

PROCEEDINGS OF



**RESEARCH
CONFERENCE**

Forty-First Annual Report

1996

Compiled and Edited by
BRYSON L. JAMES
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McMinnville, TN 37110



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RESEARCH CONFERENCE

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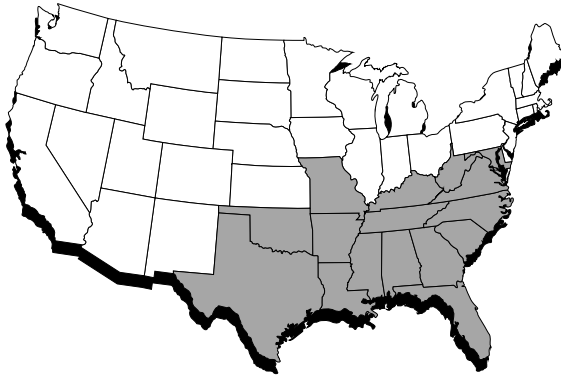
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SIXTEEN GREAT STATES AND BEYOND!



Annual SNA Research Conference

This two-day Horticultural Research Conference is held annually in conjunction with the "The World's Showcase of Horticulture® - recognized by Tradeshow 200™ as one of the 200 largest trade shows in the U.S. The event is held in Atlanta and has become world-renowned for quality research. Participants are the top horticultural research and educational leaders representing the South's top universities. Nurserymen and industry participants are invited to attend any and all sessions. Research presented at the conference is published in the annual publication "SNA Research Conference Proceedings" contained herein. For more information on the SNA Research Conference or the SNA Horticultural Trade Show and Convention, contact the Southern Nurserymen's Association at the following address:

Southern Nurserymen's Association
1000 Johnson Ferry Road, Suite E-130,
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SNA Web Site: <http://www.sna.org>
SNA InfoLine: 770.973.INFO (4636)

ACKNOWLEDGMENTS

The editor and the Board of Directors of the Southern Nurserymen's Association wish to express their sincere appreciation to Robert McNeil, Donna Fare, Frank Hale, John Olive, Travis Phillips, Joyce Latimer, Joe Eakes, Stuart Warren, Roger Harris, Mel Garber, Ron Walden and Phillip Flanagan for the fine job they did as Section Editors and Moderators.

We would like to extend our gratitude to all the researchers and nurserymen who attended our Conference and/or contributed to these Proceedings and continue to make this annual event an industry success.

NOTICE

Mention of a trademark name on a proprietary product does not constitute a guarantee and/or warranty of the product by the researcher(s) or their respective Universities or the Southern Nurserymen's Association and does not imply it's approval to the exclusion of other products that may also be suitable.

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USING RESEARCH DATA SAFELY AND EFFECTIVELY

Good Research is conducted under an exact set of controlled conditions, varying only the specific treatments which are to be evaluated. Results from the specific treatments are directly applicable to your operations only if all the conditions in your operation are controlled the same as in the research. Unfortunately, this seldom happens. However, this does not mean that you can not benefit from the research. What it does mean is that you should use the research information on a trial basis first, if your plant species, soil type, watering method, size and age of plant, climatic region, etc. is different than that described by the researcher.

What an alert grower should expect to gain from these research reports is ideas - ideas as to the best control for insects, disease, nematodes and weeds - labor saving ideas such as chemical pruning and using growth regulators to minimize maintenance. Also, ideas on water management, nutrition, alternative growing media, new plants for landscaping and guides for improving profits and marketing skills.

Should you desire additional information on any report, please write to the author. Mailing addresses are listed in the back of this book. We would like to extend an invitation to you to attend all sessions of the Research Conference held in Atlanta each year in conjunction with "The World's Showcase of Horticulture®."



**41st ANNUAL
SOUTHERN NURSERYMEN'S
ASSOCIATION**

**RESEARCH CONFERENCE PROCEEDINGS
1996**

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Proceedings of the SNA Research Conference is published annually by the Southern Nurserymen's Association and one copy is provided at no charge to all SNA Members, Horticultural Libraries and Contributing Authors.

It is the fine men and women in Horticultural Research that we, the Southern Nurserymen's Association, pledge our continued support and gratitude for their tireless efforts in the pursuit of the advancement of our industry.

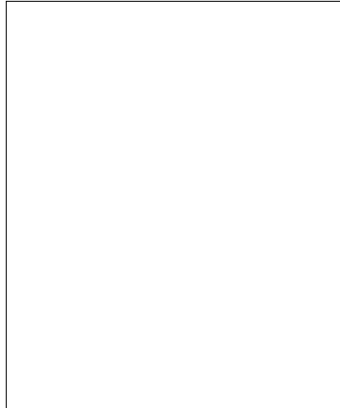
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**THE PORTER HENEGAR MEMORIAL AWARD
for
HORTICULTURAL RESEARCH
1996 RECIPIENT**



**Ken Tilt Receives
Porter Henegar Memorial Award**

The Southern Nurserymen's Association honored Ken Tilt with the Porter Henegar Award on Friday, August 9, 1996, during the 41st Annual SNA Research Conference at SNA '96... The World's Showcase of Horticulture®. The award, originally known as the Research Award of Merit, was created in 1968 to honor those individuals who have made outstanding contributions to ornamental horticulture research and more specifically to the SNA. In 1972, the award was renamed the Porter Henegar Memorial Award to honor one of SNA's past Executive Secretaries, the late Porter Henegar.

After serving in the US Army as a Judo Instructor and in the Military Police, Tilt returned to school at East Carolina University to obtain a bachelor's degree in Psychology and a master's degree in Rehabilitation Counseling. When he realized this was not the career path he wanted to explore, he went back to school and eventually earned a bachelor's and then a Ph.D. in horticulture. After completing his education, Tilt was the Nursery and Landscape Extension Specialist at the University of Tennessee. He continued his horticulture career as an associate professor at Auburn University and was promoted to Professor in July 1996. In 1993, Tilt was elected to the Alabama Urban Forestry Commission.

Among the honors and awards that he has received are the following: ASHS Extension Educational Aids Award for "Hollies for the Landscape in the Southeast; Southern Region ASHS Extension Publication Awards for "Starting a Container Nursery," "Something to Grow On," Time Management in the Nursery and "Conversion Chart for Greenhouse and Nursery Operations." He also received the Dutch and Marilee Cavender Extension Publication Award.

THE
BRYSON L. JAMES
STUDENT RESEARCH COMPETITION

1996 AWARDS

This long-standing program was renamed in August 1989, in honor of Dr. Bryson L. James, Director of Horticultural Research for the Southern Nurserymen's Association. Dr. James has been an active participant and leader in the annual Research Conference for more than 30 years, and the award, named in his honor, is a tribute to his tireless efforts on behalf of the researchers, the association and the industry. Listed below are the guidelines for the Student Competition as well as this year's winners:

1. Any student of a university or college having researchers can participate in the Southern Nurserymen's Association Research Workers Conference if not more than a one (1) academic year removed from graduation and whose research was completed prior to graduation.
2. Research is to be that of the presenter and a part of his/her educational studies. Contract work, unless a part of a thesis or classroom report (credit given), is not acceptable since it may provide unlimited funding and an unfair advantage.
3. Previous first-place winners are not eligible.
4. The student must have submitted a title to the SNA Conference Chairman by the specified time in the Call For Titles. The paper should be submitted to the Section Chairman for the Student Paper Award no later than **July 1**. Also, a copy should be sent to the appropriate "topic" Section Editor.
5. The paper should follow the guidelines for the SNA Research Workers Conference in relation to format and subject matter.
6. The student and his advisor should be listed as co-authors.
7. Oral presentation must be limited to seven (7) minutes. An additional three (3) minutes will be allotted for questions. A penalty of two (2) points per minute or part thereof for every minute over seven (7) minutes will be assessed.
8. Judging shall be based on preparation of the paper (50 points) and oral presentation (100 points) for a total of 150 points.

1996 AWARD WINNERS

Graduate

1st Place	\$500	Jeanne Briggs, Clemson University
2nd Place	\$300	Cynthia Patton, North Carolina State University
3rd Place	\$200	P.A. Merritt, Auburn University

Undergraduate

1st Place	\$500	Jason P. Ball, Clemson University
2nd Place	\$300	Brian Roach, University of Kentucky
3rd Place	\$200	Ben Fischer, Clemson University

SNA RESEARCH CONFERENCE - VOL. 41 - 1996

SECTION 1 - BRYSON L. JAMES STUDENT RESEARCH COMPETITION

Origin	Page No.	Title and Authors
UNDERGRADUATE SECTION		
KY	16-19	Price Trends of Nursery Stock. Brian Roach and Robert E. McNiel
SC	20-23	Pre-Plant Bulb Dips for Height Control of L.A. Hybrid Lilies. Jason P. Ball and William B. Miller.
SC	24-28	New Herbaceous Perennial Species Tolerance to Preemergence Herbicides. Paul M. Ritoch, Russell Smith and Ted Whitwell.
SC	29-32	Different Combinations of Preemergence Herbicides for Weed Control in Container-Grown Plants. Ben Fischer, Russell Smith and Ted Whitwell.
GRADUATE SECTION		
NC	33-36	Seed Germination of Two Provenances of Atlantic White Cedar as Influenced by Stratification, Temperature and Light. Laura G. Jull, Frank A. Blazich and L. E. Hinesley.
FL	37-43	Shade Level, Wind Speed and Wind Direction Affect Air Temperatures Inside Model Shade Structures. Svboda V. Vladimirova, Dennis B. McConnell and Ray A. Bucklin.
FL	44-47	Production Method and Irrigation Affect Post-Planting Root Morphology of <i>Quercus virginiana</i> . Michael D. Marshall and Edward F. Gilman.
AL	48-49	Sequential BA Applications Enhance Offset Formation in Hosta. James M. Garner, Gary J. Keever D. Joseph Eakes and J. Raymond Kessler.
SC	50-53	Movement of Chlorpyrifos and Thiophanate-Methyl in Runoff Water from a Container Nursery. Jeanne Briggs, Ted Whitwell and Melissa B. Riley.
AL	54-56	Recycled Newspaper Use in the Landscape. D.R. Smith, C.H. Gilliam, J.N. Edwards, D.J. Eakes and J.D. Williams.

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- NC 57-60 Natural Resistance to Japanese Beetles Among *Malus* Taxa: Role of Endogenous Foliar Phenolics. Amy F. Fulcher, Thomas G. Ranney, James D. Burton, James F. Walgenbach and Eleanor P. Maness.
- KY 61-64 Germination and Seedling Emergence in Pawpaw [*Asimina triloba* (L.) Dunal]. C.L.H. Finneseth, D.R. Layne and R.L. Geneve.
- TN 65-66 Extracts of Locust and Willow Influence Mung Bean Rooting. Mark J. Arena and Willard T. Witte.
- TX 67-72 Container Production of Under-Utilized Small Trees Using Kenaf and Coconut Coir Pith. Mitchell W. Goyne and Michael A. Arnold.
- KY 73-74 Changes in Root Length and Diameter in Plants Grown in Copper-Treated Containers. Myra Stafford, Robert L. Geneve and Robert E. McNiel.
- NC 75-78 Stock Plant Soluble Carbohydrate and Nitrogen Status Affect Rooting of Stem Cuttings of Loblolly Pine. D. Bradley Rowe, Frank A. Blazich and Farrell C. Wise.
- KY 79-82 Use of Sulfentrazone (F6285) for Weed Management in Field-Grown Ornamentals. Kimberly B. Collins, Leslie A. Weston and Robert E. McNiel.
- AL 83-85 Evaluation of Herbicide Absorption and Release Properties of Five Herbicide-Coated Fertilizers. Kevin R. Keel, Charles H. Gilliam, Glenn R. Wehtje, Tim L. Grey, Gary J. Keever and Donald J. Eakes
- AL 86-88 Flowering Dogwood Performance in a Central Alabama Field Study. R.B. Hardin, D.J. Eakes, C.H. Gilliam and G.J. Keever.
- NC 89-92 The Role of Cyanide in Host Plant Resistance to Japanese Beetle. Cynthia A. Patton, Thomas G. Ranney, James D. Burton and James F. Walgenbach.
- AL 93-95 Container Hole Position Affects Growth of Wetland Species. P.A. Merritt, D.J. Eakes, C.H. Gilliam and G.J. Keever.
- SC 96-98 Herbaceous Perennials Response to Triexpac-Ethyl (Primo) Applications. Russell Smith, W.B. Miller and T. Whitwell.
- KY 99-102 Capillary Mats Modify Media Moisture Content During Mist Propagation. Jennifer J. Marohnic, Robert L. Geneve and Jack W. Buxton.

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SECTION 2 - CONTAINER-GROWN PLANT PRODUCTION

GA	104-106	Biobarrier Rate Influences Rooting-Out of Five Tree Species Produced Pot-in-Pot. John M. Ruter.
VA	107-110	The Cellugro System™ - a New Nursery Production Method. Bonnie Appleton and Susan French.
MS	111-115	Use of Crumb Rubber Amendment in the Production of Poinsettias. Peyton Johnson and David Tatum.
NC	116-117	Nitrogen Nutrition of Containerized Cupressus arizonica var glabra 'Carolina Sapphire.' Hunter L. Stubbs, Stuart L. Warren, Frank A. Blazich, Thomas G. Ranney and Helen H. Tyler.
MS	118-122	Calcium Carbonate Used to Reduce Zinc Toxicity in Media Containing Shredded Waste Tires. Richard L. Harkess.
TN	123-127	Maximizing Efficiency of Greenhouse Space Use. Elizabeth Will and James E. Faust.
NC	128-129	Dairy Cow Compost as a Potting Substrate for Growing Hybrid Rhododendrons. Garry J. Bradley, Mari Helen Glass and Ted E. Bilderback.
TX	130-137	Growth Responses of Container-Grown Baldcypress to Media Drench Applications of Mineral 22 (Mineral Soil Derivative) and Alternative Commercial Fertilizers. Michael A. Arnold.
TN	138-139	Growth of Ornamental Grass Divisions in Bark-Based Media. C.T. Catanzaro, J.L. Meza and R.J. Sauve.
GA	140-142	Fiber Pots Influence the Growth of Three Garden Mum Cultivars. John M. Ruter.
FL	143-145	Comparison of SPIN-OUT and Standard #3 Containers on Marketable Plant Quality. Richard C. Beeson, Jr.
GA/AL	146-147	First Year Differences in Growth of Red Maple 'October Glory' Grown in Multiple Locations. J.L. Sibley, J.M. Ruter and D.J. Eakes.

SECTION 3 - FIELD PRODUCTION - NO PAPERS SUBMITTED

SECTION 4 - ENTOMOLOGY

MS	149-150	Insect Control With Soil Applied Insecticides in the Landscape. David Tatum, Bob Fulgham and Joe Chamberlin.
NC	151-153	Efficacy of Pyrethroid Products, Rates and Formulations on Control of Adult Japanese Beetle Feeding. Thomas G. Ranney and Everett P. Whitman, II.
TN	154-156	Soil and Foliar Applied Insecticides for the Control of <i>Proteopteras aesculana</i> (Lepidoptera: Tortricidae) in Red Maple. F.A. Hale, C. Mannion and M. Halcomb.
MD	157-161	IR-4 Research for Pest Control in Nursery Crops - 1995. J. Ray Frank.
FL	162-164	Evaluation of Plant Tags to Educate Consumers About Plant Pests. R.F. Mizelle, III, G.W. Knox and D.E. Short.
TN/OH	165-167	Impact of Root Ball Dips on White Grub Survival. Catharine M. Mannion, David G. Nielsen, Michael G. Klein and Win McLane.
VA	168-169	Identification, Seasonality and Host Preference of Tip-Feeding Pests of Red Maples. W.H. Mitchell and P.B. Schultz.
GA	170-171	The Interaction of IGRs with Natural Enemies. Denise L. Olson and Ronald D. Oetting.
GA	172	Leaf Beetle Damage to Coreopsis in Low Maintenance Wildflower Plantings. Kris Bramen and Will Corley.

SECTION 5 - PATHOLOGY AND NEMATOLOGY

TN	174-177	Fine Population Structure of <i>Discula destructiva</i> . Gustavo Caetano-Anollés, Robert N. Trigiano and Mark T. Windham.
TN	178-179	Canker and Shoot Blight Diseases of Leland Cypress. Alan S. Windham, Tom C. Stebbins and Mark T. Windham.
AL	180-183	Control Strategies for <i>Phytophthora</i> Shoot Blight on Bedding Plants. A.K. Hagan, B. Behe and J.R. Akridge.
AL	184-187	Evaluation of Selected Indian Hawthorne Cultivars for Resistance to Entomosporium Leaf Spot. J.W. Olive, A.K. Hagan and J.R. Akridge.
AL	188-189	Evaluating Disease Resistance and Alternative Control Treatments for Varieties of Rose in the South. Beth Clenden, Bridget K. Behe and Kira L. Bowen.

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|----|---------|--|
| AL | 190-191 | Weather-Based Scheduling of Fungicide for Blackspot Disease Control on Hybrid Tea Roses in Alabama. Kira L. Bowen and Bridget K. Behe. |
| AL | 192-193 | Use of Film-Forming Antitranspirants to Control Blackspot Disease on Roses. Roland S. Roark, Bridget K. Behe, Kira L. Bowen and J.Raymond Kessler, Jr. |
| TN | 194-196 | Variation in Dogwood Anthracnose Resistance in Half- Sib Families of <i>Cornus kousa</i> . Willard T. Witte, Mark Windham and Scott Schlarbaum. |
| TN | 197-199 | Resistance to Powdery Mildew in Flowering Dogwood. Mark T. Windham. |

SECTION 6 - ENGINEERING, ECONOMICS, STRUCTURES & INNOVATIONS

- | | | |
|----|---------|---|
| KY | 201 | Kentucky Horticulture Survey and Database. Dewayne L. Ingram, Brian Roach and Mary Witt. |
| GA | 202-204 | Horticulturists Rate Problems of Expanding Facilities and Production Capacities. Forrest E. Stegelin. |

SECTION 7 - GROWTH REGULATORS

- | | | |
|----|---------|--|
| NC | 206-208 | Influence of SuMagic Foliar Sprays on Flower Development of Container-Grown Mountain Laurel Cultivars. Richard E. Bir and Garry Bradley. |
| AL | 209-213 | Using Incorporated Hydrophilic Polymers as Growth Retardant Carriers. Kenneth C. Sanderson. |
| VA | 214-217 | Chemical Growth Control of <i>Salvia farinacea</i> 'Victoria Blue.' T.J. Banko and M.A. Stefani. |
| VA | 218-222 | Timing of Sumagic Application Influences <i>Kalmia</i> Flower Bud Initiation and Plant Size. T.J. Banko and M.A Stefani. |
| GA | 223-224 | Influence of Paclobutrazol on Growth of Wintercreeper <i>Euonymus</i> . John M. Ruter. |

SECTION 8 - PROPAGATION

- | | | |
|----|---------|--|
| LA | 226-227 | Influence of Seedling Size and Fertility on Growth of Container-Grown Pecan Rootstock. C.E. Johnson, J.P. Quebedeaux, A.D. Owings and E.W. Bush. |
| NC | 228 | Micropropagation of <i>Stewartia pseudocamellia</i> . Patrick J. McGuigan, Frank A. Blazich and Thomas G. Ranney. |

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- NC 229 Propagation of 'Carolina Sapphire' Smooth Arizona Cypress by Stem Cuttings: Effects of Growth Stage, Type of Cutting and IBA Treatment. Hunter L. Stubbs, Frank A. Blazich, Thomas G. Ranney and Stuart L. Warren.
- NC 230-231 Propagation of *Quercus myrsinifolia* and *Quercus canbyi* by Stem Cuttings. Patrick J. McGuigan, Frank A. Blazich and Thomas G. Ranney.
- TN 232-234 Use of Molecular Markers in a Breeding Program for *Cornus florida*. R.N. Trigiano, S.E. Schlarbaum, L.M. Bell, M.T. Windham, R. Sauve and W. Witte.
- FL/NC 235-238 Auxin Source Influences Root System Quality of Loblolly Pine Stem Cuttings. Mack Thetford and Frank A. Blazich.
- NC 239-242 Response of Microshoots of Mountain Andromeda to in Vitro Ericoid Mycorrhizal Inoculation. Mark C. Starrett, Frank A. Blazich, Larry F. Grand and Steven R. Shafer.
- AL 243-246 High Frequency Adventive Regeneration in Daylily Tissue Cultures Stimulated by Tidiuron (TDZ). Cecil Pounders and Stephen Garton.

SECTION 9 - WEED CONTROL

- MS 248-250 Phytotoxicity of Container Applied Herbicides. David H. Tatum and Norman Winter.
- KY 251-252 Winter Annual Weed Suppression by Spring Applied Preemergence Herbicide Carryover. Robert E. McNeil, Leslie A. Weston and Roselee Harmon.
- KY 253-257 Preemergence Herbicides for Use in Annual Bedding Plants. Leslie A. Weston, Robert E. McNeil and Roselee Harmon.
- TN 258-259 Tolerance of a Lavender *Phlox subulata* to Preemergent Herbicides. Mark A. Halcomb and Donna C. Fare.
- AL 260-261 Effects of Preemergence-Applied Herbicides on Growth of Container-Grown Pampas Grass. James C. Green, Gary J. Keever, Charles H. Gilliam, John Olive and D. Joseph Eakes.
- SC 262-264 Perennial Kyllinga Control in Ophiopogon Production. Ted Whitwell and Russell Smith.

SECTION 10 - LANDSCAPE SECTION

NC	266-269	The Magnolia Family - Observations and Recommendations for Nursery and Landscape Use from The NCSU Arboretum. J.C. Raulston.
FL	270-272	Evaluation of Crape Myrtle Cultivars in North Florida. Gary W. Knox.
GA	273-277	Spring Selection of Bedding Plants to Compliment Summer Blooming Trees. E. Neal Weatherly, Jr. and James T. Midcap.
NC	278-279	Pest Resistant Shrub Roses: The Rest of the Story. R.E. Bir, T.G. Ranney and R.K. Jones.
GA	280-282	Streptocarpus and Hiemalis Begonia in Coir-Amended Landscapes. Joyce G. Latimer, Paul A. Thomas and Sherrod A. Baden.
VA	283-285	Copper Treatment of Pot-in-Pot Production Containers Reduces Post-Harvest Stress of 15-Gallon Thundercloud Plum. J. Roger Harris and Alex Niemiera.
VA	286-288	Influence of Transplant Time on Growth and Embolism Recovery for Turkish Hazelnut and Tree Lilac. Patricia R. Knight, J. Roger Harris and Jody Fanelli.
NC	289-291	Using New Nursery Crops Research Plants for Diverse Institutional Goals. Catherine Knes-Maxwell and J.C. Raulston.
TN	292-295	Performance of Ivy Cultivars Under Tennessee Landscape Conditions. Willard T. Witte.
NC	296	Landscape Professionalism in NC. M.A. Powell
LA	297-300	Performance of Warm Season Lawn Grasses Under Shaded Conditions. Mark LeBlanc, James N. McCrimmon, Andrew C. Williams and Edward W. Bush
TN	301-303	Development of a Regional Landscape Management Association. Hubert P. Colon.

SECTION 11 - MARKETING

- LA 305-309 Estimating the Value of Ornamental Plants and Turfgrass Industries in Louisiana. Roger Hinson and David Hughes.
- GA 310-311 Marketing to Landscape Maintenance Firms. Mel Garber.
- GA 312-313 Count Customers and Defections in Marketing Analysis. Forrest Stegelin.
- TN 314-319 Nationwide Growth in the Nursery Industry: Are Southern States Gaining or Losing Market Share? John R. Brooker.
- AL 320-322 Comparison of Traditional and Non-Traditional Retail Garden Center Service Quality. Jay Hudson, Bridget Behe, Harry Ponder and Bill Barrick.
- AL 323-325 Certified Nurseries Use of Media, Fertilizer and Composted Waste Products. Bridget Behe and Catherine Walker.
- TN 326-329 Characteristics, Perceptions and Judgments of Consumers of Nursery Products in Greater Metropolitan Nashville, Tennessee. Surendra P. Singh, Enefiok Ekanem, Fisseha Tegegne, and Sam O. Dennis.
- GA 330-333 Influential Factors on Out-of-State Product Sales by U.S. Wholesale Nurseries. Steven C. Turner, Forrest Stegelin and Randall E. Cleland.

SECTION 12 - WATER MANAGEMENT

- MD 335-336 Maryland Nursery Nutrient Management Survey Report 1995. K. Marc Tefteau, David Ross, Stan Gill, Russell Balge, Tom Blessington, Wanda McLaughlan, Robert Stewart, Ginny Rosenkranz and Suzanne Klick
- VA 337-340 Container Irrigation Based on Substrate Moisture Tension Reduces N Leaching. Ron Walden and Alex Niemiera.

SECTION 13 - POSTER SECTION

- GA 342-345 Pest Management in the Greenhouse and Nursery Industry. Will Hudson, Mel Garber, Jeff Norcini, Ron Jones and Bill Thomas.
- GA 346-347 The Georgia Station Research and Education Garden: Research on Display. Joyce G. Latimer and Robin Russell.
- KY 348-350 Winter Survival of Daylily Cultivars in West Kentucky. Winston C. Dunwell, Dwight Wolfe and June Johnston.
- GA 351-352 Response of Seven Herbaceous Ornamentals to Root-Knot Nematodes. John Melin and Jerry Walker.

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TN	353-354	Using Molecular Markers to Detect Misidentified Plants. Nick J. Gawel.
TN	355-358	Storage of Dogwood (<i>Cornus florida</i>) Pollen. S.M. Reed, J. Hill Craddock, S. Schlarbaum and R. Sauve.
FL	359-362	Response of <i>Ligustrum</i> to Winter Fertilization and Iron Humate. Tom Yeager, Claudia Larsen and Claire Brooks.
FL	363-365	Irrigation Nozzle Height Influences Water Capture by Containers. Thomas H. Yeager and Richard C. Beeson, Jr.
AL	366-368	Employee Training: Methods and Effectiveness. J.H. Potter, J.D. Williams, B.K. Behe and H.G. Ponder.
TN	369-371	A Key for the Identification of Poinsettia Cultivars Using RAPD Markers. Jing-Tian Ling, Roger J. Sauve and Nick Gawel.
VA	372-377	Summer and Winter Container Substrate Temperatures for the Pot- in-Pot and Above-Ground Systems. Alex X. Niemiera, Marion J. Packett and Robert D. Wright.
TN	378-382	Fruit Set in Hand Pollinated and Honeybee Pollinated Dogwoods. Roger J. Sauve, James Hill Craddock, Jing-Tian Ling, Scott E. Schlarbaum, John Skinner, Robert N. Trigiano, Mark T. Windham and Williard T. Witte.
LA	383-384	Liriope and Juniper Growth as Influenced by Bark, Lime, and Fertilizer Sources. Allen Owings, Edward Bush and Mitchell Goyne.
TN	385-392	Maple Evaluations at TSU-NCRS. Willard T. Witte, Roger Sauve, Margaret T. Mmbaga and Phillip C. Flanagan.
TN	393-398	Oak Evaluations at TSU-NCRS. Willard T. Witte, Roger Sauve and Phillip C. Flanagan.
AL	399-402	Nitrogen Movement in Container Nurseries. K.M. Tilt, C.H. Gilliam, E.H. Simonne, G.J. Keever and M.L. Olive.
TN	403-405	Effect of N Fertilizer Rate and Timing of Application on Field Production of Tulip Poplars. R.W. Cripps and W.E. Davis.