## **PROCEEDINGS**

## OF THE

## FLORIDA STATE HORTICULTURAL SOCIETY, 1947

VOLUME LX PRINTED 1948 CONTENTS Officers for 1948 ..... V Constitution ..... VII List of Members ..... IX Text of Addresses ..... XXVPresident's Annual Address, Frank M. O'Byrne, Lake Wales ........ 1 The Relation Between the Horticulturist and His Banker, T. G. Mixson, Pres. First National Bank, St. Petersburg, Florida ..... 4 Graduate Work In Horticulture, H. S. Wolfe, Department of Horticulture, Gainesville, Florida ..... 6 CITRUS SECTION A Preliminary Report of Work at Campinas, Brazil, on Tristeza Disease of Citrus, C. W. Bennett, Principal Pathologist, Division of Fruit and Vegetable Crops and Diseases, Bureau of Plant Industry, Soils, and Agricultural Engineering, Agricultural Research Administration, U. S. Department of Agriculture, and A. S. Costa, Ing. Agronomo, Instituto Agronomico, Campinas, Brazil ..... 11 Spreading Decline of Citrus, R. F. Suit, Citrus Experiment Station Lake Alfred ..... 17 The Citrus Situation, H. G. Hamilton, Professor of Marketing, University of Florida, Gainesville .....  $^{24}$ Experiments on Production of Feed Yeast From Citrus, M. K. Veldhuis and W. O. Gordon, U. S. Citrus Products Laboratory, Winter Haven .... 32 Bacteriological Survey of Some Citrus Canneries in Fla., Roger Patrick, U. S. Citrus Products Laboratory, Winter Haven ..... 36

Storage Studies on Frozen Citrus Concentrates, R. H. Cotton, W. R. Roy,	
C. H. Brokaw, O. R. McDuff, and A. L. Schroeder, National Research Corporation, Cambridge, Massachusetts	39
Report on Citrus Beverage Base Research, C. C. Beisel and O. R. McDuff, Research Fellows, Florida Citrus Commission, University of Florida Citrus Experiment Station, Lake Alfred, Fla	50
Internal Fruit Quality as Related to Production Practices, John W. Sites, Citrus Experiment Station, Lake Alfred	55
Vitamin C Content and Juice Quality of Exposed and Shaded Citrus Fruits, J. R. Winston, Senior Horticulturist, U. S. Agricultural Field, Laboratory, Orlando	63
2-Amino-Pyridine, A Promising Inhibitor of Decay in Oranges, J. R. Winston, Senior Horticulturist, U. S. Agricultural Field Laboratory, Orlando	68
Prevention of Entrance of Insects, Pests and Diseases from Foreign Countries, Arthur C. Brown, Plant Commissioner, State Plant Board, Gainesville	77
Grasshopper Control in Citrus Groves in Florida, James T. Griffiths, Jr., John R. King, W. L. Thompson, Citrus Experiment Station, Lake Alfred	80
New Insecticides and Their Application on Citrus, W. L. Thompson and J. T. Griffiths, Citrus Experiment Station, Lake Alfred	86
Count Odette Phillippi—A Correction to Florida's Citrus History, T. Ralph Robinson, Terra Ceia	90
Spraying Grapes for Disease Control in Florida, G. K. Parris and L. H. Stover, Watermelon and Grape Investigations Laboratory, Leesburg.	93
VEGETABLE SECTION	
New Vegetable Varieties for Florida, David G. A. Kelbert, Associate Horti- culturist Vegetable Crops Laboratory Florida Agricultural Experiment	97
Station, Bradenton	100
Preparation of Produce for Prepackaging, M. A. Slade, Jr., Research Department Food Machinery Corporation, Lakeland	104
Merchandising of Pre-Packaged Foods, Virgil G. Morgan, St. Petersburg	107
Chemical Control of Weeds in Vegetable Seedbeds, Donald S. Burgis, Florida Agricultural Experiment Stations Vegetable Crops Laboratory, Bradenton	111
Observations of Certain Factors Governing Efficacy of Soil Fumigants, Jack M. Bickerton, Walker Fertilizer Company, Orlando	114

FLORIDA STATE HORTICULTURAL SOCIETY, 1947	xxIII
Wireworm Control Studies on the Lower Southeastern Florida Coast, 1946-47, D. O. Wolfenbarger, Florida Agricultural Experiment Station, Sub- Tropical Experiment Station, Homestead	116
The Use of Some Organic Insecticides in the Control of Earworms Attacking Sweet Corn, E. G. Kelsheimer, Florida Agricultural Experiment Station, Vegetable Crops Laboratory, Bradenton	121
New Fungicides, A. H. Eddins, Florida Agricultural Experiment Station, Potato Investigations Laboratory, Hastings	124
Present Status of the Mosaic Disease of Vegetable Crops in South Florida, W. D. Moore, D. L. Stoddard, and C. B. Savage	128
Control of Celery Diseases, A. A. Foster, Florida Agricultural Experiment Stations, Central Florida Experiment Station, Sanford	131
Value of Rapid Soil Tests in Determining Fertilizer Needs, Ernest L. Spencer, Florida Agricultural Experiment Stations, Vegetable Crops Laboratory, Bradenton	134
Effect of Soil on the Mineral Composition of Commercially Grown Vegetables, G. M. Volk and G. T. Sims, Florida Agricultural Experiment Station, Gainesville	138
A Fertility Experiment With Tomatoes on Immokalee Sand in St. Lucie County, W. T. Forsee, Jr., and N. C. Hayslip, Florida Agricultural Experiment Stations, Everglades Experiment Station, Belle Glade	142
Watermelon Disease Control, G. K. Parris, Florida Agricultural Experiment Station, Watermelon and Grape Investigations Laboratory, Leesburg	147
An Evaluation of Tomato Production Problems in the St. Lucie-Martin County Area, Norman C. Hayslip and W. T. Forsee, Jr., Florida Agricultural Experiment Stations, Everglades Experiment Station, Belle Glade	151
Irrigation Studies With Sweet Corn, Cabbage and Snap Beans at Gainesville, V. F. Nettles, F. S. Jamison and B. E. Janes, Florida Agricultural Experiment Stations, Gainesville	155
Sweet Corn in the Sanford Area, R. W. Ruprecht, Vice-President in Charge, Central Florida Experiment Station, Sanford	161
Growers Problems in Growing and Marketing Iceberg Lettuce, John Tiedtke, Clewiston	163
KDOME MEMORIAL INCREMENT	
KROME MEMORIAL INSTITUTE	
Notes on Some Guava Insects, D. O. Wolfenbarger, Sub-Tropical Experiment Station, Homestead	167

Further Studies of Floral Induction in the Haden Mango (Mangifera Indica L.), Philip C. Reece, J. R. Furr, and W. C. Cooper, U. S. Department of Agriculture, Agricultural Research Administration, Bureau of Plant	
Industry, Soils, and Agricultural Engineering, Orlando	171
Early Experiences with the Chayote, David Fairchild, Coconut Grove	172
Research in Tropical Horticulture at the University of Miami, Arthur L. Stahl, S. J. Lynch, Margaret J. Mustard, University of Miami, Coral Gables	178
Notes on the Propagation of the Sympodial or Clump Type of Bamboos, Milton Cobin, Fairchild Tropical Garden, Coconut Grove	181
Wrapping Air-Layers With Rubber Plastic, Wm. R. Grove, Lychee Orchards, Laurel	184
Report of Sub-Tropical Committee, Geo. D. Ruehle, Sub-Tropical Experiment Station, Homestead	188
ORNAMENTAL SECTION	
Problems in Gladiolus Production, Robert O. Magie, Pathologist, Gladiolus Investigations, Vegetable Crops Laboratory, Florida Agricultural Experiment Station, Bradenton	197
Deficiencies in Ornamentals, R. D. Dickey, Florida Agricultural Experiment Station, Gainesville	199
Diseases of Ornamentals, Erdman West, Botanist and Mycologist, Florida Agricultural Experiment Station, Gainesville	204
Bulbous Plants Adapted to Florida, Wyndham Hayward, Winter Park	205
The Disease Factor in Easter Lily Bulb Production in Florida, Howard B. Johnson, Sebring	211
New Developments in Insecticides and Application Equipment, John T. Creighton, Head Department of Entomology, University of Florida, Gainesville	212
Flowering Tropical Trees—A Planting Program for Florida, Edwin A. Menninger, "The Flowering Tree Man," Stuart	217
ANNUAL REPORTS	
Accountant, Report of	225
Treasurer, Report of	227
Resolutions Committee, Report of	231
Necrology Committee, Report of	234