

*Proceedings*  
**of the**  
**FLORIDA STATE**  
*Horticultural Society*  
**2001**

Volume CXIV

Printed May 2002

CONTENTS

Board of Directors for 2001 .....	ii
Board of Directors for 2002 .....	iii
Presidential Address, Frederick S. Davies .....	vi
Awards of Honorary Membership .....	x
Awards of The Society .....	xii
List of Presidents, Honorary Members: 1888 to Present .....	xiii
Endowment Contributions .....	xiv
By-Laws .....	347
Minutes of the Board of Directors meetings, 2000.....	351
Minutes, 2000 Annual Meeting .....	353
Robert Showalter (1916-2000) .....	355
Manuscript Preparation Guide for Authors.....	356
List of Available Proceedings .....	359
Conversion Table: U.S. & Metric Measures .....	360
Membership List.....	361
Index .....	369

KROME MEMORIAL SECTION

Integrating Fruit Trees and Other Non-native Plants with Native Plants in the Southern Florida Home Garden.....	1
Evaluation of 'Oro' and 'Trompo' Canistel ( <i>Pouteria campechiana</i> Baehni) at the University of Florida Tropical Research and Education Center, Homestead.....	3
Evaluation of Fruit from a Green Sapote ( <i>Calocarpum viride</i> Pitt.) Selection at the University of Florida Tropical Research and Education Center, Homestead.....	5
Phytophthora Root Rot-resistant Avocado Rootstocks for Southern Florida: Selection of Open-pollinated Seedling Progeny.....	6
Publicly Funded Promotional Programs for Fruit and Vegetable Commodities: A National Survey of State Departments of Agriculture	11
Relationship Between Florida Freeze Incidence and Sea Surface Temperature in the Tropical Pacific.....	19
Simulated Drip Irrigation with Different Soil Types .....	22
Market Windows for Florida Blueberries .....	24
Timing and Concentration of Hydrogen Cyanamide Sprays Affect Bud Development, Flower Mortality, and Hasten Fruit Maturity of Blueberry.....	27
Characteristics of Plums from the University of Florida Breeding Program.....	30
Low Chill Peach and Nectarine Cultivars from the University of Florida Breeding Program: 50 Years of Progress .....	33
Assessment of Moderate-chill Peach Cultivars for the Southeastern Lower Coastal Plain .....	37

Raising Muscadine Grapes with Growth Tubes.....	41
Influence of Spur Quality on Productivity and Fruit Quality in Muscadine Grapes .....	43

CITRUS SECTION

Update on Petroleum Spray Oil for Citrus Rust Mite Control .....	46
Fipronil Toxicity to <i>Diaprepes abbreviatus</i> L. (Coleoptera: Curculionidae) Larvae .....	52
Response of Citrus Rootstock Seedlings to <i>Diaprepes abbreviatus</i> L. (Coleoptera: Curculionidae) Larval Feeding .....	57
Iridovirus Infection and Topical Application in Whitefly.....	64
CTV Decline Source Budwood Can be Detected by Grafting .....	67
Iridovirus Infection and Vertical Transmission in Citrus Aphids .....	70
A Comparison of Five Sour Orange Rootstocks and their Response to Citrus Tristeza Virus.....	73
Spectral Reflectance of Citrus Canker .....	77
Salinity Effect on Seedling Emergence, Nitrogen and Chloride Concentrations, and Growth of Citrus Rootstocks .....	79
Foliar Nutrient Sprays Influence Yield and Size of 'Valencia' Orange	83
Frequent Fertigation does not Affect Citrus Tree Growth, Fruit Yield, Nitrogen Uptake, and Leaching Losses.....	88
Response of Citrus to Silicon Soil Amendments .....	94
Wastewater and Reclaimed Water—Disposal Problem or Potential Resource?.....	97
Residual Effects of Micromite (Diflufenzuron) Treated Citrus Leaves on Eggs Deposited By <i>Diaprepes Abbreviatus</i> .....	101
Normalizing In Vitro Development of Sweet Orange Somatic Embryos using Semi-permeable Membranes .....	107
Spray Variable Effects on Deposition and Harvesting Efficacy of CMN-pyrazole.....	111
Gibberellic Acid Wash-off Studies on 'Hamlin' Orange .....	118
Budunion Incompatibilities and Associated Declines Observed in Florida among Trees on Swingle Citrumelo and other Trifoliolate Orange-related Rootstocks .....	121
Low Production of Ambersweet Orange in Florida Related to Poor Pollen Production and Germination.....	127
Different Adjuvant Types and Glyphosate Efficacy on Some Weeds ....	132
Hurricane Management Planning for Florida Citrus Groves .....	135

HANDLING & PROCESSING SECTION

A Nondestructive Method for Measuring Firmness of Blueberry Fruit	138
Characterization of Fresh Tomato Aroma Volatiles Using GC-Olfactometry.....	142
Scheduling Tomato Fruit Ripening with 1-Methylcyclopropene.....	145
Immersion in Heated Water Doesn't Soften Ripening Tomatoes .....	148
Respiratory Activity and Browning of Minimally Processed Sweetpotatoes.....	150
Volatile Components in Banana ( <i>Musa acuminata</i> colla cv. Cavendish) and Yellow Passion Fruit ( <i>Passiflora edulis</i> Sims f. <i>flavicarpa</i> Degner) as Determined by GC-MS and GC-Olfactometry.....	153
The Comparison of an Electronic Nose and Gas Chromatograph for Differentiating NFC Orange Juices.....	158
Fresh-cut Sweetcorn Kernels.....	160
Postharvest Factors Influencing Stem-end Rind Breakdown (Serb) of 'Valencia' Oranges.....	164
Ethanol Content of 'Murcott' Tangerines Harvested at Different Times and Treated with Coatings of Different O <sub>2</sub> Permeability .....	170

Microflorae of Orange Surfaces and Juice from Fruit in Processing Facilities: Preliminary Results .....	174	Stratification Unnecessary for Germination of Seeds of Stokes Aster [ <i>Stokesia laevis</i> (J. Hill) Greene] .....	250
Effects of Moderate Shade on Citrus Leaf Gas Exchange, Fruit Yield, and Quality .....	177	Culture and Production of Pickerelweed Using Three Different Substrates .....	252
Evaluation of Refrigerated Conditions and Fruit Quality in Cooling Fresh Florida Citrus .....	181	Turf Response to Coated-urea Fertilizers .....	254
GARDEN & LANDSCAPE SECTION		VEGETABLE SECTION	
Florida House Annual Survey Shows Changes in Landscape Practices	186	The Potential for Use of Biologically-based Disease Management Products in Florida Vegetable Production .....	263
Florida House Children's Resource Conservation Tour Program .....	188	Effect of Metam Sodium and Methyl Bromide on Rootknot nematode, Yellow Nutsedge, and Damp-off on Cucumber cv. Dasher II	266
Northeast Florida Yards, Neighborhoods and Ponds: Protecting Florida's Natural Resources through Environmentally-friendly Landscaping and Lawncare .....	190	Yellow Nutsedge Interference Effects on Fruit Weight of Polyethylene-mulched Bell Pepper .....	268
Drought-tolerant, Low-maintenance Plants for Southern 'Florida Yards' and 'Florida Landscapes' .....	192	Competition of Smooth ( <i>Amaranthus hybridus</i> ) and Livid ( <i>A. lividus</i> ) Amaranth with Cucumber ( <i>Cucumis sativus</i> ) .....	272
The Landscape Game: Teaching Environmentally Friendly Landscape Design Principles to Homeowners .....	194	Influence of the Biostimulant Folcysteine on the Interference of Purple Nutsedge ( <i>Cyperus rotundus</i> L.) with Eggplant ( <i>Solanum melongena</i> L.) .....	275
Florida-friendly Landscape Tips: An Interactive Touch-screen Information Kiosk .....	196	The Rise and Fall of the Florida Celery Industry 1895-1995.....	278
"Quercus Asphaltus" or Growing 31 Varieties of Potted Oak Trees in My Miami Warehouse Parking Lot! .....	198	A Decade of Change in Florida's Greenhouse Vegetable Industry: 1991-2001 .....	280
Evaluation of Thirty Daffodils for use in Central Florida .....	201	Competitiveness of the Spanish and Dutch Greenhouse Industries with the Florida Fresh Vegetable Industry .....	283
IPM as a Pest Management Strategy for Landscape Plants .....	203	Hydroponically produced 'Galia' muskmelon—What's the secret?.....	288
Effect of Flooding and Fertilizer on Growth of Seedlings of Pond Apple .....	205	Improving Lettuce Transplant Quality in Response to Nitrogen Nutrition in a Floatation Production System .....	294
2000-2001 Winter Overseed Trials on Fairway and Putting Green Bermudagrass.....	209	Performance of Greenhouse Tomato Cultivars Grown in Soilless Culture in North Central Florida.....	303
Restoration of Anniversary Island's Native Ecosystem .....	217	Monitoring Growth and Development of Carrot on Organic Soils in Florida.....	307
The Evolution of Production, Harvesting, and Marketing Techniques for Radishes from Stephen's Produce "Garden Fresh" Vegetables at Local Green Markets in Palm Beach County, Florida .....	219	Muskmelon Fruit Response to K Source and Method of Application .	312
The Evolution of Production, Harvesting, and Marketing Techniques for Bok Choy Chinese Cabbage from Stephen's Produce "Garden Fresh" Vegetables at Local Green Markets in Palm Beach County, Florida .....	224	Interactions Between Nitrogen Rates and Cultivar on the Yield of Strawberry .....	315
"Creating Your Florida Yard": A Horticulture Course for Home Owners	231	Sulfur Fertilization for Polyethylene-mulched Cabbage .....	318
ORNAMENTAL SECTION		Resistance to Gas Diffusion Through the Seedcoat and Hilum of Watermelon ( <i>Citrullus lanatus</i> Matsum & Nakai).....	323
Challenges in Academic Advisement for Horticultural Students at the University of Florida's Satellite Campuses.....	234	Response of 'Florida 47' Tomato to Seed and Foliar Applications of 'Silk' Biostimulant.....	326
Seed Pathology of Native Scrub Grasses .....	236	Performance of Sweet Corn Varieties on Muck Soil .....	329
Downey Mildew of <i>Salvia splendens</i> Caused by <i>Peronospora lamii</i> .....	237	Greenhouse Production of Several Fresh-cut Herbs in Vertical Hydroponic Systems in North Central Florida .....	332
Host Suitability of Some Vinca and Salvia Cultivars to Two Isolates of Root-knot Nematodes.....	239	Calabaza Yield and Size at Two Spacings When Grown on Various Plastic Mulches as a Second Crop.....	335
Growth Control of <i>Salvia</i> × 'Indigo Spires' by Photosensitive Plastic Films .....	241	Seasonal Abundance and Distribution of <i>Thrips palmi</i> Karny (Thysanoptera: Thripidae) in Southern Florida .....	337
Introducing a Multi-cavity Collection Method for Extracting Plug Root-zone Solutions.....	243	Evaluation of <i>In Situ</i> N Mineralization of Composted Organic Wastes Applied to Sandy Soil.....	342
Awn Removal of Native Scrub Grasses .....	245		
Assessment of Germination, Nutrient Uptake and Photosynthetic Efficiency for Evaluating the Potential Invasiveness of <i>Ruellia Brittoniana</i> .....	247		