. Y.</u>                         |                   |
| 6161               | Plantdrops Liquid African Violet Food 6-18-6                      | Bridgeport        |
| 6585 <sup>13</sup> | Swiss Farms Cow Manure 2-1-1                                      | Thompsonville     |
| 6822               | Swiss Farms Instant Liq. Plant Food 4-6-4                         | Middletown        |
| 6587 <sup>14</sup> | Swiss Farms Steamed Bone Meal 2-20-0                              | Thompsonville     |
|                    | <u>THE TREBOR PLANT &amp; SOIL CO., Hartford, Conn.</u>           |                   |
| 6846               | Magic-Gro 15-10-5 African Violet Food                             | Stratford         |
|                    | <u>WALKER-GORDON LABORATORY CO., Plainsboro, N. J.</u>            |                   |
| 6282 <sup>15</sup> | Bovung 2-1-2  | North Haven       |
|                    | <u>WYATT PRODUCTS, INC., Atlanta, Ga.</u>                         |                   |
| 6873               | Luster Leaf Plant Food 8-8-8                                      | New London        |

~ Indicates deficiencies.

<sup>13</sup> Sand: 6.92%.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Nitrate | Nitrogen, per cent |                       |                 |       | Phosphoric acid, per cent |       |                       | Potash, per cent |       |
|---------|--------------------|-----------------------|-----------------|-------|---------------------------|-------|-----------------------|------------------|-------|
|         | Ammoniacal         | Water-soluble organic | Water-insoluble | Total | Citrate-insoluble         | Total | So-called "available" | As muriate       | Total |
| 0.00    | 5.68               | 2.82                  | 0.20            | 8.60  | 0.20                      | 12.40 | 12.20                 | 5.92             | 8.08  |
| 0.68    | 3.04               | 0.24                  | 1.76            | 5.72  | 0.90                      | 11.80 | 10.90                 | 1.87             | 4.24  |
| 1.16    | 4.48               | 0.40                  | 0.20            | 6.24  | 0.42                      | 7.42  | 7.00                  | 7.22             | 9.14  |
| 0.00    | 0.00               | 0.00                  | 0.00            | 6.00  | 0.00                      | 19.10 | 19.10                 | 4.09             | 6.21  |
|         |                    |                       |                 | 1.68  | 7.25                      | 11.40 | 4.15                  |                  | 1.51  |
| 0.00    | 1.68               | 3.04                  | 0.00            | 4.72  | 0.00                      | 8.75  | 8.75                  | 3.39             | 4.36  |
|         |                    |                       |                 | 2.16  |                           | 28.50 |                       |                  |       |
| 0.24    | 4.48               | 8.48                  | 0.00            | 13.20 | 0.00                      | 9.20  | 9.20                  | 7.14             | 7.50  |
|         |                    |                       |                 |       |                           |       |                       |                  |       |
|         |                    |                       |                 | 1.94  | 0.22                      | 1.75  | 1.53                  |                  | 2.53  |
| 0.16    | 0.48               | 7.60                  | 0.00            | 8.24  | 0.00                      | 8.25  | 8.25                  |                  | 8.29  |

<sup>14</sup> Mechanical Analysis: Fine, 54.00%; coarse, 46.00%.

<sup>15</sup> Sand: 1.59%.

TABLE 8.

## ANALYSES OF OTHER MISCELLANEOUS MATERIALS

(Figures are in per cent)

| Station No. | Material   | Total nitrogen | Total phosphoric acid | Citrate insoluble phosphoric acid | Available <sup>11</sup> phosphoric acid | Water soluble potash | Chlorine | Water | Calcium oxide | Magnesium oxide | Boron |
|-------------|--|----------------|-----------------------|-----------------------------------|---|----------------------|----------|-------|---------------|-----------------|-------|
| 8099        | Clinker from wood-burning furnace                  | 0.00           | 2.90                  |                                   |   | 20.65                |          |       | high          | high            |       |
| 6928        | Cocoa shells                                       | 2.88           | 1.12                  | 0.25                              | 0.87                                    | 4.05                 | 0.00     |       |               |                 |       |
| 5583        | Compost of sludge, horse manure, bedding and humus | 0.88           | 0.42                  |                                   |   | 0.00                 |          | 40.28 |               |                 |       |
| 6063        | Fertilizer <sup>1</sup>                            |                |                       |                                   |   |                      |          |       |               |                 |       |
| 6064        | Fertilizer <sup>2</sup>                            |                |                       |                                   |   |                      |          |       |               |                 |       |
| 6461        | Fertilizer <sup>3</sup>                            | 0.15           | 0.06                  | 0.00                              | 0.06                                    | 0.25                 |          |       |               | high            |       |
| 6262        | Gray Mer-Made Plant Food 5-5-1 <sup>4</sup>        | 5.48           | 4.60                  | 0.05                              | <u>4.55</u>                             | 1.70                 | 1.31     |       |               |                 |       |
| 5196        | Grand limestone                                    |                |                       |                                   |   |                      |          |       | 30.12         | 20.50           |       |
| 6457        | Liquid from dairy barn                             | 0.52           | 0.01                  |                                   |   | 1.01                 | 0.02     |       |               |                 |       |
| 4839        | Limestone <sup>5</sup>                             |                |                       |                                   |   |                      |          |       | 0.00          | 0.00            |       |
| 6207        | Limestone  |                |                       |                                   |   |                      |          |       | 30.22         | 20.25           |       |
| 6208        | Limestone  |                |                       |                                   |   |                      |          |       | 30.56         | 14.49           |       |
| 6209        | Limestone  |                |                       |                                   |   |                      |          |       | 30.62         | 21.40           |       |
| 7080        | Limestone  |                |                       |                                   |   | 0.00                 |          |       | high          | high            |       |
| 6544        | Nitriding salts <sup>6</sup>                       | 15.52          | 0.00                  |                                   |   | 36.16                |          |       | trace         | trace           |       |
| 6160        | Peat <sup>7</sup>                                  |                |                       |                                   |   |                      |          |       |               |                 |       |

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Connecticut Experiment Station

Bulletin 654

|      |  |      |      |      |      |                   |      |       |  |      |                    |
|------|--|------|------|------|------|-------------------|------|-------|--|------|--------------------|
| 8092 | Residue from nitrate of potash solution                      |      |      |      |      | 45.64             |      |       |  |      |                    |
| 5893 | Trap rock dust   | 0.04 | 0.10 |      |      | 0.00 <sup>8</sup> |      |       |  | 2.52 |                    |
| 7088 | Troy Turf  | 2.40 | 4.60 | 0.30 | 4.30 | 1.28              | 0.00 |       |  |      |                    |
| 6713 | 20 Mule Team Fertilizer Borate-46 (Coarse Mesh)              |      |      |      |      |                   |      |       |  |      | 14.70 <sup>9</sup> |
| 7076 | Unknown blue powder  | 8.32 | 5.20 |      |      | 5.28              |      |       |  |      |                    |
| 7122 | Weathered compost of sludge, horse manure, bedding and humus | 0.97 | 0.54 |      |      | 0.18              |      | 43.60 |  |      |                    |

Commercial Fertilizers

~~~~ Indicates deficiencies.

<sup>1</sup> Ammonia nitrogen 0.32 per cent.<sup>2</sup> Ammonia nitrogen 0.00 per cent.<sup>3</sup> Nitrate and ammonia nitrogen 0.00 per cent; soluble organic nitrogen 0.15 per cent. Probably talcum.<sup>4</sup> Nitrate nitrogen 0.00 per cent; ammonia nitrogen 0.56 per cent; soluble organic nitrogen 3.84 per cent; insoluble nitrogen 1.08 per cent.<sup>5</sup> Essentially sand.<sup>6</sup> Nitrate nitrogen 15.36 per cent; ammonia nitrogen 0.16 per cent; sodium high.<sup>7</sup> Trace of gasoline present.<sup>8</sup> Total potash 0.13 per cent.<sup>9</sup> Guaranteed 14.3 per cent.

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