

PROCEEDINGS OF



**RESEARCH
CONFERENCE**

Thirty-Seventh Annual Report

1992

Compiled and Edited by
BRYSON L. JAMES
P.O. Box 230
McMinnville, TN 37110



Southern Nurserymen's Association, Inc.

OFFICERS

President

Larry D. Edwards
Turtle Creek Nursery
P.O. Box 668
Huntersville, NC 28078

Vice President/Treasurer

Don Shadow
Shadow Nursery, Inc.
Route 1, Box 37A
Winchester, TN 37398

Executive Vice President

Danny Summers
1000 Johnson Ferry Road, Suite E130
Marietta, GA 30068-2100
Phone (404) 973-9026
FAX (404) 973-9097

Immediate Past President

J. Fred Fisher, II
Fisher's Landscaping
P.O. Box 16776
Hattiesburg, MS 39402

DIRECTORS

Chapter 1

John C. Watkins
Watkins Nurseries, Inc.
P.O. Box 159
Modlothian, VA 23113

Chapter 3

Don Shadow
Shadow Nursery, Inc.
Route 1, Box 37A
Winchester, TN 37398

Chapter 2

Arthur A. "Buck" Jones
Aurthur A. Jones & Associates
P.O. Box 339
Greysen, GA 30221

Chapter 4

William H. "Buzz" Barton
Barton's Nursery & Lndscp.
251 Ricemine Road, NE
Tuscaloosa, AL 35406

RESEARCH CONFERENCE

Dir. of Hort. Research & Chairman
Dr. Bryson L. James
P. O. Box 230
McMinnville, TN 37110

Co-Chairman
Jim Berry
Flowerwood Nursery, Inc.
P.O. Box 665
Loxley, AL 36551



SIXTEEN GREAT STATES and BEYOND!



ANNUAL SNA RESEARCH CONFERENCE

This two-day Horticultural Research Conference, held annually in conjunction with the SNA Horticultural Trade Show and Convention, is 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 E130
Marietta, GA 30068-2100
(404) 973-9026 FAX (404) 973-9097

ACKNOWLEDGEMENTS

The editor and the Board of Directors of the Southern Nurserymen's Association wish to express their sincere appreciation to Jeffrey Derr, Bonnie L. Appleton, Kenneth Tilt, Beverly Sparks, Jerry T. Walker, Robert E. McNiel, Will Witte, Ted Whitwell, James Aitken, Will Corley, M.P. "Mel" Garber, Ron Oetting, Mark Halcomb, Orville Lindstrom, and Alex Niemiera for the fine job they did as Section Chairmen 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.

Permission to reprint articles and quotations of portions of this publication is hereby granted on condition that full credit be given to both the author(s) and the publication, Proceedings SNA Research Conference along with the date of the Publication.

The Southern Nurserymen's Association is not responsible for the statements and opinions printed in the Proceedings SNA Research Conference; they represent the views of the author (s).

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 SNA Horticultural Trade Show.



**37th ANNUAL
SOUTHERN NURSERYMEN'S
ASSOCIATION**

**RESEARCH CONFERENCE REPORT
1992**

Southern Nurserymen's Association
Danny Summers, Executive Vice President
1511 Johnson Ferry Road, Suite 115
Marietta, GA 30062-6438
(404) 973-9026

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.


ADDITIONAL COPIES:

SNA Members, Horticultural Libraries, and Contributing Authors \$15.00*
Non-Members \$25.00*

*includes shipping and handling

© Published October, 1992

**THE PORTER HENEGAR MEMORIAL AWARD
for
HORTICULTURAL RESEARCH
1992 RECIPIENT**



(Photo Here)

**Richard E. Bir Honored
By Southern Horticulturists**

The 1992 Porter Henegar Memorial Award was presented to Richard E. Bir from North Carolina State University on Friday, July 31. Bir was honored by his peers with this annual award recognizing those individuals who have made outstanding contributions to ornamental horticulture research and more specifically to the SNA.

Bir joined the faculty of the Department of Horticultural Science at North Carolina State University as an Extension Specialist - Nursery Crops in 1979, following seven years as an Extension agent in Florida. He is located at the Mountain Horticultural Crops Research and Extension Center in Fletcher, NC. His primary work is with county agents and nurserymen from North Carolina and throughout the nation.

As an Extension Specialist, he has published hundreds of articles in both popular and professional journals as well as his 1992 book, *Growing and Propagating Showy Native Woody Plants*. The diversity of his interests are reflected in the subject matter covered in the practical research papers presented at the SNA Research Conference on field and container plant nutrition, fertigation, drought tolerance, container media, propagation, shading, winter protection, entomology, plant pathology and chemical growth regulators. Dick is a frequent speaker on an equally broad range of topics on nursery and other horticultural programs throughout the eastern United States.

**THE
BRYSON L. JAMES
STUDENT RESEARCH COMPETITION**

1992 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 that participate in the Southern Nurserymen's Association Research Workers Conference and 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. Each eligible university or college may enter up to two (2) students.
4. Previous first-place winners are not eligible.
5. 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 Chairman.
6. The paper should follow the guidelines for the SNA Research Workers Conference in relation to format and subject matter.
7. The student and his advisor should be listed as co-authors.
8. 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.
9. Judging shall be based on preparation of the paper (50 points) and oral presentation (100 points). Total 150 points.

1992 AWARD WINNERS

1st Place - \$1,000.00	Renee J. Keese, Clemson University
2nd Place - \$ 600.00	Patricia R. Knight, Auburn University
3rd Place - \$ 400.00	Mark C. Starrett, N.C. State University

TABLE OF CONTENTS

ORIGIN	PAGE NO.	PAPER AND AUTHOR(S)
SECTION 1 - BRYSON L. JAMES STUDENT RESEARCH COMPETITION		
Alabama	19-21	SHADE DURING CONTAINER PRODUCTION OF FLOWERING DOGWOOD INCREASES GROWTH. D. Thayne Montague, D. Joseph Eakes, Charles H. Gilliam, Kenneth M. Tilt and Harry G. Ponder.
Virginia	22-25	MIST IRRIGATION REDUCES POST-TRANSPLANT DESSICATION OF BARE ROOT TREES. Rick M. Bates and Alex X. Niemiera.
North Carolina	25-27	MICROPROPAGATION OF <u>PIERIS FLORIBUNDA</u> . Mark C. Starrett, Frank A. Blazich, Juan R. Acedo and Stuart L. Warren.
Georgia	28-30	NATURAL CONTROL OF THE AZALEA LACEBUG IN THE LANDSCAPE. Julie A. Wise, S. Kris Braman and K.E. Espelie.
South Carolina	31-33	ROUT HERBICIDE MOVEMENT IN RUNOFF WATER: QUANTIFICATION AND BED-COVER EFFECTS. Renee J. Keese, N. Dwight Camper, Me Lissa B. Riley, Ted Whitwell and Chris Wilson.
Tennessee	34-37	ROLE OF CONVERGENT LADY BEETLE, <u>HIPPODAMIA CONVERGENS</u> (COLEOPTERA : COCCINELLIDAE), IN DISPERSAL OF <u>DISCIJLA</u> SPORES AND SPREAD OF DOGWOOD ANTHRACNOSE. Deanna M. Colby, Mark T. Windham and Jerome F. Grant.
North Carolina	37-39	TURF HERBICIDE DAMAGE TO BRADFORD PEAR AND EASTERN REEDBUD AS INFLUENCED BY LANDSCAPE MULCHES. Laurie J. Smith and Walt A. Skroch.
Alabama	39-41	ROOT CONTROL TECHNIQUES FOR THE URBAN LANDSCAPE. Patricia R. Knight, D. Joseph Eakes, Charles H. Gilliam and Jesse A. Reeder.
Virginia	41-44	LOW WATER APPLICATION RATE AND INTERMITTENT IRRIGATION INCREASE IRRIGATION EFFICIENCY OF SPRINKLER-IRRIGATED CONTAINER-GROWN PLANTS. Nahila Subbi Karam and Alex Niemiera.

"SNA RESEARCH CONFERENCE - VOL. 37-1992"

ORIGIN	PAGE NO.	PAPER AND AUTHOR(S)
North Carolina	45-47	EFFECT OF APPLICATION METHOD ON HERBICIDE LOSS IN SURFACE RUNOFF FROM CONTAINER PRODUCTION SAITES. Gail Mahnken and Walt Skroch.
South Carolina	47-51	MEDIA PH AS A FACTOR IN AN IRON RELATED DISORDER IN CUTTING GERANIUM. Gary Bachman Aand Mary C. Halbrooks.
Alabama	52-53	TRANSMISSION OF <u>PHYTOPHTHORA PARASITICA</u> IN AN EBB AND FLOW SUBIRRIGATION SYSTEM. Stephen S. Strong, C. Fred Deneke, Kira L. Bowen, Bridget K. Behe and Gary J. Keever.

SECTION 2 - CONTAINER-GROWN PLANT PRODUCTION

Texas	55-56	GROWTH ENHANCEMENT OF NEEM TREE SEEDLINGS WITH MYCORRHIZAL FUNGI. F.T. Davis,Jr., S. A. Duray, S. H. Bo, and L. Phavaphutanon .
Virginia	56-59	GROWTH RESPONSE OF 'CONVEXA' HOLLY TO DORMANT LEAF TISSUE N LEVEL AND TIMING OF SPRING FERTILIZATION. Ronald F. Walden and Galina Epelman.
North Carolina	60-64	THE AFFECT OF SELECTED CONTROLLED RELEASE FERTILIZERS ON AZALEA LEAF RETENTION. R.E. Bir, T.E. Bilderbach and J.L. Conner.
Mississippi	64-68	EVALUATION OF HIGH NITROGEN SLOW RELEASE FERTILIZERS. Adolph J. Laiche, Jr.
Alabama	69-72	EFFECT OF SIERRA FERTILIZER PLACEMENT ON THE GROWTH OF CONTAINERIZED WOODY ORNAMENALS. Kenneth C. Sanderson and J.A. McGuire.
Florida	72-74	COMMERCIAL PRODUCTION OF LANDSCAPE PLANTS USING YARD WASTE COMPOST. Dennis B. McConnell and Robert Harrell.
Mississippi Louisiana	75-76	GROUND TEA LEAVES AS A BEDDING PLANT MEDIUM AMENDMENT. David H. Tatum and Allen D. Owens.

"SNA RESEARCH CONFERENCE - VOL. 37-1992"

ORIGIN	PAGE NO.	PAPER AND AUTHOR(S)
Georgia	77-78	PREDICTING NO ₃ -N CONCENTRATIONS FROM ELECTRICAL CONDUCTIVITY MEASUREMENTS WITH CONTROLLED RELEASE FERTILIZERS. John M. Ruter.
Georgia	79-81	CONTAINER DESIGN AND POTTING MEDIA INFLUENCE THE GROWTH OF TWO RABBITEYE BLUEBERRY CULTIVARS. John M. Ruter and Max E. Austin.
Virginia	81-83	THE RELATIONSHIP BETWEEN CONTAINER SIZE, FERTILIZATION AND PLANT GROWTH. Daniel C. Milbocker.
South Carolina	84-86	HORTICULTURAL USES FOR COMPOSTED MUNICIPAL WASTES. D. F. Wagner.
North Carolina	87-90	USE OF COMPOSTS IN COMMERCIAL NURSERY POTTING SUBSTRATES. T. E. Bilderback and E. Lewis Phillips, Jr.
	90-93	COMPOSTED TURKEY LITTER: EFFECT ON CHEMICAL AND PHYSICAL PROPERTIES OF A PINE BARK SUBSTRATE AND PLANT GROWTH. Helen H. Tyler, Stuart L. Warren, Ted E. Bilderback and William C. Fonteno.
Tennessee	94-98	CUPRIC HYDROXIDE-TREATED CONTAINERS DECREASE POT-BINDING OF FIVE SPECIES OF VIGOROUSLY ROOTED GREENHOUSE CROPS. Gary N. Case and Michael A. Arnold.
North Carolina	99	INITIAL GROWTH OF SEEDLINGS OF FLAME AZALEA IN RESPONSE TO DAY/NIGHT TEMPERATURE. Asiah A. Malek, Frank A. Blazich, Stuart L. Warren, and James E. Shelton.
Florida	100-102	FASTER GROWTH OF <u>RADERMACHERA SINICA</u> AFTER TRANSPLANTING FROM COPPER-TREATED LINERS. Sven E. Svenson and Diane L. Johnston.
	102-105	FASTER GROWTH OF SCHEFFLERA USING EXTERIOR RETRACTABLE SHADING. Sven E. Svenson, Diane L. Johnston, and William L. Schall.
	105-107	<u>PHOTINIA</u> UPCANNING STEPS DEPEND ON FERTILIZER TYPE. Richard C. Beeson, Jr.

"SNA RESEARCH CONFERENCE - VOL. 37-1992"

ORIGIN	PAGE NO.	PAPER AND AUTHOR(S)
Florida	108-110	SHADE INFLUENCES ON YELLOW SPOTTING OF SAGO PALM LEAFLETS. Thomas Yeager and Claudia Larsen.
Virginia	110-111	LIMING REQUIREMENTS FOR LILAC. Carol E.Leda and Robert D.Wright.
Alabama	112-114	EVALUATION OF 1988-90 GARDEN CHRYSANTHEMUM CULTIVARS GROWN IN SIX-INCH POTS. Kenneth C. Sanderson and John McGuire.
Alabama	115-119	COMPARISON OF SELECTED CHRYSANTHEMUM CULTIVARS GROWN IN HANGING GARDENS WITH AND WITHOUT HYDROPHYLIC POLYMER TREATMENT. Kenneth C. Sanderson and John A. McGuire
GA	120-121	COMPUTER MODEL FOR PREDICTING VOLUME SHRINKAGE UPON MIXING THREE DIFFERENT CONTAINER MEDIUM COMPONENTS. Silvia Bures and Frank Pokorny.

SECTION 3 - FIELD PRODUCTION

Alabama	123-125	EFFECTS OF PLANTING DEPTH ON THREE ORNAMENTAL TREES. Chuck Browne and Ken Tilt.
	125-127	EFFECTS OF LINER SIZE ON GROWTH AND ESTABLISHMENT OF DOGWOODS. Ken Tilt and Chuck Browne.
Tennessee	128-132	N FERTILIZATION OF FIELD GROWN WOODY ORNAMENTALS. Reed W. Cripps.
South Carolina	133-134	INFLUENCE OF SLOW-RELEASE FERTILIZER PLACEMENT ON GROWTH OF FIELD GROWN <u>ACER RUBRUM</u> . James B. Aitken.
	135-137	EFFECT OF FERTIGATION AND FABRIC BAG ON ROOT DEVELOPMENT OF <u>ILEX</u> 'NELLIE R. STEVENS' HOLLY. James B. Aitken.
Tennessee	137-139	PROVENANCE SELECTION IMPROVES THE NURSERY PERFORMANCE OF SYCAMORE AND SWEET GUM SEEDLINGS IN THE FIELD. Michael A. Arnold and W. Edgar Davis.

"SNA RESEARCH CONFERENCE - VOL. 37-1992"

ORIGIN	PAGE NO.	PAPER AND AUTHOR(S)
Tennessee	140-142	ROOT DEVELOPMNET OF FIELD GROWN SAWTOOTH OAK AFTER CHEMICAL ROOT PRUNING. Phillip C. Flanagan and W. T. Witte.
SECTION 4 - ENTOMOLOGY		
Virginia	144-145	PEST MANAGEMENT STRATEGIES FOR AZALEA LACEBUG. P. B.Schultz and M. S. Dills.
	146-147	EVALUATION OF BAGWORM CONTROL STRATEGIES, 1991. P. B. Schultz and M.S. Dills.
Alabama	147-149	CHEMICAL CONTROL OF AZALEA LACEBUG. J. C. Stephenson M.L. Williams and J. W. Olive.
Louisiana	150-151	EVALUATION OF FOUR INSECTICIDES FOR SWEETPOTATO WHITEFLY CONTROL ON GREENHOUSE POINSETTIAS. Donald L. Fuller and Edward W. Bush.
Mississippi	152-155	PHYTOTOXICITY OF TALSTAR 10 WP SURFACE APPLIED AND PREPLANT INCORPORATED TO SELECTED CULTIVARS OF SUCCULENT AND WOODY ORNAMENTAL PLANTS. Timothy C. Lockley and A. J. Laiche, Jr.
Louisiana	156-159	EARLY SEASON PAINT-ON APPLICATION OF ORTHENE 75S FOR APHID CONTROL ON CRAPEMYRTLE. Severn C. Doughty, Dale K. Pollet, Roysell J. Constantin, D. Wayne Wells, and Kenneth L. Koonce.
South Carolina	160-162	SUITABILITY OF 'NATCHEZ' VS. 'CAROLINA BEAUTY' CRAPEMYRTLE CULTIVARS AS HOSTS FOR THE CRAPEMYRTLE APHID. David R. Alverson and R. Ken Allen.
Alabama	162-164	CONTROL OF SWEETPOTATO WHITEFLY, <u>BEMISIA TABACI</u> , ON CONTAINER GROWN HIBISCUS. Michael L. Williams and Jimmy Stephenson.
Tennessee	164-166	LIFE HISTORY OF THE WALNUT SCALE ON DOGWOOD IN TENNESSEE. P.L. Lambdin and J.F. Grant.
	167-168	AREA-WIDE DISTRIBUTION OF <u>RHINOCYLLYS CONICUS</u> (COLEOPTERA:CURCULIONIDAE) AGAINST MUSK THISTLE IN TENNESSEE. Jerome F. Grant and Paris L. Lambdin.

"SNA RESEARCH CONFERENCE - VOL. 37-1992"

ORIGIN	PAGE NO.	PAPER AND AUTHOR(S)
Tennessee	169-171	THE ARTHROPOD FAUNA IN DETRITUS IN FRASER FIR STANDS. David N. Hughes, Paris L. Lambdin and Jerome F. Grant.
North Carolina	172-177	NATURAL RESISTANCE OF BIRCH, CHERRY AND CRABAPPLE TAXA TO FEEDING BY ADULT JAPANESE BEETLES. Thomas G. Ranney.
Georgia	177-180	INSECT PROBLEMS AND INSECTICIDE EFFECTIVENESS AS SEEN BY NURSERY GROWERS IN THE SOUTHEAST. Ronald D. Oetting and John R. Allison.
	180-183	EVALUATION OF AZALEA LACEBUG CONTROL STRATEGIES. S.K. Braman, A.F. Pendley and J.A. Wise.

SECTION 5 - PATHOLOGY AND NEMATODOLOGY

Georgia	185-188	SOME CHARACTERISTICS OF <u>TUBAKIA DRYINA</u> ISOLATED FROM WATER OAK. Y. C. Zhang and J. T. Walker.
	188-190	TOMATO SPOTTED WILT VIRUS ON BEDDING PLANTS IN SOUTH GEORGIA. John M. Ruter and Ron D. Gitaitis.
Alabama	191-192	CHEMICAL CONTROL OF SPOT ANTHRACNOSE OF DOGWOOD. A. K. Hagan and John W. Olive.
	193-196	DISTRIBUTION AND SEVERITY OF DOGWOOD ANTHRACNOSE ON DOGWOOD IN ALABAMA. Austin Hagan and Jackie Mullen.
Tennessee	196-199	DNA AMPLIFICATION FINGERPRINTING OF DOGWOOD ANTHRACNOSE FUNGI. R. N. Trigiano, G. Caetano-Anolles, B. J. Bassam, K. R. Weaver, M.T. Windham and P. M. Gresshoff.
	200-201	IDENTIFICATION OF <u>CORNUS</u> SPECIES RESISTANT TO DOGWOOD ANTHRACNOSE. D.A. Brown M.T. Windham and R.N. Trigiano.
	202-203	EFFECTS OF TREE PLACEMENT ON DOGWOOD ANTHRACNOSE SEVERITY. M.T. Windham and A.S. Windham.

"SNA RESEARCH CONFERENCE - VOL. 37-1992"

ORIGIN PAGE NO. PAPER AND AUTHOR(S)

SECTION 6 - ENGINEERING, ECONOMICS, STRUCTURES & INNOVATIONS

Georgia	205-208	A COMPUTER COST ESTIMATOR FOR LANDSCAPE INSTALLATION. Gary L. Wade and William A. Thomas.
Kentucky	208-212	INFLUENCE OF ROW SPACING ON THE COST OF FIELD PRODUCED SHADE TREES IN HARDINESS ZONE SIX. Robert E. McNiel.
	213-215	ECONOMICS OF LEASING LAND FOR NURSERY PRODUCTION. Forrest E. Stegelin.
Tennessee	216-221	COST OF FIELD-GROWN PLANTS: A "LOTUS" COMPUTER PROGRAM FOR ESTIMATING COST. Larry A. Johnson.
Delaware Florida Louisiana Kentucky Mississippi Pennsylvania	221-228	ESTABLISHING AND OPERATING A GARDEN CENTER: REQUIREMENTS & COSTS. Susan Barton (DE), John J. Haydu (FL), Roger A. Henson (LA), Robert E. McNiel (KY), Travis D. Phillips (MS), Russell D. Powell (PA) and Forrest E. Stegelin (KY).
Mississippi	228-234	CASH FLOW ANALYSIS FOR A CONTAINER NURSERY FOR ALTERNATIVE START-UP SCENARIOS. Kenneth W. Hood and Travis D. Phillips.

SECTION 7 - GROWTH REGULATORS

North Carolina	236-237	NAA AS A SPROUT INHIBITOR ON RIVER BIRCH. R. E. Bir and T. G. Ranney.
Virginia	238-240	CHEMICAL GROWTH CONTROL OF CONTAINER-GROWN WOODY PLANTS. Thomas J. Banko and Marcia A. Stefani.
Georgia	241-244	GROWTH OF FLOWERING ANNUALS FOLLOWING FIELD APPLICATION OF DAMINOZIDE AND PACLOBUTRAZOL. David A. Gilbertz and Joyce G. Latimer.
North Carolina	245-247	PHOTOSYNTHESIS AND FLOWERING RESPONSES OF FORSYTHIA X INTERMEDIA 'SPECTABILIS' FOLLOWING UNICONAZOLE APPLICATION. Mack Thetford, Stuart L. Warren, and Frank A. Blazich.

"SNA RESEARCH CONFERENCE - VOL. 37-1992"

ORIGIN	PAGE NO.	PAPER AND AUTHOR(S)
Georgia	247-248	GROWTH RESPONSE OF FORTUNE ROSE TO APPLICATION OF PACLOBUTRAZOL. John M. Ruter.
Tennessee	249-251	EVALUATION OF BONZI AND CYCOCEL AS GROWTH REGULATORS FOR THREE ROSE CULTIVARS. Mark Nash, Brian Corr, and Nabeel Bader.
North Carolina	251-252	GROWTH RESPONSE OF SEEDLINGS OF FLAME AZALEA TO MANUAL AND CHEMICAL PINCHING. Asiah A. Malek, Frank A. Blazich, Stuart L. Warren, and James E. Shelton.
Alabama	253-255	INFLUENCE OF SUMAGIC ON FIELD GROWN ELAEAGNUS AND LLEYLAND CYPRESS. Gary J. Kever.
Georgia	256-260	EVALUATION OF PLANT GROWTH REGULATORS ON PETIOLE AND SHOOT GROWTH OF HERBACEOUS PERENNIALS. Paul A. Thomas, Joyce G. Latimer and Sherrod A. Baden.
	261-265	EFFECTS OF PLANT GROWTH REGULATORS ON LATERAL BRANCHING AND SHOOT GROWTH OF HYPERICUM. Paul A. Thomas, Joyce G. Latimer, Donglin Zhang and Shirley Hartzler

SECTION 8 - PROPAGATION

Georgia	267-269	ROOTING AND SURVIVAL OF <u>STEWARTIA MONADELPHA</u> CUTTINGS IN GYPSUM-AMENDED ROOTING MEDIA. Timothy J. Smalley and Damiano Avanzato.
Virginia	270-273	PROPAGATION MEDIUM MOISTURE LEVEL AND ROOTING OF WOODY STEM CUTTINGS. Robert D. Wright, William H. Rein and John R. Seiler.
Alabama	274-276	EFFECTS OF NUTRIENT VARIATION ON FOSTER HOLLY PROPAGATION AND EARLY DEVELOPMENT. Cecil Pounders and Sam Foster.
Georgia	277-279	SEXUAL PROPAGATION OF ADAPTED ORNAMENTAL GRASSES. W. L. Corley.
North Carolina	280-280	VEGETATIVE PROPAGATION OF EASTERN RED CEDAR BY STEM CUTTINGS: FACTORS AFFECTING ADVENTITIOUS ROOTING. Paul H. Henry, Frank A. Blazich, and L. Eric Hinesley.

ORIGIN PAGE NO. PAPER AND AUTHOR(S)

SECTION 9 - WEED CONTROL

- North Carolina 282-283 SOIL FUMIGATION ALTERNATIVES TO ELIMINATE POLYETHYLENE COVERS.
W.A. Skroch, L. B. Gallitano, and R. E. Wooten.
- 284-285 HERBICIDE PHYTOTOXICITY ON BULBS AND BEDDING PLANTS. W. A. Skroch and R. E. Wooten.
- 285-287 XANTHOMONAS CONTROL OF ANNUAL BLUE-GRASS (POA ANNUA VAR. ANNUA L. TIMM).
Kathie E. Kalmowitz, T. J. Monaco, and Paul Zorner.
- Alabama 288-291 WEED CONTROL COSTS USING METHYL BROMIDE AND HERBICIDES FOR SOUTHERN PINE NURSERIES. David B. South.
- Virginia 291-293 COMBINATIONS OF FABRICS AND FILMS WITH ORGANIC AND INORGANIC MULCHES FOR LANDSCAPE WEED CONTROL.
Jeffrey F. Derr and Bonnie L. Appleton.
- Kentucky 293-296 SPLIT APPLICATION OF HERBICIDES FOR WEED CONTROL IN WOODY NURSERY PLANTS.
Robert E. McNiel and Leslie A. Weston.

SECTION 10 - LANDSCAPE SECTION

- Alabama 298-300 BEDDING PLANT RESPONSE TO INCORPORATED BROILER LITTER. J. A. Reeder, C. H. Gilliam, C. C. Mitchell, and J. O. Donald.
- Kentucky 301-304 LANDSCAPE FABRICS AS WEED BLOCKERS: DIFFERENCES IN WEED COVER SUPPRESSION.
Robert E. McNiel and Leslie A. Weston.
- North Carolina 305-306 ALMANAC GARDEN. M. A. Powell and P. K. Britt.
- 307-308 BACKYARD COMPOSTING IN NORTH CAROLINA.
M. A. Powell.
- Louisiana 309-310 DEVELOPMENT OF THE LSU AGRICULTURAL CENTER NATIVE PLANT ARBORETUM.
Allen D. Owings and Charles E. Johnson.
- Alabama 310-313 SCREENING BROWSE PREFERENCE OF WHITE-

"SNA RESEARCH CONFERENCE - VOL. 37-1992"

ORIGIN	PAGE NO.	PAPER AND AUTHOR(S)
		TAILED DEER FOR LANDSCAPE ORNAMENTALS. Dan H. Land, Kenneth M. Tilt, M. Keith Causey, and Lee Stribling.
	313-315	PERFORMANCE EVALUATION OF HERBACEOUS PLANTS AT AUBURN UNIVERSITY. C. Frederick Deneke and Bridget K. Behe.
Texas	315-318	CREATING A XERISCAPE GARDEN FOR WEST TEXAS. David L. Morgan, Cynthia McKenney and Janet Atyia.
Virginia	318-319	TREE TRUNK WRAPS, PAINTS AND PROTECTIVE DEVICES. Bonnie L. Appleton, Susan French and Audrey Salzman.
Virginia	320-322	TREE ROOT RESPONSES TO DIFFERENT SOIL Maryland COVERING - MULCH COMBINA- TIONS. K. Marc Teffeau, Bonnie L. Appleton and Jeffrey F. Derr.
North Carolina	323-326	JUNIPERUS HORIZONTALIS CULTIVAR EVALUA- TIONS AT THE NCSU ARBORETUM. Kim E. Tripp and J. C. Raulston.
North Carolina	326-329	ROOTSTOCKS FOR ORNAMENTALS PRODUCTION IN THE SOUTHEASTERN U.S. J. C. Raulston and Kim E. Tripp.
	330-335	EVERGREEN VINES FOR COMMERCIAL PRODUC- TION IN THE SOUTHEASTERN U. S. J. C. Raulston.
	336-339	CRYPTOMERIA EVALUATIONS AT THE NCSU ARBORETUM. Kim E. Tripp and J. C. Ralston.
Florida	340-342	SUSCEPTIBILITY OF CRAPEMYRTLE CULTIVARS TO CRAPEMYRLE APHID AND POWDERY MILDEW. Gary W. Knox, Russell F. Mizell III and Daniel O. Chellemi.

SECTION 11 - MARKETING

Florida	344-346	INDUSTRY TRADE SHOWS AS MARKETING TOOLS. John J- Haydu and Alan Meerow.
---------	---------	--

"SNA RESEARCH CONFERENCE - VOL. 37-1992"

ORIGIN	PAGE NO.	PAPER AND AUTHOR(S)
Tennessee	347-349	FLORICULTURE CROPS AS A SOURCE OF DIVERSIFICATION AND ENHANCEMENT OF INCOMES ON SMALL FARMS. Surendra P. Singh, Sam Osawaru, and Fisseha Tegegne.
Georgia	349-353	AN ALL YEAR SALES STRATEGY TO PROMOTE "FALL IS FOR PLANTING". E. Neal Weatherly, Jr. and James T. Midcap.
	354-358	FACTORS LIMITING THE EXPANSION OF ENVIRONMENTAL PLANT NURSERIES: A COMPARISON ACROSS 23 STATES. John R. Brooker, Steve Turner, and Roger Hinson.
	359-360	ENHANCED MARKETING TECHNIQUES FOR NURSERYMEN. M. P. Garber.
Alabama	361-363	POSITIONING STRATEGY FOR A GROWING MEDIUM AMENDED WITH COMPOSTED BROILER LITTER. Bridget Behe, Lilie Purvis, James Donald, and Charles Gilliam.
	364-366	PRODUCT MIX DIFFERENCES OF PERENNIAL PLANT PRODUCERS. Bridget Behe and Lisa Beckett.
Alabama	366-368	COMPARISON OF PERENNIAL PLANT BUSINESSES BY AGE. Lisa M. Beckett and Bridget K. Behe.
North Carolina	369-370	PLANT PROFILES PROMOTE PLANTS TO THE PUBLIC. Kim E. Tripp and J. C. Raulston.
North Carolina	371-373	MARKETING NEW PLANTS THROUGH INDUSTRY PROPAGATION WORKSHOPS AT THE NCSU ARBORETUM. Catherine J. Knes-Maxwell, J.C. Raulston, T.E. Bilderback and Richard Bir.
Louisiana Georgia Tennessee	373-377	FACTORS THAT INFLUENCE TRANSACTION METHODS OF LANDSCAPE PLANT PRODUCERS. Roger Hinson, Steven C. Turner and John Brooker.
Texas Georgia	378-383	ADVERTISING MEDIA SELECTION BY LANDSCAPE PLANT PRODUCERS. Steven C. Turner and Charles R. Hall.
Texas	384-387	MANAGEMENT PRACTICES OF GARDEN CENTER OPERATORS. Charles Hall and John Fielek.

ORIGIN	PAGE NO.	PAPER AND AUTHOR(S)
Kentucky	387-390	FORECASTING GROWER CASH RECEIPTS. Forrest E. Stegelin.

SECTION 12 - WATER MANAGEMENT

Alabama	392-394	INFLUENCE OF SUBIRRIGATION ON POST PRODUCTION LONGEVITY OF POINSETTIAS. C. F. Deneke, B.K. Behe and J. Olive.
Louisiana	394-397	IRRIGATION OF POINSETTIAS AT DIFFERENT FREQUENCIES AND AUTOMATED BY TENSIO- METERS. William L. Brown and Robert J. Edling.
Virginia	398-401	SPRAY STAKE IRRIGATION OF CONTAINER-GROWN PLANTS. William F. Lamack and Alexander X. Niemiera.
South Carolina	402-405	HERBICIDE ANALYSIS IN CONTAINMENT POND WATER AND SEDIMENT. Melissa B. Riley, Renee J. Keese, N. Dwight Camper, and Ted Whitwell.
Louisiana	406-408	ALKALINE WATER ACIDIFICATION REDUCES LEAF CLOSIS OF 'CRYSTAL BOWL YELLOW' PANSY. E.W. Bush

AUTHORS ADDRESSES - Pages 409-417*

*Includes an itemized listing, by state, of each author, their complete mailing address and phone number.