68th Northeastern Weed Science Society Annual Meeting 2014

Proceedings – Volume 68

Philadelphia, Pennsylvania, USA 6 – 9 January 2014

Editor:

Arthur E. Gover

ISBN: 978-1-5108-3339-5

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2014) by Northeastern Weed Science Society (NEWSS) All rights reserved.

Printed by Curran Associates, Inc. (2017)

For permission requests, please contact Northeastern Weed Science Society (NEWSS) at the address below.

Northeastern Weed Science Society (NEWSS) P.O. Box 25 Woodstown, NJ 08098 USA

Phone: 315-209-7580

northeasternweedscience@hotmail.com

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA

Phone: 845-758-0400 Fax: 845-758-2633

Email: curran@proceedings.com Web: www.proceedings.com

Table of Contents

Number in parentheses is the title number. Authors and keywords are indexed by title number.

NEWSS EXECUTIVE COMMITTEE - OFFICERS	12
NEWSS EXECUTIVE COMMITTEE - MEMBERS	13
NEWSS 2014 MEETING PROGRAM COMMITTEES	14
NEWSS COMMITTEES	15
2013 AWARDS, NEWSS/WSSA ANNUAL MEETING	17
2013 NEWSS COLLEGIATE WEED SCIENCE CONTEST	19
CONTRIBUTION OF WEED MANAGEMENT TO BIOENERGY CROP YIELD. L.L. Smith* and J.N. Barney, Virginia Tech, Blacksburg, VA (1)	21
PHYSIOLOGICAL RESPONSE OF FIVE GOOSEGRASS POPULATIONS TO OXADIAZON. M.C. Cox*, E. Collakova, and S.D. Askew, Virginia Tech, Blacksburg, V. (2)	
EVALUATING QUALI-PRO PREEMERGENCE LIQUID FORMULATION HERBICIDES FOR CRABGRASS CONTROL AND SELECTIVITY IN BERMUDAGRASS AND PERENNIAL RYEGRASS TURF. A.N. Smith*, S.D. Askew, and J. Corbett, Virginia Tech, Blacksburg, VA (3)	
INFLUENCE OF STRAW MULCH ON WEED CONTROL IN CUCURBITS. B. Scott*, M.J. VanGessel, and Q. Johnson, University of Delaware, Georgetown, DE (4)	24
COMPUTER VISION: A PROMISING TOOL FOR WEED MANAGEMENT. A. Rana* and J. Derr, Virginia Tech, Virginia Beach, VA (5)	25
SHADE INDUCED DEMOGRAPHIC VARIATION OF THE INVASIVE PLANT JAPANESE STILTGRASS. D.R. Tekiela* and J.N. Barney, Virginia Tech, Blacksburg, VA (6)	26
DOES NATIVE RANGE SIZE PREDICT INVASIVENESS? A TEST OF THE FEDERAL NOXIOUS WEED LIST. C.A. Ervine*, M. Ho, and J.N. Barney, Virginia Tech, Blacksburg, VA (7)	L 27
MESOTRIONE PLUS TRICLOPYR FORMULATIONS FOR WEED CONTROL IN COOL-SEASON TURF. S.S. Rana*, S.D. Askew, J. Borger, T. Harpster, and D. Lycon Virginia Polytechnic Institute and State University, Blacksburg, VA (8)	
PERFORMANCE AND MANAGEMENT OF INTER-SEEDED COVER CROPS IN A TROPICAL SEMI-ARID CROPPING SYSTEM AND THEIR IMPACT ON COTTON YIELDS AND WEEDS. V. Bhaskar*, R. Bellinder, and M.F. Walter, Cornell University, Ithaca, NY (9)	29

IMPACT OF WEED MANAGEMENT SYSTEMS ON GREENHOUSE GAS EMISSIONS. A.M. Knight*, W.J. Everman, S. Reberg-Horton, and S. Hu, North Carolina State University, Raleigh, NC (10)
SPRAY VOLUME AND CONCENTRATION EFFECTS ON BROADLEAF WEED CONTROL WITH FE-HEDTA. J. Neal* and C. Harlow, North Carolina State University, Raleigh, NC (11)
FURTHER ADVANCEMENTS IN PERENNIAL WEED CONTROL WITH FLAME CULTIVATION. K.M. Ghantous* and H. Sandler, UMass Cranberry Station, East Wareham, MA (12)
TOLERANCE OF GIANT REED GROWN AS A BIOENERGY CROP TO APPLICATIONS OF POSTEMERGENCE HERBICIDES. B.A. Hicks* and W.J. Everman, North Carolina State University, Raleigh, NC (13)
DISTRIBUTION OF HERBICIDE RESISTANT ITALIAN RYEGRASS IN NORTH CAROLINA. Z.R. Taylor* and W.J. Everman, North Carolina State University, Raleigh, NC (14)
NOVEL HERBICIDE COMBINATIONS OF HPPD INHIBITORS WITH PLANT GROWTH REGULATORS FOR IMPROVING PALMER AMARANTH CONTROL. R.E. Paynter*, W.J. Everman, J. Burton, and T. Gannon, NCSU, Raleigh, NC (15)
BURNDOWN PROGRAMS FOR TROUBLESOME SOYBEAN WEEDS IN NORTH CAROLINA. L.J. Vincent*, W.J. Everman, R.E. Paynter, Z.R. Taylor, and B.A. Hicks, North Carolina State University, Raleigh, NC (16)
EFFECTS OF GROWTH REGULATOR RATE AND APPLICATION TIMING ON SORGHUM GROWTH AND YIELD. T.E. Besancon*, W.J. Everman, R. Weisz, R. Riar, and M.K. Bansal, North Carolina State University, RALEIGH, NC (17)37
THE BIOCONTROL AGENT AILANTHUS WILT CAN BE TRANSFERRED TO UNINFECTED TREE-OF-HEAVEN USING RAW INOCULUM. T.A. Rung* and A.E. Gover, Penn State University, University Park, PA (18)
POTENTIAL PPO HERBICIDES FOR PROCESSING CUCUMBERS. E. Borgato*, S.A. Mathew, B. Scott, and M.J. VanGessel, University of Delaware, New Wark, DE (19) 39
ENLIST™ SOYBEAN TOLERANCE TO ENLIST DUO™ HERBICIDE. B.D. Olson*, J.M. Ellis, D.C. Ruen, and E.F. Scherder, Dow AgroSciences LLC, Geneva, NY (20) 40
ENHANCING STAKEHOLDER INDENTIFICATION SKILLS WITH NEW METHODS OF DISPLAYING INVASIVE WEEDS. A. Senesac*, Cornell Cooperative Extension, Riverhead, NY (21)
EVALUATING THE INVASIVE POTENTIAL OF MISCANTHUS BIOFEEDSTOCKS. D.P. Matlaga*, N. West, and A. Davis, Susquehanna University, Selinsgrove, PA (22) 42

THE EFFECTS OF RESOURCE TRANSLOCATION ON THE SUCCESS OF THE CLONAL RECRUITS OF JAPANESE KNOTWEED. A.M. Budsock*, C.M. Gowton, and D.P. Matlaga, Susquehanna University, Nazareth, PA (23)
EXAMINING THE INFLUENCE OF DISTURBANCE ON THE RELATIVE SUCCESS OF SEXUAL AND CLONAL RECRUITMENT OF JAPANESE KNOTWEED . C.M. Gowton*, A.M. Budsock, and D.P. Matlaga, Susquehanna University, Selinsgrove, PA (24) 44
KENTUCKY BLUEGRASS RESEEDING INTERVALS FOR AMICARBAZONE. C. Johnston* and P. McCullough, University of Georgia, Griffin, GA (25)45
CULTURAL METHODS FOR THE SUPPRESSION OF ITALIAN RYEGRASS IN WINTER WHEAT. Z.R. Taylor* and W.J. Everman, North Carolina State University, Raleigh, NC (26)
MISCANTHUS X GIGANTEUS: SUSTAINABLE BIOENERGY CROP OR INVADER IN WAITING? L.L. Smith* and J.N. Barney, Virginia Tech, Blacksburg, VA (27)
INVESTIGATING GLYPHOSATE EFFICACY FOR CONTROL OF POKEWEED IN PENNSYLVANIA FIELD CROPS. K.M. Patches* and W.S. Curran, The Pennsylvania State University, University Park, PA (28)
INTERACTION OF ETHEPHON AND METHIOZOLIN ON CREEPING BENTGRASS AND ANNUAL BLUEGRASS PUTTING GREENS. K.A. Venner*, S.D. Askew, and S.J. Koo, Virginia Tech, Blacksburg, VA (29)
WEED MANAGEMENT AND SORGHUM YIELD AS AFFECTED BY POST HERBICIDES. L.J. Vincent*, W.J. Everman, T. Besancon, and R. Riar, North Carolina State University, Raleigh, NC (30)
KNOW THY ENEMY: ASSESSING POISON IVY PERFORMANCE. E. Benhase*, J.J. Jelesko, and J.N. Barney, Virginia Tech, Blacksburg, VA (31)51
MAPPING THE INVASION CLIFF: PROPAGULE PRESSURE, SPECIES TRAITS, AND HABITAT CHARACTERS. M. Ho* and J.N. Barney, Virginia Tech, Blacksburg, VA (32)
TOLERANCE OF SEVERAL LANDSCAPE ORNAMENTALS TO APPLICATIONS OF PENDIMETHALIN AND DIMETHENAMID-P FOR WEED CONTROL. J.J. Vargas*, J.T. Brosnan, G.K. Breeden, and K.M. Kalmowitz, University of Tennessee, Knoxville, TN (33)
COMBINATIONS OF TOPRAMEZONE AND CLOQUINTOCET-MEXYL AGAINST CREEPING BENTGRASS AND GRASSY WEEDS. M. Elmore*, J.T. Brosnan, G.K. Breeden, J.J. Vargas, and G.R. Armel, University of Tennessee, Knoxville, TN (34) 55
NITROGEN FATE IN CORN AND WEEDS AS IMPACTED BY DIFFERENT NITROGEN SOURCES, RATES, AND WEED REMOVAL HEIGHT. A.M. Knight*, W.J.

Everman, D. Jordan, R. Heiniger, and T.J. Smyth, North Carolina State University, Raleigh, NC (35)
COMPARING FORMULATIONS AND TIMINGS OF DITHIOPYR PLUS FLORASULAM FOR CRABGRASS AND BROADLEAF WEED CONTROL IN COOL-SEASON TURF. S.S. Rana*, M.C. Cox, D. Loughner, and S.D. Askew, Virginia Polytechnic Institute and State University, Blacksburg, VA (36)
SWALLOWWORT DISPERSAL: SEED TRACKING UNDER FIELD CONDITIONS. C.A. Stokes*, A. DiTommaso, L.R. Milbrath, C.L. Mohler, and T. Whitlow, Cornell University, Ithaca, NY (37)
CORN, SOYBEAN, AND WHEAT PERFORMANCE IN AN ORGANIC ROTATIONAL NO-TILL SYSTEM IN PENNSYLVANIA. C.L. Keene*, W. Curran, and M. Dempsey, Penn State, State College, PA (38)
MISCANTHUS X GIGANTEUS TOLERANCE TO PRE AND POST HERBICIDE APPLICATIONS. B.A. Hicks*, W.J. Everman, and T. Hamblin, North Carolina State University, Raleigh, NC (39)
INVESTIGATING SYNTHETIC AUXIN COMBINATIONS WITH PLANT GROWTH REGULATORS TO ENHANCE CONTROL OF PALMER AMARANTH. R.E. Paynter*, W.J. Everman, J. Burton, and T. Gannon, NCSU, Raleigh, NC (40)
ECOLOGICAL IMPACTS OF EXOTIC PLANTS: ARE TWO INVADERS WORSE THAN ONE? D.R. Tekiela* and J.N. Barney, Virginia Tech, Blacksburg, VA (41)
THE EFFECT OF LACTOFEN TIMING ON SOYBEAN YIELD AND PHYSIOLOGY. J.M. Orlowski* and C.D. Lee, University of Kentucky, Lexington, KY (42)
COMPARISON OF WEED SUPPRESSION IN MONOCULTURES AND GRASS- LEGUME MIXTURES OF SUMMER ANNUAL FORAGES. K.A. Bybee-Finley*, Cornell University, Ithaca, NY (43)
RESPONSE OF GRAFTED AND NONGRAFTED TOMATO TO PREEMERGENCE HERBICIDES. S. Chaudhari*, K. Jennings, D. Monks, and F. Louws, North Carolina State University, Raleigh, NC (44)
NO-HERBICIDE NO-TILL SOYBEAN IN NEW YORK STATE. J. Liebert* and M. Ryan, Cornell University, Ithaca, NY (45)66
CHEM-LAWN SPRAY GUN VS. BOOM FOR DITHIOPYR PLUS FLORASULAM PERFORMANCE IN LAWN TURF. M.C. Cox*, S.D. Askew, and D. Loughner, Virginia Tech, Blacksburg, VA (46)
SORGHUM WEED MANAGEMENT AS AFFECTED BY PLANT POPULATION, ROW SPACING AND HERBICIDE PROGRAMS. T.E. Besancon*, W.J. Everman, R. Weisz, R. Heiniger, and R. Riar, North Carolina State University, RALEIGH, NC (47)

CURRENT CHALLENGES IN WEED MANAGEMENT IN NORTHEASTERN CRANBERRY PRODUCTION. H. Sandler* and K.M. Ghantous, UMass Cranberry Station, East Wareham, MA (48)69
MESOTRIONE: A NOVEL MODE OF ACTION HERBICIDE FOR USE IN TREE NUT, POME FRUIT, STONE FRUIT, AND CITRUS CROPS K.D. Burnell*, E. Rawls, L. Glasgow, T. Beckett, R.S. Bounds, J.I. Adkins, and D.L. Hammons, Syngenta, Ontario, NY (49)70
POTENTIAL HERBICIDES FOR ROW-MIDDLE WEED CONTROL IN CANTALOUPE AND WATERMELON IN PLASTICULTURE. D. Lingenfelter*, M.J. VanGessel, B. Scott, and Q. Johnson, Penn State University, University Park, PA (50)71
EVALUATION OF PREEMERGENCE HERBICIDE COMBINATIONS TO PREVENT WEED RESISTANCE IN WILD BLUEBERRY FIELDS IN MAINE. D.E. Yarborough* and J.L. Cote, University of Maine, Orono, ME (51)72
EVALUATING HERBICIDE PROGRAMS FOR ZONE-TILL DRY BEANS. R. Bellinder* and J.B. France, Cornell University, Ithaca, NY (52)73
THE IR-4 PROJECT: UPDATE ON WEED CONTROL PROJECTS-FOOD USES. M. Arsenovic*, D. Kunkel, J. Baron, and D. Carpenter, IR-4 Project, Princeton, NJ (53) 74
ROUNDUP READY LEARNING XPERIENCE - A NEW TRAINING TOOL. T.D. White*, S. Allen, S. Seifert-Higgins, M. Vigna, and J. Sandbrink, Monsanto Company, St. Louis, MO (54)75
BICYCLOPYRONE FOR PRE- AND POSTEMERGENCE WEED CONTROL IN CORN. E. Hitchner*, T.H. Beckett, S.E. Cully, R.D. Lins, J.P. Foresman, and G.D. Vail, Syngenta, Woodstown, NJ (55)76
ENHANCED WEED MANAGEMENT SOLUTIONS WITH MGI HERBICIDE-TOLERANT SOYBEANS. R. Jain*, D.E. Bruns, T.H. Beckett, B.L. Wilkinson, and B. Erdahl, Syngenta Crop Protection, Vero Beach, FL (56)
BICYCLOPYRONE, A NEW HERBICIDE FOR IMPROVED WEED CONTROL IN CORN. G.D. Vail*, S.E. Cully, R.D. Lins, and J.P. Foresman, Syngenta, Greensboro, NC (57)78
COVER CROP ADOPTION IMPACTING HERBICIDE SELECTION WITH POTENTIAL CARRYOVER CONCERNS. W. Curran* and D. Lingenfelter, Penn State, University Park, PA (58)
PALMER AMARANTH MANAGEMENT IN HPPD, GLUFOSINATE, AND GLYPHOSATE-TOLERANT SOYBEAN. W.J. Everman*, M. Rosemond, and J. Allen, North Carolina State University, Raleigh, NC (59)80

DICAMBA FORMULATION ADVANCEMENTS. D.J. Mayonado*, J. Sandbrink, A. Macinnes, J.W. Hemminghaus, J.N. Travers, S. Seifert-Higgins, and S.E. Curvey, Monsanto, Salisbury, MD (60)	1
EARLY SPRING APPLICATIONS OF INDAZIFLAM ON CONTAINER GROWN ORNAMENTALS. S. Barolli*, Imperial Nurseries, Granby, CT (61)	2
RICE HULLS FOR WEED CONTROL IN CONTAINER CROPS. J. Altland*, USDA-ARS, Wooster, OH (62)	3
LIVERWORT CONTROL IN NURSERY CROPS. J. Derr*, Virginia Tech, Virginia Beach, VA (63)	5
COMPARATIVE LONGEVITY OF PREEMERGENCE WEED CONTROL IN CONTAINERS WITH INDAZIFLAM. J. Neal* and C. Harlow, North Carolina State University, Raleigh, NC (64)	6
TITRATED RATES OF DIMETHENAMID-P FORMULATIONS CONTROL COOL- AND WARM-SEASON WEED SPECIES. K.E. Kalmowitz* and J. Neal, BASF Corp., Raleigh NC (65)	,
LIVERWORT MANAGEMENT WITH POSTEMERGENCE HERBICIDES IN CONTAINER GROWN ORNAMENTALS. A. Senesac* and I. Tsontakis-Bradley, Cornel Cooperative Extension, Riverhead, NY (66)	
UPDATE ON 2013 WEED SCIENCE RESEARCH IN THE IR-4 ORNAMENTAL HORTICULTURE PROGRAM. C. Palmer*, J. Baron, E. Vea, and E. Lurvey, IR-4 Project, Princeton, NJ (67)	9
BENTGRASS RESPONSE TO TOPRAMEZONE. K.A. Venner*, S.D. Askew, M.C. Cox and K. Miller, Virginia Tech, Blacksburg, VA (68)	
THE MOBILE WEED MANUAL: A NEW RESOURCE FOR MANAGERS OF TURFGRASS AND ORNAMENTALS. M. Elmore*, J.T. Brosnan, G.R. Armel, G.K. Breeden, and J.J. Vargas, University of Tennessee, Knoxville, TN (69)	1
ETHEPHON ABSORPTION AND DISTRIBUTION ATTRIBUTED TO ANNUAL BLUEGRASS SEEDHEAD SUPPRESSION. S. Sidhu* and P. McCullough, University of Georgia, Griffin, GA (70)	
EFFICACY OF DITHIOPYR FOR POSTEMERGENCE SMOOTH CRABGRASS CONTROL IN WARM AND COOL-SEASON GRASSES. H. Jordan* and P. McCullough, University of Georgia, Griffin, GA (71)	3
EVALUATION OF F6875 FOR SMOOTH CRABGRASS CONTROL IN BERMUDAGRASS AND TALL FESCUE. C. Johnston*, P. McCullough, and B. Walls, University of Georgia, Griffin, GA (72)	4
RECONSTRUCTING A PRIVET INVASION USING GENETIC, AGE, AND SPATIAL DATA. W. Zhao, A. Michel, and J. Cardina*, Ohio State University, Wooster, OH (73) 9	5

ASSESSING HAIRY VETCH SEED BANK PERSISTENCE AND POTENTIAL FOR MANAGEMENT. J. Wallace*, S. Mirsky, W. Curran, and B. Crockett, Penn State University, University Park, PA (74)
BIOMASS ALLOCATION OF TWO SWALLOWWORT SPECIES IN CONTRASTING COMPETITIVE ENVIRONMENTS. A. DiTommaso*, Z. Qin, M. Ho, C.L. Mohler, and K.M. Averill, Cornell University, Ithaca, NY (75)
ON THE ECOLOGY OF TREE SPECIES AT 50 HOME SITES AT POWHATAN PARK, MONTVALE, NEW JERSEY. R. Stalter* and M.D. O'Donovan, St. Johns University, Queens, NY (76)
SIMULATING INVASION ESTABLISHMENT AND SPREAD ACROSS A HETEROGENEOUS ENVIRONMENT WITH INVDER. D.R. Tekiela*, E. Dollete, M. Ho, and J.N. Barney, Virginia Tech, Blacksburg, VA (77)
ECOLOGICAL STUDIES ON DROUGHT TOLERANCE BY INVASIVE PLANT SPECIES. S.L. Young*, University of Nebraska-Lincoln, North Platte, NE (78)
JAPANESE KNOTWEED - WHY DETAILS ARE IMPORTANT. T.W. Curran*, retired, US Army Corps of Engineers, Huntington, WV (79)
KNOTWEED - UNINTENDED CONSEQUENCES ON A GRAND SCALE. T.W. Curran*, retired, US Army Corps of Engineers, Huntington, WV (80)
PRELIMINARY RESULTS: CHEMICAL CONTROL OF WILD CHERVIL ON ROADSIDES. B.F. McDonnell*, R.J. Hodge, and D.C. Gatch, National Park Service, Bushkill, PA (81)
SURVEY, DECISION MAKING, AND MANAGEMENT RELATED TO MONOECIOUS HYDRILLA IN A NATURAL CAROLINA BAY LAKE, LAKE WACCAMAW. R.J. Richardson*, North Carolina State University, Raleigh, NC (82)
2014 ACTIVITY REPORT FOR THE MASSACHUSETTS INVASIVE PLANT ADVISORY GROUP. R. Prostak*, University of Massachusetts-Amherst, Amherst, MA (83)
FURTHER INVESTIGATIONS INTO HERBICIDE SELECTION AND APPLICATION TIMING TO SUPPRESS JAPANESE STILTGRASS. A.E. Gover*, J.M. Johnson, D.A. Despot, and J.C. Sellmer, Penn State University, University Park, PA (84)
COMPARISON OF HERBICIDE MIXTURES FOR CONTROL OF MORROW'S HONEYSUCKLE. J.M. Johnson*, D.A. Despot, and J.C. Sellmer, Penn State University, University Park, PA (85)
MEASURING THE ECOLOGICAL IMPACT OF INVASIVE PLANT MANAGEMENT IN SUCCESSIONAL PLANT COMMUNITIES ALONG CONNECTICUT'S COAST. C.H. Douglass*, Trinity College, Hartford, CT (86)

USING RESEARCH DRIVEN CRITERIA FOR DEVELOPMENT OF A LON AQUATIC PLANT MANAGEMENT PLAN: REVITALIZATION AFTER 15 YE MANAGEMENT ON LAKE GASTON. B. Hartis* and R.J. Richardson, North State University, Raleigh, NC (87)	EARS OF Carolina
MODELING THE POTENTIAL GEOGRAPHIC DISTRIBUTION OF HYDRIL NORTH AMERICA AND BEYOND. B. Hartis* and R.J. Richardson, North C State University, Raleigh, NC (88)	Carolina
CORN RESPONSE TO SOIL-APPLIED ALS-INHIBITING HERBICIDES. M VanGessel*, Q. Johnson, and B. Scott, University of Delaware, Georgetown	n, DE (89)
DANDELION MANAGEMENT IN ZONE-TILLAGE GLYPHOSATE-RESISTAND SOYBEANS. R.R. Hahn*, R.J. Richtmyer III, and J.M. Orlowski, Corne Ithaca, NY (90)	ANT CORN ell University,
MANAGING A FEED GRAIN INITIATIVE: POINTERS AND PITFALLS. W.JR. Weisz, and R. Heiniger, North Carolina State University, Raleigh, NC (92)	•
ENLIST E3™ SOYBEAN TOLERANCE AND WEED CONTROL WITH PREFOLLOWED BY POST HERBICIDE PROGRAMS. B.D. Olson*, D.C. Ruen, D.M. Simpson, and J.A. Huff, Dow AgroSciences LLC, Geneva, NY (93)	, J.M. Ellis,
ENGENIA [™] HERBICIDE AS A WEED MANAGEMENT TOOL. J. O'Barr*, V. Thomas, J. Frihauf, S. Bowe, and L. Bozeman, BASF Corporation, Humme (94)	lstown, PA
CURRENT AND FUTURE STEWARDSHIP TRAINING FOR ENGENIA [™] H. Bozeman*, R.E. Wolf, S. Wilson, and D. Pepitone, BASF Corporation, ReTriangle Park, NC (95)	esearch
RED CLOVER VS. HAIRY VETCH: WEED SUPPRESSION, CROP PERFORM PROFITABILITY IN A NO-TILL WHEAT-CORN ROTATION. E.M. Sny Curran, H.D. Karsten, and G.M. Malcolm, The Pennsylvania State Universit PA (96)	der*, W.S. ty, Altoona,
MESOTRIONE AND PRODIAMINE COMBINATIONS FOR SMOOTH CRA CONTROL IN TALL FESCUE. J. Yu* and P. McCullough, University of Geo GA (98)	orgia, Griffin,
FLUCARBAZONE-SODIUM SELECTIVITY FOR PERENNIAL RYEGRASS IN BERMUDAGRASS AND KENTUCKY BLUEGRASS. R. Singh*, S. Sidhu and P. McCullough, University of Georgia, Griffin, GA (99)	ı, T. Reed,
A SURVEY OF GOLF COURSES PARTICIPATING IN THE METHIOZOLIN EXPERIMENTAL USE PERMIT PROGRAM. S.D. Askew*, K.M. Han, and S. Virginia Tech, Blacksburg, VA (100)	S.J. Koo,

POSTEMERGENCE AND RESIDUAL CRABGRASS CONTROL WITH CAVALCAI PQ IN COOL-SEASON TURF. A.N. Smith*, S.D. Askew, and G.S. Hackman, Virgir Tech, Blacksburg, VA (101)	nia
THE EFFECTS OF TOPRAMEZONE ON CONTROLLING BERMUDAGRASS. C. Mansue* and J. Murphy, Rutgers University, New Brunswick, NJ (102)	123
PREEMERGENT CONTROL OF SILVERY THREADMOSS PROPAGULES WITH HERBICIDES, FUNGICIDES, AND PLANT GROWTH REGULATORS. A. Post*, S. Askew, and D.S. McCall, Oklahoma State University, Stillwater, OK (103)	.D.
NEWSS YEAR-END FINANCIAL STATEMENT, 2012	125
NEWSS YEAR END REPORT 2012	126
2013 NEWSS BUSINESS MEETING	141
NEWSS AWARD OF MERIT	145
NEWSS FELLOW	147
NEWSS OUTSTANDING RESEARCHER AWARD	148
NEWSS OUTSTANDING EDUCATOR AWARD	149
M. GARRY SCHNAPPINGER SERVICE RECOGNITION AWARD	149
NEWSS SERVICE RECOGNITION AWARD	149
OUTSTANDING STUDENT PAPER CONTEST	150
DR. ROBERT D. SWEET OUTSTANDING GRADUATE STUDENT	152
NEWSS COLLEGIATE WEED CONTEST WINNERS	153
INNOVATOR OF THE YEAR	160
OUTSTANDING APPLIED RESEARCH IN FOOD AND FEED CROPS	161
OUTSTANDING APPLIED RESEARCH IN TURF, ORNAMENTALS, AND VEGETATION MANAGEMENT	161
OUTSTANDING PAPER AWARDS	162
NEWSS MEMBERSHIP DIRECTORY	167
AUTHOR INDEX	183
KEYWORD INDEX	188