

*Proceedings*  
of the  
**FLORIDA STATE**  
*Horticultural Society*  
**1993**

Volume CVI

Printed May 1994

CONTENTS

Officers for 1993 .....	II
Officers for 1994 .....	III
List of Past Presidents, 1888 to Present .....	IV
List of Honorary Members .....	IV
Presidential Address, Michael O. Taylor .....	IX
Principal Address, Michael J. Stuart .....	X
Award of Honorary Membership .....	XIII
Presidential Gold Medal Award .....	XIV
Awards for Outstanding Papers .....	XIV
Council Memorial Tomato Research Award .....	XIV
President's Industry Award .....	XIV
Graduate Student Awards .....	XIV
U.S.-Metric Conversion Table .....	XVI
Editorial Policy .....	XVI

CITRUS SECTION

A Comparison of Controlled-Release to Conventional Fertilizer on Mature 'Marsh' Grapefruit, Brian J. Boman .....	1
Evaluation of a Resin Coated Nitrogen Fertilizer for Young Citrus Trees on a Deep Sand, A. K. Alva and D. P. H. Tucker .....	4
The Influence of Cultivar and High Nitrogen and Potassium Fertilization on Fruit Quality Traits of Young Orange Trees, C. J. Hearn .....	8
First-Year Response of 'Ruby Red' Grapefruit on Four Rootstocks to Fertilization and Salinity, Brian J. Boman .....	12
Effects of Salinity and Calcium on Seedling Emergence, Growth, and Sodium and Chloride Concentrations of Citrus Rootstocks, Mongi Zekri .....	18
Use of Reclaimed Water for Irrigation and Fertigation of Young 'Redblush' Grapefruit Trees, Michael A. Maurer and Frederick S. Davies .....	22
A Reclaimed Water Citrus Irrigation Project, Mongi Zekri and Robert C. J. Koo .....	30
Effects of Three Water Sources on the Incidence of Rio Grande Gummosis in Grapefruit Groves, L. W. Russo, H. K. Wutscher and F. W. Bistline .....	35
Effects of Microsprinkler Precipitation Rate, Soil Type, and Water Depletion on Depth of Soil Wetting, Larry R. Parsons, K. T. Morgan and T. Adair Wheaton .....	38
Toxicity of Imidacloprid to Selected Arthropods in the Citrus Greenhouse and Grove, R. C. Bullock and R. R. Pelosi .....	42

Control of the Citrus Leafminer in South Florida, Jorge E. Peña and R. Duncan .....	47
Rootstock Shoot Contributions to Scion Growth of Containerized Citrus Nursery Trees, Jeffrey G. Williamson and Brian E. Maust .....	52
Juice Quality from Young Trees of 6 Valencia Clones on 16 Rootstocks in the Immokalee Foundation Grove, Robert E. Rouse and Charles O. Youtsey .....	55
In-Vitro Micropropagation of Seedless 'Cohen' Citrange, J. W. Grosser, J. L. Chandler, R. R. Pelosi and M. Cohen .....	57
Respiration Differences of Citrus Rootstock Feeder Roots, H. K. Wutscher, R. E. McDonald, and G. Yelenosky .....	60
Effect of Soil Temperature and Forcing Method on Scion Bud-break and Growth of Citrus Nursery Trees, Ali Al-Jaleel and Jeffrey G. Williamson .....	62
Evaporation and Wind: Friend or Foe in Cold Protection, J. David Martsof .....	65
The 1992 Statewide Citrus Management Survey, J. J. Ferguson and C. L. Taylor .....	70
International Research Linkages Benefit Florida Citrus Industry, Walter J. Kender .....	75
Impact of Commercial Plant Disease Laboratories on the Florida Citrus Industry, Thomas A. Permar .....	79
Potential Mitigation of the Threat of the Brown Citrus Aphid, <i>Toxoptera citricida</i> (Kirkaldy), by Integrated Pest Management, R. K. Yokomi, Y. Q. Tang, L. Nong and M. L. Kok-Yokomi ..	81
Potential for Spread of Citrus Tristeza Virus and its Vector, the Brown Citrus Aphid, Tim R. Gottwald, Stephen M. Garnsey and Raymond K. Yokomi .....	85
Occurrence of Severe Strains of Citrus Tristeza Virus and Citrus Blight in Registered Scion Groves in the Indian River, R. F. Lee, K. S. Derrick, P. McClure, L. Ellis and P. Rucks .....	94
Progress on the Characterization and Control of Citrus Tristeza Virus, C. L. Niblett, H. R. Pappu, S. S. Pappu, V. J. Febres, K. L. Manjunath, R. F. Lee, J. W. Grosser and J. Schell .....	99
Postbloom Fruit Drop of Citrus—Symptoms, Disease Cycle and Control, L. W. Timmer .....	102
An Update on Postbloom Fruit Drop in the Indian River Area and Results of a Fungicide Test on the Disease, R. M. Sonoda .....	105
An Update on the Incidence of Postbloom Fruit Drop on 'Tahiti' Limes in South Florida, R. T. McMillan, Jr. ....	108

KROME MEMORIAL INSTITUTE SECTION

Selected Household Socioeconomic Characteristics and Wine Consumption in Florida, Stephen Leong and Carlos Ramirez .....	111
Impact of Hurricane "Andrew" on Tropical Fruit Acreage in Dade County, Robert R. Terry .....	116
'Solo' Sunrise Papaya as Host of the Caribbean Fruit Fly, <i>Anastrepha suspensa</i> (Loew), Under Field and Laboratory Conditions, Ru Nguyen, Steve Gillis and Don Harris .....	118
A Comparison of Three Formulations of Captan Fungicide for Disease Control and Effect on Mortality of Predatory Mites on Strawberry, Timothy E. Crocker, Craig K. Chandler, Jim Price and Alicia J. Whidden .....	120
Introgression of Seedlessness from Bunch Grapes into Muscadine Grapes, Jiang Lu, Lloyd Schell and Sola Lamikanra .....	122
Sucrose, Abscisic Acid and Methylglyoxal Bis-(Guanylhydrazone) Affect Grape Somatic Embryogenesis, Michael E. Compton and D. J. Gray .....	124
Organogenesis in Tissue Cultures of <i>Avverrhoa carambola</i> L. 'Arkin', John L. Griffis, Jr. and Richard E. Litz .....	128

Storage Characteristics of 'Fuyu' Persimmons, Steven A. Sargent, Tim E. Crocker and Judith J. Zoellner .....	131	Pole Bean Yield as Influenced by Composted Yard Waste Soil Amendments, S. R. Kostewicz .....	206
Feijoa History and Improvement, R. H. Sharpe, W. B. Sherman and E. P. Miller .....	134	Municipal Solid Waste (MSW) Soil Amendments: Influence on Growth and Yield of Snap Beans, M. Ozores-Hampton and H. H. Bryan .....	208
Effect of Hurricane Andrew on Tropical Fruit Trees, Jonathan H. Crane, Richard J. Campbell and Carlos F. Balerdi .....	139	Surface vs. Subsurface Drip Irrigation of Tomatoes on a Sandy Soil, G. A. Clark, C. D. Stanley and D. N. Maynard .....	210
Is It Time to Develop a New System for Growing Strawberries in Florida?, C. K. Chandler, E. E. Albrechts and T. E. Crocker ....	144	Drip Irrigation Energy Efficiency for Tomato Production in North Florida, A. G. Smajstrla, B. F. Castro and R. J. Musgrove .....	213
Reoccurrence of Papaya Mosaic Potexvirus in Florida, R. T. McMillan, Jr., Paula Tennant and Dennis Gonsalves .....	146	Pan Evaporation Scheduling for Drip-Irrigation of Tomato, Salvatore J. Locascio and Allen G. Smajstrla .....	216
Water Use and Irrigation Scheduling of Young Blueberries, R. T. Pritchard, D. Z. Haman, A. G. Smajstrla and P. M. Lyrene ....	147	Telogia Creek Irrigation Energy Conservation Demonstration on Mulched Staked Tomatoes, Ben F. Castro, Bobby R. Durden, Steve M. Olson and Fred M. Rhoads .....	219
VEGETABLE SECTION		Potential for Commercial Production of Tomatillo in Florida, D. N. Maynard .....	223
Preintroduction Performance of Tomato Breeding Lines, J. W. Scott, S. M. Olson, D. O. Chellemi, J. P. Jones, J. B. Jones and G. C. Somodi .....	151	Effectiveness of Different Insecticides for the Control of Sweetpotato Whitefly, <i>Bemisia tabaci</i> (Gennadius) (Homoptera: Aleyrodidae), on Vegetable Crops in Southern Florida, Dakshina R. Seal .....	224
Identifying Polyploids of Various Cucurbits by Stomatal Guard Cell Chloroplast Number, Fred McCuiston and Gary W. Elmstrom .....	155	Effectiveness of Insecticides in Controlling <i>Thrips palmi</i> Karny (Thysanoptera: Thripidae) on Different Vegetable Crops in South Florida, Dakshina R. Seal, Richard M. Baranowski and Joseph D. Bishop .....	228
Preliminary Determination of Parameters to Develop an Objective Procedure for Assessing Tipburn in Lettuce, M. L. Stratton and R. T. Nagata .....	157	HANDLING AND PROCESSING SECTION	
The Effect of Selected Copper Bactericides on Population Dynamics of <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> on Tomato Leaflets, J. B. Jones, J. P. Jones and S. S. Woltz .....	160	Quality of Cold-Treated 'Arkin' Carambola Coated with Wax or Plastic Film, William R. Miller, R. E. McDonald and Lucie Austin Grant .....	234
Improving Yield of Cucumbers in Nematode-Infested Soil by Double-Cropping with a Resistant Tomato Cultivar, Using Transplants and Nematicides, H. Y. Hanna, P. D. Colyer, T. L. Kirkpatrick, D. J. Romaine and P. R. Vernon .....	163	Citrus Fruit with Single or Layered Coatings Compared with Packinghouse-Coated Fruit, Robert D. Hagenmaier and Robert A. Baker .....	238
Management of Insect Pests of Squash, Susan E. Webb .....	165	Possible Quarantine Treatments for Florida Agricultural Food Commodities, Guy J. Hallman and Debra S. Chalot .....	240
Chemical Control of the Twospotted Spider Mite, <i>Tetranychus urticae</i> Koch (Acari: Tetranychidae), in Strawberries, James F. Price .....	168	Color and Cloud Stability Improvement of Carrot Juice, C. A. Sims, M. O. Balaban and R. F. Matthews .....	243
Influence of Soil pH, Nitrogen Source, and Transplant Drenches on Development of Crown Rot of Tomato, John Paul Jones, J. B. Jones, S. S. Woltz and J. W. Scott .....	170	Evaluation of Sizer Technologies for Florida Citrus, W. M. Miller .	246
Effect of Transplant Tray Type and Tomato Cultivar on the Incidence of Fusarium Crown and Root Rot in Tomato Transplants, R. J. McGovern, C. S. Vavrina and L. A. McKay .....	173	Design and Development of a Portable Forced-Air Cooler, Michael T. Talbot and James H. Fletcher .....	249
Non-Cultural Factors Affecting Dade County Vegetable Production after Hurricane Andrew, Mary Lamberts and Herbert Bryan .....	175	Studies on Onion Seed Aging, Yasseen Mohamed-Yasseen .....	255
Priming 'Solarset' Tomato Seeds to Improve Germination at High Temperature, D. J. Cantliffe and Y. Abebe .....	177	Simultaneous Distillation-Solvent Extraction of Orange Juice Volatiles, R. F. Matthews and P. F. West .....	258
Evaluation of Controlled-Release Urea for Fresh-Market Tomato, A. A. Csziznszky, C. D. Stanley and G. A. Clark .....	183	Evaluation of a Portable Sphere Spectrophotometer for the Measurement of Orange Juice Color, Béla S. Buslig .....	262
Slow Release Fertilizer Rates for Strawberry Fruit Production, Earl E. Albrechts and Craig K. Chandler .....	187	Calcium-Mediated Postharvest Changes in Storageability and Fruit Quality of Peaches, Charles O. Ochei, Fouad M. Basiouny and Floyd M. Woods .....	266
Fertilization Demonstrations for the Tri-County Potato Production Area of Northeast Florida, G. Hochmuth, E. Hanlon, G. Kidder, D. Hensel, W. Tilton, J. Dilbeck and D. Schrader .....	190	ORNAMENTAL SECTION	
Carrot and Sweet Corn Yields When Fertilized According to Soil Test Results, G. S. Crnko, A. Ferrer, E. A. Hanlon, C. A. Neal, and J. M. White .....	199	Simulating Irrigation Requirements of an Ornamental Fern, A. G. Smajstrla and R. H. Stamps .....	270
An Opinion on the Gradient Concept of Nutrition, C. M. Geraldson and Blake Whisenant .....	201	Relationship of Potential Evapotranspiration and Actual Evapotranspiration of <i>Rhododendron</i> sp. 'Formosa', Richard C. Beeson, Jr. ....	274
Water Use and Nitrogen Balance for Subirrigated Fresh-Market Bell Pepper Production, C. D. Stanley and G. A. Clark .....	202	Energy Requirements for Florida Ornamentals Production, Richard C. Fluck, C. Direlle Baird and Balwinder S. Panesar .	276
Carrot Variety Production on a Sandy Soil Using Reclaimed Water and Drip Irrigation, J. M. White .....	205	Algae Control in an Ebb and Flow Irrigation System, A. R. Chase and C. A. Conover .....	280

Effect of Growth Regulators on Leaf Development of Caladium, S. E. Nixon and G. J. Wilfret .....	283	Effectiveness of Several Mulching Methods on Yields of Organically Grown Cabbage and Okra, S. R. Kostewicz and J. M. Stephens .....	316
Shading and Pot Color Influence Growth and Flowering of Strawberry Firetails, Sven E. Svenson .....	286	Development of a Master Composter Curriculum for Extension Educators, George E. Fitzpatrick, Mary Lamberts, Sydney G. Park-Brown, Steve Ritter and Alice Rosenberger .....	318
Photoperiod Affects Meristem Development of <i>Liatris spicata</i> 'Calilepsis,' Michael R. Evans .....	288	The Central Florida Research and Education Center's "Master Researcher" Program, C. A. Conover, A. R. Chase, R. W. Henley, J. J. Haydu, R. J. Henny, L. S. Osborne, R. H. Stamps, D. J. Gray and J. M. White .....	320
Field Phenology of Red Ginger, <i>Alpinia purpurata</i> , James D. Hansen .	290	Evaluation of Seed Geranium Cultivars for the Landscape, T. K. Howe and W. E. Waters .....	323
Preemergent Control of <i>Phyllanthus tenellus</i> and <i>Phyllanthus urinaria</i> , Jeffrey G. Norcini and James H. Aldrich .....	292	Paclobutrazol-Induced Dwarfing of 'Valencia' Orange Trees, G. Yelenosky, C. V. J. Vu and M. G. Bausher .....	329
Comparative Effect of Growth Regulators on Poinsettia, G. J. Wilfret	294	Culture of Banana-Lilies, David L. Sutton .....	332
Media Lime Rate and Pruning Affect Leaf Mottling of <i>Epipremnum aureum</i> 'Marble Queen', Robert J. Steinkamp .....	297	Promoting the Rapid Germination of Needle Palm Seed, William J. Carpenter, Eric R. Ostmark and Kathleen C. Ruppert .....	336
Production Fertilizer and Postharvest Light Intensity Effects on Begonias, C. A. Conover, L. N. Satterthwaite and K. G. Steinkamp .....	299	The Black Olive ( <i>Bucida buceras</i> L.), A Tropical Timber Tree, Has Many Faults as an Ornamental, Julia F. Morton .....	338
Evaluation of a Yard Waste Compost as a Potting Medium Amendment for Production of Potted <i>Ageratum</i> , T. J. MacCubbin and R. W. Henley .....	302	Nephthytis Cultivars to Know and Grow, R. W. Henley and C. A. Robinson .....	343
<b>GARDEN AND LANDSCAPE SECTION</b>			
The Relandscaping of South Dade County Following Hurricane Andrew, Steve Ritter .....	306	-----	
Impact of Hurricane Andrew on Ornamental Nursery Profitability in Dade County, Florida, DeArmand L. Hull and Alan W. Hodges .....	307	Sponsored Student Program .....	348
Co-Composting of Landscape and Vegetable Wastes at Institutions with Food Service Facilities, Gary H. Brinen and Roger A. Nordstedt .....	312	By-Laws .....	352
Waste Stream Reduction Through On-Site Grass Clipping Recycling, M. LaRue Robinson, Ursula E. Schultz and Rebecca Stone	314	Report of the Executive Committee .....	356
		Membership List .....	358
		Index .....	370
		Available Proceedings .....	381