

**PROCEEDINGS**  
 OF THE  
**FLORIDA STATE HORTICUTURAL SOCIETY**


VOL. LVII

PRINTED 1944

# CONTENTS

Officers for 1945 .....	V
Constitution and By-Laws .....	VII
List of Members .....	IX
Fifty-Seventh Annual Meeting — and Editorials .....	XXII
Text of Addresses .....	XXV
President's Annual Address — President Frank M. O'Byrne, Lake Wales, Fla. ....	1
The Role of The Experiment Station in Agricultural Progress, Harold Mowry, Director, Florida Agricultural Experiment, Station, Gainesville, Fla. ....	3
Presentation Complete Set of Proceedings to the Citrus Experiment Station, Miss Clarissa Rolfs, Gainesville, Fla. ....	9
The Proceedings of the Society — A Record of More Than Fifty Years of Progress, Frank Stirling, Ft. Lauderdale, Fla. ....	10
A Special Growers Setup for Irrigation, J. C. Morton, Auburndale, Fla. ....	14
A Water Control Setup for Citrus and Vegetables in the Everglades, Paul Hoenshel, Stuart, Fla. ....	16
Saltiness in Irrigation Wells, T. W. Young, V. C. Jamison, Citrus Experiment Station, Lake Alfred, Fla. ....	18
Twelve Million Farmers Without Social Security Protection, Richard H. Lyle, Social Security Board, Atlanta, Ga. ....	23
The Farmer Goes To Town, John Ford, Florida Farm Bureau, Orlando, Fla. ....	25
Utilization and Disposal of Citrus Processing Residues, R. L. Ingols, U. S. Citrus Products Station, Winter Haven, Fla. ....	28
Trends in the Processing of Florida Citrus Fruits and Their Influence on Returns to Producers, Robert C. Evans, Florida Citrus Commission, Lakeland, Fla. ....	31
Concentration of Citrus Juices By Freezing, A. L. Stahl, Florida Agricultural Experiment Station, Gainesville, Fla. ....	43
Variety Tendencies In Citrus Plantings, W. F. Ward, Avon Park, Fla. ....	46
Investigation on Citrus Fruit Products, M. K. Veldhuis, Citrus Products Station, Winter Haven, Fla. ....	51
Peach Culture In Florida, G. H. Blackmon, Florida Agricultural Experiment Station, Gainesville, Fla. ....	55
The Farm and Grove Machinery Situation, H. G. Clayton, USDA War Board, Gainesville, Fla. ....	58
The Fertilizer and Insecticide Situation for 1944-45, P. H. Groggins, War Food Administration, Washington, D. C. ....	62
A Review of the Labor Situation, A. P. Spencer, Director, Florida Agricultural Extension Service, Gainesville, Fla. ....	67

Activities of the State Plant Board, A. C. Brown, State Plant Board, Gainesville, Fla. ....	72
Packaging Citrus for Our Expeditionary Forces, Earl Newton, War Department, Lakeland, Fla. ....	78
Pulling Versus Clipping of Oranges In Respect of Loss from Stem-End Rot and Blue Mold, E. F. Hopkins, K. W. Loucks, Citrus Experiment Station, Lake Alfred, Fla. ....	80
A Study of Certain Methods for the Control of Stem-End Rot and Blue Mold in Oranges, E. F. Hopkins, K. W. Loucks, C. R. Stearns, Jr., Citrus Experiment Station, Lake Alfred, Fla. ....	87
Progress Report on Purple Mite and Its Control, W. L. Thompson, Citrus Experiment Station, Lake Alfred, Fla. ....	98
Phosphate Response in a Valencia Grove in the Eastern Everglades, J. R. Neller, W. F. Forsee, Jr., Everglades Experiment Station, Belle Glade, Fla. ....	110
Changes in Florida Fruit in Recent Years, L. G. MacDowell, Lakeland, Fla. ....	115
New Possibilities in Agricultural and Horticultural Insecticides, Ralph L. Miller, Orlando, Fla. ....	117
Sourness in Grapefruit in Relation to Seasonal Variations and Nutritional Programs, J. W. Sites, Citrus Experiment Station, Lake Alfred, Fla. ....	122
Soil and Moisture Conservation Studies in Sand Hills Citrus Land, R. E. Witherell, Soil Conservation Service, Haines City, Fla. ....	132
Sources of Magnesium, Howard A. Thullbery, Lake Wales, Fla. ....	135
Effect of Certain Packing House Practices on Decay, Rind Breakdown and Juice Quality of Florida Oranges, J. R. Winston, C. L. Roberts, USDA Division of Fruit and Vegetable Crops and Diseases, Orlando, Fla. ....	140
Studies on the Use of Formaldehyde and Sodium Ortho-Phenyl-Phenate in the Control of Decay in Citrus Fruits, Erston V. Miller, J. R. Winston, G. A. Meckstroth, USDA Division of Fruit and Vegetable Crops and Diseases, Orlando, Fla. ....	144

#### KROME MEMORIAL INSTITUTE

The Goa Bean Deserves Another Trial In Florida, David Fairchild, Coconut Grove, Fla. ....	149
Notes on Some Newer Hard-Drying Vegetable Oils: from Aleurites trisperma Blanco and Garcia nutans Rohr, S. F. Lynch, Subtropical Experiment Station, Homestead, Fla. ....	152
Lychee Progress, Wm. R. Grove, Laurel, Fla. ....	156
Brief Viability of Tropical Seeds, T. B. McClelland, USDA Plant Production Garden, Coconut Grove, Fla. ....	161
Are We Not Going to do Anything About the Giant Fig of the Himalayas? David Fairchild, Coconut Grove, Fla. ....	163
Ginger, A Desirable Home Garden Crop for Florida, G. Weidman Groff, Lingnan Plant Exchange, Laurel, Fla., and S. J. Lynch, Subtropical Experiment Station Homestead, Fla. ....	166
Possibilities in Commercial Growing of Tropical Fruits on the East Coast of Florida, E. V. Faircloth, West Palm Beach, Fla. ....	172
A Key To Florida Mango Varieties, T. T. Sturrock, West Palm Beach, and H. S. Wolfe, University of Florida, Gainesville, Fla. ....	175
Protecting Papaya Plants From Nematodes By the Planting of Crotalaria Spectabilis, Glenn Bates and David Fairchild, Coconut Grove, Fla. ....	181
Third Report of the Avocado Variety Committee, S. J. Lynch, Secretary, Homestead, Fla. ....	182

#### VEGETABLE SECTION

Seeds and Victory, J. J. Rocco, President, Florida Seedsmen, Sanford, Fla. ....	184
---------------------------------------------------------------------------------	-----

An Evaluation of Seed Treatment Materials, A. N. Brooks, Plant Pathologist, Florida Agricultural Experiment Station, Plant City, Fla. ....	186
Seed Problems of the 1943-44 Season, Miss Mildred V. Henry, Seed Analyst, Florida State Department of Agriculture, Tallahassee, Fla. ....	188
Premature Seeding or Bolting of Cabbage, E. N. McCubbin, Horticulturist, Potato Laboratory, Florida Agricultural Experiment Station, Hastings, Fla. ....	191
Protecting Cabbage Plant Beds from Downy Mildew With Spergon, A. H. Eddins, Plant Pathologist, Potato Laboratory, Florida Agricultural Experiment Station, Hastings, Fla. ....	195
The Management of Celery Seed Beds, G. R. Townsend, Plant Pathologist, Florida Agricultural Experiment Station, Belle Glade, Fla. ....	199
New Fungicides for Potatoes and Tomatoes, Geo. D. Ruehle, Plant Pathologist, Florida Agricultural Experiment Station, Homestead, Fla. ....	201
Phomopsis or "Tip-Over" of Eggplant, Phares Decker, Associate Plant Pathologist, Florida Agricultural Experiment Station, Gainesville, Fla. ....	207
DDT, A New Insecticide for Vegetables, J. C. Russell, Assistant Entomologist, Florida Agricultural Experiment Station, Celery Investigations Laboratory, Sanford, Fla. ....	208
A Test of Some Poisons and Their Carriers on Two Destructive Cutworms, E. G. Kelsheimer, Entomologist, Vegetable Crops Laboratory, Florida Agricultural Experiment Station, Bradenton, Fla. ....	211
The Relation of Research to Vegetable Production in Florida, H. W. Schneck, Sales Manager, The Kilgore Seed Co., Plant City, Fla. ....	215
Growing Vegetables at Ruskin, Paul Dickman, Ruskin, Fla. ....	219
Vegetable Production at Zellwood, R. S. Dowdell, Orlando, Fla. ....	221
Price Ceilings, E. W. Lins, South Miami, Fla. ....	224
Laber and Material Requirements for Florida Vegetable Crops, J. Wayne Reitz, Professor of Agricultural Economics, University of Florida, Gainesville, Fla. ....	227
Motion and Time Studies of Farm Labor, Max E. Brunk, Assistant Agricultural Economist, Florida Agricultural Experiment Station, Gainesville, Fla. ....	230
The Significance of the Soil Nitrate Test for Cabbage, G. M. Volk, Florida Agricultural Experiment Station, Gainesville, Fla. ....	232
Recent Work on Cabbage at the U. S. Regional Vegetable Breeding Laboratory, C. F. Poole, Cytologist, Charleston, S. C. ....	236
Variation in the Composition of Vegetables Grown in Different Areas of the State, Byron E. Janes, Associate Horticulturist, and Jean Campbell, Laboratory Assistant, Florida Agricultural Experiment Station, Gainesville, Fla. ....	238
Factors Affecting the Quality of Florida Dehydrated Vegetables, Arthur L. Stahl, Associate Horticulturist, Florida Agricultural Experiment Station, Gainesville, Fla. ....	241
New Varieties of Vegetables, E. C. Minnum, Assistant Truck Horticulturist, Florida Agricultural Experiment Station, Belle Glade, Fla. ....	245

#### ANNUAL REPORTS

Deceased Members .....	248
Report of Necrology Committee .....	249
Report of Secretary .....	251
Report of Treasurer .....	251
Report of Auditing Committee .....	253
Report of Executive Committee .....	253
Report of Nominating Committee and Election of Officers .....	255
Selection of Meeting Place .....	255
Final Resolutions .....	255b