

Proceedings
of the
FLORIDA STATE
Horticultural Society
1989

Volume CII

Printed May 1990

CONTENTS

Officers for 1989	II
Officers for 1990	III
Presidential Gold Medal Award	VII
Awards for Outstanding Papers	VII
Council Memorial Tomato Research Award	VII
Graduate Student Award	VII
Presidents of the Florida State Horticultural Society	VIII
List of Honorary Members	VIII
Honorary Membership Awards	IX
Presidential Address, William H. Krome	XI
Principal Address, G. L. Zachariah	XII
Available Proceedings	XV

CITRUS SECTION

Variation in the Severity of Citrus Tristeza Virus Isolates from Groves with Quick Decline, R. F. Lee and R. H. Brlansky	1
Effect of Removal of Persistent Calyxes from Navel Orange Trees Affected by Postbloom Fruit Drop, S. H. Futch, J. W. Hebb, and R. M. Sonoda	4
Phytophthora Feeder Root Rot of Bearing Citrus: Fungicide Effects on Soil Populations of <i>Phytophthora parasitica</i> and Citrus Tree Productivity, L. W. Timmer, H. A. Sandler, J. H. Graham and S. E. Zitko	5
Interaction of Fosetyl-Aluminum Fungicide and Copper Fungicides on Citrus Fruit and Foliage, R. M. Sonoda, M. Vathakos and R. R. Pelosi	10
Comparison of Various Spray Oils for Controlling Greasy Spot on Grapefruit Leaves and Fruit, J. O. Whiteside	13
Effectiveness of Fungicide Supplements to Spray Oil for Improving Greasy Spot Control on Grapefruit Leaves and Fruit, J. O. Whiteside	16
Efficacy of Specific Formulations of Cupric Hydroxide Fungicides for Control of Citrus Melanose and Greasy Spot, R. R. Johnson and H. R. O'Neal	20
Relationship Between Xylem-Limited Bacteria and Citrus Blight, D. L. Hopkins, C. M. Thompson, F. W. Bistline and L. W. Russo	21
Long-Term Patterns of Water Uptake in Syringe Injection and Wood Zinc Levels of Blight-Affected Orange Trees, Heinz K. Wutscher	24
Economic Comparison of Southern and Northern Citrus Production in Florida, Stephen A. Ford, Ronald P. Muraro and Gary F. Fairchild	27

Deposition of Different Spray Volumes on Citrus Trees, M. Salyani and C. W. McCoy	32
Spray Volume and Acaricide Rate Effects on the Control of the Citrus Rust Mite, Clayton W. McCoy, Ben Huai Lye and Masoud Salyani	36
Split Aldicarb Application for Pest Suppression on Navel Orange Trees in Florida, R. C. Bullock	41
Dicofol: The Influence of Application Method on Snow Scale Population and Sex Ratio, A. C. White and T. J. Stelter	44
Enhancement of Citrus Red Mite <i>Panonychus citri</i> (McGregor) Control Through the Use of Triton CS-7, W. J. Bourgeois and A. J. Adams	46
Comparison of Two Methods of Estimating Potential Citrus Evapotranspiration, T. A. Obreza and D. J. Pitts	48
Citrus Irrigation With Reclaimed Municipal Wastewater, Robert C. J. Koo and Mongi Zekri	52
Microsprinkler Irrigation Scheduling and Pattern Effects on Growth of Young 'Hamlin' Orange Trees, Thomas E. Marler and Frederick S. Davies	57
Salinity in Florida Citrus Production, J. P. Syvertsen, Brian Boman and D. P. H. Tucker	61
Heated Irrigation Cold Protection, J. David Martsof	64
Tensiometers for Irrigation Scheduling in a Florida Citrus Grove, Jack Creighton, David A. Sleeper and Calvin Hubbard	69
The Texas Citrus Industry—1989, Julian W. Sauls and Robert E. Rouse	72
Yield and Fruit Quality of 'Ambersweet' Orange Hybrid on Different Rootstocks, C. Jack Hearn	75
A Survey of Florida Citrus Nurseries, Jeffrey G. Williamson and Willian S. Castle	78
Relationship Between Tree Counts and Citrus Grove Production, C. H. Blazquez, Ben Abbitt, David Hitchcock and Roger Judy .	82

GARDEN AND LANDSCAPE SECTION

Profitability Enhancement of Local and Regional Trade Shows, W. L. Schall	85
Major Issues Confronting the Florida Ornamental Industry, Alan Hodges and John Haydu	86
Ornamental Plant Growth Responses to Different Application Rates of Reclaimed Water, John R. Parnell	89
Azaleas and Reclaimed Water, M Larue Robinson and John R. Parnell	92
Leu Gardens: Past, Present and Future, G. Paul	95
Pansy Cultivar Evaluation in the Landscape, T. K. Howe and W. E. Waters	97
The Mexican Washington Palm is not an Asset in Florida Landscaping, Julia F. Morton	101
Potassium Deficiency in South Florida Ornamentals, Timothy K. Broschat	106
Mushroom Compost as a Soil Amendment for Vegetable Gardens, J. M. Stephens, G. C. Henry, B. F. Castro and D. L. Bennett .	108
Correlation of Visual Ratings With Quantitative Measurements of Weed Control During Containerized Landscape Plant Production, Robert H. Stamps and Catherine A. Neal	112
Marketing Landscape Maintenance Through a Services Directory, Michael J. Holsinger	113
Description and Characteristics of the Landscape Maintenance Industry in Florida, Michael J. Holsinger, Cliff Taylor and J. Walter Prevatt	114

Mahogany Webworm: Damage Evaluation and Control in Nurseries and Landscape Areas, F. W. Howard	116	Performance of Non-Astringent Persimmons (<i>Diospyros kaki</i> L.) in Florida, E. P. Miller	199
Evaluation of Selected Ornamental Figs for Interior Use, R. W. Henley and R. T. Poole	119	'Homestead', a Superior Guava for Fresh Market and for Processing, Carl W. Campbell	202
Vines for South Florida Gardens, Derek Burch and A. A. Will, Jr.	123	Survey of Southern Highbush and Rabbiteye Blueberries in Florida, T. E. Crocker and L. Willis	204
Challenges Facing the Sod Production Industry, John J. Haydu, John L. Cisar and Karen E. Williams	125	Comparison of Pine Bark Mulch and Polypropylene Fabric Ground Cover in Blueberries, David E. Norden	206
Comparison of Overseeded Grasses for Putting Greens, A. E. Dudeck and L. B. McCarty	127	The Florida Climate as it Relates to Blueberry Production, P. M. Lyrene	208
DRIS Evaluation of the Nutrient Status of Bahia and St. Augustine Turfgrasses, G. H. Snyder, C. A. Sanchez and J. S. Alrichs	133	Guava and Passionfruit as Commercial Crops in Florida, Matt J. Murray and Craig A. Campbell	212
Turfgrass Proving Grounds, Philip Busey	137	Sources, Pricing Policies and Likelihood of Sale of Muscadine Grapes in Supermarkets in Florida, Stephen Leong	214
Exceptional Flowering Perennials for Central Florida, Sydney Park Brown	141	Evaluation of Wine Potential from Breeding Lines and Cultivars in Florida, Charles A. Sims and John Mortensen	217
Landscaping to Conserve Energy, R. J. Black and A. W. Meerow	142	In Vitro Micropropagation and Plant Establishment of 'Blanc du Bois' Grape, D. J. Gray and C. M. Klein	221
Effects of Injected and Surface Fertility on Hibiscus Growth in Bare Ground, Mulch and Turf, Edward F. Gilman	144	Yields and Other Characteristics of Muscadine Grape Cultivars at Leesburg, J. A. Mortensen and J. W. Harris	223
HANDLING AND PROCESSING SECTION			
Membrane Concentration of Orange Juice, Stephen Cross	146	Effect of Irrigation on Leaf Water Potential, Growth and Yield of Mango Trees, Kirk D. Larson, Bruce Schaffer and Frederick S. Davies	226
Effects of Temperature on Pulp Removal from Orange Juice by Centrifugation, S. M. Barros	152	Leaf Gas Exchange Characteristics of Eleven Species of Fruit Crops in North Florida, P. C. Andersen	229
Quality of Carambolas Subjected to Hot Water Immersion Quarantine Treatment, Guy J. Hallman	155	Performance of Clonal Avocado Rootstocks in Dade County, Florida, Randy C. Ploetz, José L. Ramos, Jorge L. Parrado, Bruce Schaffer and S. Pablo Lara	234
Preliminary Investigation Using Hot Air to Disinfest Grapefruit of Caribbean Fruit Fly Immatures, Jennifer L. Sharp	157	Flooding Tolerance of 'Golden Star' Carambola Trees, M. E. B. Joyner and Bruce Schaffer	236
Detection, Quarantine, and Eradication of Fruit Flies Invading Florida, Richard A. Clark and Howard V. Weems, Jr.	159	Acreage and Plant Densities of Commercial Carambola, Mamey Sapote, Lychee, Longan, Sugar Apple, Atemoya, and Passion Fruit Plantings in South Florida, Jonathan H. Crane	239
Control of Temperature and Relative Humidity in Van Containers of Potted Areca Palms in Export Shipments to Europe, L. A. Risse, R. E. McDonald and A. J. Bongers	164	Peel Disorders of Florida Citrus as Related to Growing Area and Color-Add Formulations, David J. Hall and Michael D. Bowers	243
Refrigerated Vacuum Packaging of Carambola Slices, R. F. Matthews, J. A. Lindsay, P. F. West and A. Leinart	166	"The Guide": An Industry Response to New Regulations, Mary Lamberts, Gabriele Marewski, Ronalene H. Monteith and Mitch Rabin	246
Evaluation of Commercial Precooling for Sweet Corn, Michael T. Talbot, Steven A. Sargent, Jeffrey K. Brecht and Lawrence A. Risse	169	Role of Arthropods in the Transmission of Postbloom Fruit Drop, J. E. Peña and R. Duncan	249
Storability of California and Florida Crisphead Lettuce, II. Fungicide Treatments, D. D. Gull, J. K. Brecht, L. E. Datnoff, R. N. Raid and V. L. Guzman	175	ORNAMENTAL SECTION	
Resistance of Different Strains of <i>Penicillium digitatum</i> to Imazalil Treatment in California Citrus Packinghouses, B. Dave', M. Sales and M. Walia	178	Temperature and Desiccation Effect on Seed Germination of <i>Coccolrhinix argentata</i> , William J. Carpenter and Eric R. Ostmark .	252
Reduction in Sodium Ortho-Phenylphenate Concentration on Citrus by Controlling pH, J. L. Kelly, R. N. Ryno and S. Bowers .	179	Vegetative Propagation of Florida Native Plants: III. Shrubs, B. Dehgan, M. Gooch, F. Almira and M. Kane	254
Effectiveness of Aerosol Fungicide Applications in the Degreening Room for Control of Citrus Fruit Decay, G. Eldon Brown and John O. Craig	181	Vegetative Propagation of Florida Native Plants: IV. <i>Quercus</i> Spp. (Oaks), B. Dehgan, F. Almira, M. Gooch and T. Sheehan	260
Measuring Air Exchange Rates for Citrus Degreening Rooms, W. M. Miller	185	In Vitro Propagation of Florida Native Plants: <i>Styrax americana</i> and <i>Persea palustris</i> , M. E. Kane, T. J. Sheehan, B. Dehgan and N. L. Philman	264
Pesticide Residues in Food, Aaron W. Welch, Jr.	187	Response of <i>Ligustrum</i> and Azalea to Surface and Growth Medium-Incorporated Fertilizer Applications, Thomas H. Yeager, DeWayne L. Ingram and Claudia A. Larsen	269
Condition of Waxed or Film-Wrapped 'Minneola' Tangelos After Storage, William R. Miller and Roy E. McDonald	190	Effects of Fertilizer and Irrigation Rates on Maintenance of <i>Ficus benjamina</i> and <i>Ficus retusa</i> 'Nitida' in an Interior Environment, C. A. Conover and R. T. Poole	272
KROME MEMORIAL INSTITUTE			
Low-Chill Peaches in South Texas and Potential in Central Florida, Robert E. Rouse and Wayne B. Sherman	193	Bio-stimulant and High Fertilizer Rates Do Not Affect Leatherleaf Fern Frond Development, Yield or Vase Life, Robert H. Stamps	274
Location Influences on Fruit Traits of Low-Chill Peaches in Australia, B. L. Topp and W. B. Sherman	195	Chrysanthemum Cultivars Evaluated as Center-Disbudded, Gary J. Wilfret	277

Production of Foliage Begonias for the Interiorscape Market, R. T. Poole and R. W. Henley	280	Phytotoxicity of Foliar Application of Cinmethylin to Pepper, James P. Gilreath, Phyllis R. Gilreath and John A. Cornell	336
Evaluation of <i>Magnolia grandiflora</i> 'Glen St. Mary' for Use in Interior Environments, Chris A. Martin and Dewayne L. Ingram	282	Effect of Adjuvant on Nightshade Control With Paraquat and Di-quat, James P. Gilreath and Phyllis R. Gilreath	338
Cultural Practices Influence Yield and Incidence of Non-Flowering <i>Gypsophila</i> , B. K. Harbauch, V. F. Cooper and T. A. Nell ..	284	Management of High pH Histosols for Lettuce Production, C. A. Sanchez, H. W. Burdine, V. L. Guzman and R. B. Beverly	341
Growth of Dieffenbachia and Gardenia in Various Potting Ingredients, R. T. Poole and C. A. Conover	286	Acidification of an Everglades Histosol Using Several Fertilizer Sources, J. M. Lockhart and C. A. Sanchez	344
Long-Term Effect of Uniconazole on Growth of Woody Landscape Plants, Jeffrey G. Norcini and Gary W. Knox	289	Nitrogen Nutrition of Cabbage Seedlings Grown in a Pine Bark Medium in Polystyrene Trays, G. J. Wright and I. E. Smith ...	346
Sprangletop Control in St. Augustine Sod Production, G. J. Cash-ion, J. P. Gilreath and G. K. England	291	Effect of Controlled (Slow) Release Nitrogen Sources on Tomato, <i>Lycopersicon esculentum</i> Mill. cv. Solar Set, A. A. Csizinszky	348
Insecticidal Control of Magnolia White Scale and Long-Tailed Mealybug on Sago-Palms, F. W. Howard	293	Field Evaluations of Nitrogen Fertilization Programs for Subsur-face-Irrigated Tomatoes, George Hochmuth, Ed Hanlon, Phyllis Gilreath and Ken Shuler	351
Resident Instruction in Horticulture for Place-Bound Students, Stephen D. Verkade and George E. Fitzpatrick	295	Recolonization of Fumigated Tomato Production Soil in Dade County by <i>Pythium</i> Spp., Randy C. Ploetz and Leslie Stempel	354
Commercial Foliage Plants: Twenty Years of Change, Dennis B. McConnell, Richard W. Henley and Catherine B. Kelly	297	Fusarium Wilt of Tomato in Florida Before and After an Over-seasoning Period, John Paul Jones, J. W. Scott and J. P. Crill	358
VEGETABLE SECTION		Evaluation of Fungicides for Control of Early Blight in Florida Celery Production, R. N. Raid	360
Influence of Lateral Tubing Location and Number on Growth and Yield of Tomatoes with Micro Irrigation, D. J. Pitts, C. E. Arnold and J. M. Grimm	304	Efficacy of Fosetyl-Aluminum Foliar Applications in Controlling Downy Mildew of Lettuce, R. N. Raid and L. E. Datnoff	362
Drip Irrigated Tomato as Affected by Water Quantity and N and K Application Timing, Salvatore J. Locascio and Allen G. Smajstrla	307	Postharvest Treatment of Florida Fresh Market Tomatoes with Fungicidal Wax to Reduce Decay, David J. Hall	365
Influence of Propagation Site on the Fruiting of Three Strawberry Clones Grown in a Florida Winter Production System, C. K. Chandler, E. E. Albrechts, C. M. Howard and Adam Dale	310	Food Baits for Pre-Plant Sampling of Wireworms (Coleoptera:Elateridae) in Potato Fields in Southern Florida, Richard K. Jansson, Scott H. Lecrone and Dakshina R. Seal	367
Evaluation of Triploid Watermelon Cultivars in Central and Southwest Florida, Donald N. Maynard and Gary W. Elmstrom	313	Biology and Management of Corn-Silk Fly, <i>Euxesta stigmatis</i> Loew (Diptera: Otitidae), on Sweet Corn in Southern Florida, D. R. Seal and R. K. Jansson	370
Seed Treatments to Improve Rate and Uniformity of Celery Seed Germination, I. Tanne and D. J. Cantliffe	319	Suppression of the Sweetpotato Whitefly on Commercial Fresh Market Tomatoes, D. J. Schuster, P. H. Everett, J. F. Price and J. B. Kring	374
Slicing Cucumber Cultivar Trial, Fall, 1988, Robert C. Hochmuth and George J. Hochmuth	322	-----	
Pruning Method Effects on Yield, Fruit Size, and Percentage of Marketable Fruit of 'Sunny' and 'Solar Set' Tomatoes, S. M. Olson	324	Sponsored Student Program	380
Double-Cropping Cucumber and Tomatoes to Minimize the Cost of Staking Cucumber, H. Y. Hanna, A. J. Adams and R. J. Edling	326	Constitution	384
Preemergence and Postemergence Weed Control in Snap Beans, W. M. Stall, S. J. Locascio and R. C. Hochmuth	329	By-Laws	384
Watermelon Production as Influenced by Herbicide Combination and Cultivation, S. J. Locascio, W. M. Stall, S. M. Olson and C. S. Vavrina	332	Report of Executive Committee, 1989	386
		Membership List	388
		Index	400
		U.S.-Metric Conversion Table	Inside Back Cover
		Editorial Policy	Inside Back Cover