

66th Annual Meeting of the Southern Weed Science Society 2013

Biotechnology & Weed Science: The Road We've Traveled Since 1984

**Houston, Texas, USA
28-30 January 2013**

Editors:

Theodore M. Webster

ISBN: 978-1-62748-654-5

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© (2013) by the Southern Weed Science Society (SWSS)
All rights reserved.

Printed by Curran Associates, Inc. (2013)

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

Southern Weed Science Society (SWSS)
1508 West University Avenue
Champaign, IL 61821-3133

Phone: (217) 352-4212

Fax: (217) 352-4241

raschwssa@aol.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: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

Table of Contents

Table of Contents.....	ii
Preface	xxii
Regulations and Instructions for Papers and Abstracts.....	xxiii
SWSS Presidential Address	xxv
2013 Weed Scientist of the Year	xxviii
Previous Winners of Weed Scientist of the Year	xxix
2013 Outstanding Young Weed Scientist-Academia	xxxi
2013 Outstanding Young Weed Scientist- Industry.....	xxxii
Previous Winners of Outstanding Young Weed Scientist	xxxiii
2013 Outstanding Educator Award	xxxv
Previous Winners of the Outstanding Educator Award	xxxvi
2013 Outstanding Graduate Student Award (MS)	xxxvii
Previous Winners of the Outstanding Graduate Student Award (M.S.)	xxxviii
2013 Outstanding Graduate Student Award (PhD).....	xxxix
Previous Winners of the Outstanding Graduate Student Award (Ph.D).....	xl
2013 Distinguished Service Award from Industry.....	xli
2013 Distinguished Service Award from Academia.....	xlii
Previous Winners of the Distinguished Service Award	xliii
Past Presidents of the Southern Weed Science Society	xlvi
List of Committee Members for 2013	xlvii
Minutes of the SWSS Board of Directors Meeting	li
Editor’s Report	lxxi
Business Manager’s Report	lxxii
Net Worth: Southern Weed Science Society	lxxiii
SWSS Cash Flow Report for Fiscal year 2011-12.....	lxxiv
Director of Science Policy Report.....	lxxv
2012 Endowment Board Meeting	lxxvii
2013 Endowment Board Meeting	lxxix
Necrologies	lxxxiv

EFFECT OF ORGANIC MATTER ON HYBRID BERMUDAGRASS INJURY WITH PREEMERGENCE HERBICIDES IN SAND-BASED ROOTZONES. P. A. Jones*, J. Brosnan, D. A. Kopsell, G. K. Breeden; University of Tennessee, Knoxville, TN (1).....	1
MOWING HEIGHT EFFECTS ON PREEMERGENCE HERBICIDE EFFICACY FOR SMOOTH CRABGRASS CONTROL. S. M. Breeden*, D. Farnsworth, J. Brosnan, G. K. Breeden; University of Tennessee, Knoxville, TN (2)	2
TOPRAMEZONE FOR CRABGRASS AND GOOSEGRASS CONTROL IN COOL SEASON TURF. A. Smith* ¹ , M. Cox ² , S. D. Askew ¹ , K. Miller ³ ; ¹ Virginia Tech, Blacksburg, VA, ² Virginia Tech, Blacksburg, VA, ³ BASF, Richmond, VA (3)	3
APPLICATION TIMING OF AMICARBAZONE AND METHIOZOLIN INFLUENCES EFFICACY FOR ANNUAL BLUEGRASS CONTROL IN CREEPING BENTGRASS GOLF GREENS. P. McCullough* ¹ , D. Gomez de Barreda ² , J. Yu ¹ ; ¹ University of Georgia, Griffin, GA, ² Polytechnic Univ. of Valencia, Valencia, Spain (4)	4
GERMINATION AND HERBICIDE RESPONSE OF CARPETGRASS. G. S. F Souza* ¹ , J. S. McElroy ² , D. Martins ¹ , M. L. Flessner ³ , J. N. Toombs ² ; ¹ Universidade Estadual Paulista - UNESP, Botucatu, Brazil, ² Auburn University, Auburn, AL, ³ Auburn University, Auburn University, AL (5)	5
GOOSEGRASS AND SMOOTH CRABGRASS CONTROL WITH INDAZIFLAM AND OXIDIAZON PROGRAMS. K. Venner* ¹ , M. Cox ² , S. D. Askew ¹ , J. Hope ³ ; ¹ Virginia Tech, Blacksburg, VA, ² Virginia Tech, Blacksburg, VA, ³ BayerCropScience, Raleigh, NC (6)	6
EVALUATION OF WEED CONTROL SPECTRUM OF CANADIAN BIOHERBICIDE PHOMA MACROSTOMA. J. M. Smith* ¹ , B. Wherley ¹ , P. A. Baumann ² , S. Falk ³ ; ¹ Texas A&M University, College Station, TX, ² Texas AgriLife Extension, College Station, TX, ³ The Scotts Company, Marysville, OH (7).....	7
EFFICACY OF CELSIUS AND TRIBUTE TOTAL FOR ANNUAL BLUEGRASS CONTROL IN BERMUDAGRASS. J. Yu*, P. McCullough; University of Georgia, Griffin, GA (8)	8
ALTERNATIVES TO METSULFURON FOR THE POSTEMERGENCE CONTROL OF BAHIAGRASS. C. M. Straw*, J. A. Hoyle, G. M. Henry; University of Georgia, Athens, GA (9)	9
ANNUAL BLUEGRASS CONTROL IN BENTGRASS GOLF GREEN WITH METHIOZOLIN. K. Koh*, J. Moss; Oklahoma State University, Stillwater, OK (10)	10
EVALUATION OF APPLICATION TIMING OF QUINCLORAC PLUS CARFENTRAZONE DURING TALL FESCUE ESTABLISHMENT. S. Sidhu*, P. McCullough; University of Georgia, Griffin, GA (11).....	11
ADVANCES IN IDENTIFYING AN EFFECTIVE ALTERNATIVE TO METHYL BROMIDE IN TURFGRASS SYSTEMS. J. Unruh*, B. J. Brecke; University of Florida, Jay, FL (12)	12
COMMON CARPETGRASS (<i>AXONOPUS FISSIFOLIUS</i>) CONTROL IN A BERMUDAGRASS ROUGH. C. M. Straw*, J. A. Hoyle, G. M. Henry; University of Georgia, Athens, GA (13)	13
GLYPHOSATE TOLERANT PERENNIAL RYEGRASS CULTIVARS: TOLERANCE DETERMINATION. M. L. Flessner* ¹ , J. S. McElroy ² , G. R. Wehtje ² ; ¹ Auburn University, Auburn University, AL, ² Auburn University, Auburn, AL (14)	14
EFFICACY OF TOPRAMEZONE FOR BERMUDAGRASS CONTROL IN CENTIPEDEGRASS. C. Johnston* ¹ , P. McCullough ² ; ¹ University of Georgia, Athens, GA, ² University of Georgia, Griffin, GA (15).....	15
LATE SEASON COMMON LESPEDEZA (<i>LESPEDEZA STRIATA</i>) MANAGEMENT IN CENTIPEDEGRASS. R. E. Strahan*, J. Beasley; LSU AgCenter, Baton Rouge, LA (16)	16
SEQUENTIAL APPLICATIONS FOR THE POSTEMERGENCE CONTROL OF VIRGINIA BUTTONWEED. J. A. Hoyle*, C. M. Straw, G. M. Henry; University of Georgia, Athens, GA (17)	17

MORPHOLOGICAL DIFFERENCES AMONG BAHIAGRASS HYBRIDS COLLECTED IN GEORGIA. J. A. Hoyle*, C. M. Straw, G. M. Henry; University of Georgia, Athens, GA (18)	18
TOLERANCE OF 'DURANA' CLOVER AND FESCUE TO HERBICIDES. M. L. Zaccaro*, J. D. Byrd, J. M. Taylor; Mississippi State University, Mississippi State, MS (19)	19
EFFICACY OF AMINOCYCLOPYRACHLOR HERBICIDE PRODUCTS ON PASTURE AND FORAGE WEEDS. N. Barksdale*, J. D. Byrd, J. M. Taylor; Mississippi State University, Mississippi State, MS (20).....	20
TOLERANCE OF SUB-TROPICAL AND TROPICAL FORAGES TO AMINOCYCLOPYRACHLOR. D. G. Abe* ¹ , B. A. Sellers ² , J. Ferrell ¹ ; ¹ University of Florida, Gainesville, FL, ² University of Florida, 33865, FL (21).....	21
ABSORPTION AND FATE OF AMINOCYCLOPYRACHLOR IN TALL FESCUE. E. T. Parker* ¹ , G. R. Wehtje ¹ , J. S. McElroy ¹ , A. J. Price ² , P. McCullough ³ ; ¹ Auburn University, Auburn, AL, ² USDA-ARS, Auburn, AL, ³ University of Georgia, Griffin, GA (22).....	22
RESPONSE OF MOWING ON THE EFFICACY OF TANK-MIXTURES FOR THE CHEMICAL CONTROL OF KUDZU. G. M. Henry*, J. A. Hoyle, C. M. Straw; University of Georgia, Athens, GA (23)	23
EVALUATION OF GLYPHOSATE PLUS INDAZIFLAM FOR RESIDUAL WEED CONTROL IN NON-CROP AREAS. T. Reed*, P. McCullough; University of Georgia, Griffin, GA (24)	24
ITCHGRASS [<i>ROTTBOELLIA COCHINCHINENSIS</i> (LOUR.) W.D. CLAYTON] CONTROL ON A HIGHWAY RIGHT-OF-WAY IN MS. V. L. Maddox* ¹ , J. D. Byrd ¹ , D. Thompson ² ; ¹ Mississippi State University, Mississippi State, MS, ² Mississippi Department of Transportation, Jackson, MS (25).....	25
POSTEMERGENCE CONTROL OPTIONS OF PALMER AMARANTH ON DITCHBANKS. Z. T. Hill*, J. K. Norsworthy, D. B. Johnson; University of Arkansas, Fayetteville, AR (26).....	26
RESPONSE OF SPROUTING MONOECIOUS HYDRILLA TURIONS TO VARIOUS STRESS REGIMES. R. J. Richardson*; North Carolina State University, Raleigh, NC (27).....	27
PROPOSED DICAMBA APPLICATION REQUIREMENTS FOR ROUNDUP READY® XTEND CROP SYSTEMS. J. Sandbrink* ¹ , J. N. Travers ² , C. Kamienski ¹ , J. Willis ¹ ; ¹ Monsanto, St. Louis, MO, ² Monsanto Co., St. Louis, MO (28).....	28
SEQUENTIAL APPLICATIONS VERSUS TANK MIXES OF GLYPHOSATE AND GLUFOSINATE IN COTTON. C. W. Cahoon*, A. C. York, D. L. Jordan, W. J. Everman; North Carolina State University, Raleigh, NC (29)	29
MANAGING PALMER AMARANTH WITH RESIDUAL HERBICIDES IN ROUNDUP READY FLEX COTTON. G. B. Montgomery*, H. M. Edwards, J. A. Bond, S. A. Shinkle, T. W. Eubank; Mississippi State University, Stoneville, MS (30).....	30
ENVIRONMENTAL AND AGRONOMIC FACTORS AFFECTING INJURY TO COTTON FROM SOIL-APPLIED HERBICIDES. B. W. Schrage*, J. K. Norsworthy, D. B. Johnson; University of Arkansas, Fayetteville, AR (31).....	31
ENLIST WEED MANAGEMENT SYSTEMS IN TEXAS HIGH PLAINS COTTON. J. D. Reed* ¹ , W. Keeling ¹ , P. A. Dotray ¹ , J. Lee ² ; ¹ Texas AgriLife Research, Lubbock, TX, ² Dow AgroSciences, Lubbock, TX (32)	32
MANAGING PALMER AMARANTH IN COTTON WITH RESIDUAL HERBICIDES. J. W. Cave* ¹ , W. Keeling ² , P. A. Dotray ² , J. D. Reed ² ; ¹ Texas A&M Agrilife Research, Lubbock, TX, ² Texas AgriLife Research, Lubbock, TX (33).....	33
PREEMERGENCE HERBICIDE PLACEMENT AND WIDE VS. NARROW STRIP TILLAGE, IMPLICATIONS FOR PIGWEED CONTROL IN REDUCED-TILLAGE COTTON. J. N. Toombs* ¹ , A. J. Price ² , J. S. McElroy ¹ , C. D. Monks ¹ ; ¹ Auburn University, Auburn, AL, ² USDA-ARS, Auburn, AL (34)	34

SELECTED HERBICIDE PROGRAMS FOR BROADLEAF WEED CONTROL IN DICAMBA-TOLERANT COTTON. C. H. Sanders* ¹ , D. D. Joseph ¹ , M. W. Marshall ² ; ¹ Clemson University, Clemson, SC, ² Clemson University, Blackville, SC (35)	35
CONTROL OF PALMER AMARANTH WITH SEQUENTIAL HERBICIDE PROGRAMS. D. Z. Reynolds* ¹ , D. M. Dodds ¹ , T. H. Dixon ¹ , C. A. Samples ¹ , A. Mills ² ; ¹ Mississippi State University, Mississippi State, MS, ² Monsanto, Collierville, TN (36).....	36
RESULTS FROM YEARS ONE AND TWO OF A LONG-TERM STUDY DESIGNED TO DETERMINE WEED POPULATION DYNAMICS IN DICAMA-TOLERANT COTTON. D. L. Jordan* ¹ , A. C. York ¹ , W. J. Everman ¹ , S. Bollman ² , J. K. Soteres ² ; ¹ North Carolina State University, Raleigh, NC, ² Monsanto Company, St. Louis, MO (37).....	37
COMPARISON OF FLURIDONE- AND FLUMIOXAZIN-BASED PREPLANT BURNDOWN PROGRAMS IN GLUFOSINATE-TOLERANT COTTON. M. W. Marshall* ¹ , A. C. York ² , A. S. Culpepper ³ ; ¹ Clemson University, Blackville, SC, ² North Carolina State University, Raleigh, NC, ³ University of Georgia, Tifton, GA (38).....	38
COTTON TOLERANCE AND WEED MANAGEMENT WITH WARRANT. T. S. Morris* ¹ , P. A. Dotray ² , W. Keeling ² , J. D. Reed ² ; ¹ Texas A&M Agrilife Research, Lubbock, TX, ² Texas AgriLife Research, Lubbock, TX (39)	39
POST CORN HARVEST PALMER AMARANTH CONTROL. R. Hayes* ¹ , W. Crowe ² , L. E. Steckel ¹ ; ¹ University of Tennessee, Jackson, TN, ² University of Tennessee, Martin, TN (40).....	40
IMPACT OF N SOURCE, RATE AND WEED REMOVAL TIME ON N AVAILABILITY IN CORN. A. M. Knight*, W. J. Everman, D. L. Jordan, R. Heiniger, T. J. Smyth; North Carolina State University, Raleigh, NC (41)	41
WEED CONTROL PROGRAMS IN SORGHUM CONTAINING DUPONT™ INZENT™ Z HERBICIDE TOLERANCE TRAIT. R. N. Rupp* ¹ , E. P. Castner ² , R. M. Edmund ³ , M. T. Edwards ⁴ , C. R. Medlin ⁵ , D. Saunders ⁶ ; ¹ DuPont Crop Protection, Edmond, OK, ² DuPont Crop Protection, Weatherford, TX, ³ DuPont Crop Protection, Little Rock, AR, ⁴ E. I. DuPont, Pierre Part, LA, ⁵ DuPont Crop Protection, Paradise, TX, ⁶ DuPont, Johnston, IA (42)	42
RATES AND TIMING OF DESICCANT APPLICATION FOR SORGHUM IN NC. R. Riar*, W. J. Everman; North Carolina State University, Raleigh, NC (43).....	43
RECOVERY AND YIELD POTENTIAL OF CONVENTIONAL AND HYBRID RICE FOLLOWING INJURY FROM PRE-APPLIED COMMAND. S. S. Rana*, J. K. Norsworthy, D. B. Johnson, Z. T. Hill, D. S. Riar, B. W. Schrage, M. T. Bararpour, H. D. Bell; University of Arkansas, Fayetteville, AR (44)	44
BISPYRIBAC-SODIUM TOXICITY ON RICE AND PHYSIOLOGICAL ADAPTATION UNDER COLD STRESS. L. F. Martini* ¹ , J. A. Noldin ² , N. R. Burgos ³ , L. A. Avila ¹ , J. P. Refatti ¹ , L. B. Piveta ¹ , I. M. Pacheco ¹ ; ¹ Universidade Federal de Pelotas, Pelotas - RS, Brazil, ² EPAGRI, Itajaí½ - SC, Brazil, ³ University of Arkansas, Fayetteville, AR (45)	45
RESPONSE OF CONVENTIONAL AND IMIDAZOLINONE-RESISTANT RICE TO ACETOLACTATE SYNTHASE-INHIBITING HERBICIDES IN MIXTURE WITH MALATHION. D. S. Riar*, J. K. Norsworthy, D. B. Johnson, H. D. Bell, S. S. Rana, B. W. Schrage; University of Arkansas, Fayetteville, AR (46).....	46
DIFFERENTIAL GENE EXPRESSION IN RICE AND RED RICE SEEDLINGS EXPOSED TO COLD AND SEEDING DEPTH STRESS. C. Bevilacqua* ¹ , N. R. Burgos ¹ , A. Pereira ¹ , P. D. Zimmer ² ; ¹ University of Arkansas, Fayetteville, AR, ² Universidade de Pelotas, Pelotas, Brazil (47).....	47
PLANTING DATES EFFECT ON THE YIELD AND DYNAMICS OF RED RICE (<i>ORYZA SATIVA</i>). G. M. Sartori ¹ , E. Marchesan ¹ , G. M. Telo* ² , S. A. Senseman ² , C. Azevedo ¹ , L. Coelho ¹ , M. Oliveira ¹ ; ¹ Federal University of Santa Maria, Santa Maria, Brazil, ² Texas A&M University, College Station, TX (48).....	48

THE EFFICACY OF RICEBEAUX AND IMAZETHAPYR TIMINGS ON THE CONTROL OF RED RICE (<i>ORYZA SATIVA L.</i>) IN IMIDAZILINONE-TOLERANT RICE (<i>O. SATIVA</i>). T. N. Jones* ¹ , S. A. Senseman ¹ , G. N. McCauley ² , E. R. Camargo ¹ , B. M. McKnight ¹ ; ¹ Texas A&M University, College Station, TX, ² Texas A&M Agrilife Research, Eagle Lake, TX (49)	49
TIMING OF HERBICIDE PROGRAMS FOR BROADLEAF AND SEDGE WEED CONTROL IN RICE. N. D. Fickett*, E. P. Webster, B. M. McKnight, J. C. Fish; LSU AgCenter, Baton Rouge, LA (50)	50
THE IMPACT OF VOLUNTEER RICE INFESTATION ON RICE YIELD AND GRAIN QUALITY. V. Singh* ¹ , N. R. Burgos ¹ , S. Singh ¹ , R. A. Salas ¹ , D. R. Gealy ² ; ¹ University of Arkansas, Fayetteville, AR, ² USDA-ARS, Stuttgart, AR (51)	51
NON-CHEMICAL STRATEGIES FOR HERBICIDE-RESISTANCE MANAGEMENT IN BARNYARDGRASS IN RICE. M. V. Bagavathiannan* ¹ , J. K. Norsworthy ¹ , K. L. Smith ² , P. Neve ³ ; ¹ University of Arkansas, Fayetteville, AR, ² University of Arkansas-Extension, Monticello, AR, ³ University of Warwick, Warwick, England (52)	52
PALMER AMARANTH AND PITTED MORNINGGLORY CONTROL USING VARIOUS COMBINATIONS OF 2,4-D, GLYPHOSATE, AND GLUFOSINATE. D. D. Joseph* ¹ , C. H. Sanders ¹ , M. W. Marshall ² ; ¹ Clemson University, Clemson, SC, ² Clemson University, Blackville, SC (53)	53
ITALIAN RYEGRASS CONTROL WITH FALL RESIDUAL HERBICIDES. S. A. Shinkle*, J. A. Bond, T. W. Eubank, H. M. Edwards, G. B. Montgomery; Mississippi State University, Stoneville, MS (54)	54
RESPONSE OF RAGWEED PARTHENIUM (<i>PARTHENIUM HYSTEROPHORUS</i>) TO PYRAFLUFEN ETHYL. J. V. Fernandez* ¹ , D. C. Odera ² , G. E. MacDonald ¹ , J. Ferrell ¹ ; ¹ University of Florida, Gainesville, FL, ² University of Florida, Belle Glade, FL (55)	55
ENHANCED CONTROL OF <i>CONYZA</i> SPP. WITH SAFLUFENACIL PLUS LOW RATE COMBINATIONS WITH QUINCLORAC, DICAMBA AND SULFONYLUREA HERBICIDES. P. H. Munger ¹ , K. E. Keller* ² , G. W. Oliver ³ , S. K. Bangarwa ⁴ , J. S. Harden ² , S. J. Bowe ² ; ¹ BASF, Dinuba, CA, ² BASF, Research Triangle Park, NC, ³ BASF, Apex, NC, ⁴ BASF, Fresno, CA (56).....	56
EVALUATION OF PREEMERGENCE HERBICIDES IN PEANUT. T. A. Baughman* ¹ , H. Curry ² , P. A. Dotray ³ , W. Grichar ⁴ ; ¹ Oklahoma State University, Ardmore, OK, ² Oklahoma State University, Stillwater, OK, ³ Texas AgriLife Research, Lubbock, TX, ⁴ Texas AgriLife Research, Yoakum, TX (57).....	57
IMPACT OF POST EMERGENCE APPLICATIONS OF 2,4-D AND DICAMBA ON PEANUT. S. Berger* ¹ , J. Ferrell ¹ , R. G. Leon ² ; ¹ University of Florida, Gainesville, FL, ² University of Florida, Jay, FL (58)	58
PEANUT RESPONSE TO 2,4-DB + LACTOFEN COMBINATIONS. J. Ferrell* ¹ , R. G. Leon ² ; ¹ University of Florida, Gainesville, FL, ² University of Florida, Jay, FL (59).....	59
WEED CONTROL AND PEANUT TOLERANCE TO ACETOCHLOR. W. Grichar* ¹ , P. A. Dotray ² , L. M. Etheredge ³ ; ¹ Texas AgriLife Research, Yoakum, TX, ² Texas AgriLife Research, Lubbock, TX, ³ Monsanto, Llano, TX (60).....	60
CRITICAL PERIOD OF WEED CONTROL IN SNAP BEAN IN SOUTHERN FLORIDA. D. C. Odera*, A. L. Wright; University of Florida, Belle Glade, FL (61)	61
S-METOLACHLOR AND RAINFALL ALTERS SWEETPOTATO GROWTH AND STORAGE ROOT DEVELOPMENT. I. A. Abukari* ¹ , M. W. Shankle ² , R. K. Reddy ¹ , T. F. Garrett ² ; ¹ Mississippi State University, Starkville, MS, ² Mississippi State University, Pontotoc, MS (62)	62
USE OF CULTIVATION AND GLYPHOSATE DURING SUMMER FALLOW PERIOD FOR NUTSEGE (<i>CYPERUS SPP.</i>) CONTROL IN BELL PEPPER (<i>CAPSICUM ANNUUM L.</i>). M. R. Miller* ¹ , P. J. Dittmar ² ; ¹ Univeristy of Florida, Gainesville, FL, ² University of Florida, Gainesville, FL (63)	63

TOLERANCE OF VARIOUS LANDSCAPE ORNAMENTALS TO POSTEMERGENCE APPLICATIONS OF AMICARBAZONE AND FLUCARBAZONE. T. Campbell*, J. Brosnan, J. J. Vargas; University of Tennessee, Knoxville, TN (64)	64
ENERGY BEETS IN GEORGIA: A POTENTIAL WINTER CASH CROP. T. M. Webster* ¹ , T. L. Grey ² , B. T. Scully ¹ , R. F. Davis ¹ ; ¹ USDA-ARS, Tifton, GA, ² University of Georgia, Tifton, GA (65)	65
GLYPHOSATE-RESISTANT PALMER AMARANTH CONTROL IN DICAMBA TOLERANT SOYBEANS. W. J. Everman* ¹ , S. Seifert-Higgins ² , D. H. Williamson ³ ; ¹ North Carolina State University, Raleigh, NC, ² Monsanto Company, St. Louis, MO, ³ Monsanto, St. Louis, MO (66)	66
SELECTIVITY OF AN HPPD-TOLERANT SOYBEAN EVENT. J. Allen* ¹ , J. Hinz ² ; ¹ Bayer CropScience, Research Triangle Park, NC, ² Bayer CropScience, Story City, IA (67)	67
IMPACT OF ROW WIDTH, SEEDING RATE, AND HERBICIDE PROGRAMS ON PALMER AMARANTH CONTROL IN LIBERTY LINK SOYBEAN. H. D. Bell*, J. K. Norsworthy, D. B. Johnson, S. S. Rana, Z. T. Hill, B. W. Schrage; University of Arkansas, Fayetteville, AR (68)	68
HERBICIDE PROGRAMS FOR PALMER AMARANTH CONTROL IN A GLUFOSINATE TOLERANT SOYBEAN SYSTEM. A. Brown* ¹ , J. Irby ¹ , D. B. Reynolds ¹ , T. W. Eubank ² ; ¹ Mississippi State University, Mississippi State, MS, ² Mississippi State University, Stoneville, MS (69)	69
BROADLEAF WEED CONTROL PROGRAMS IN EDAMAME SOYBEAN. R. A. Salas* ¹ , N. R. Burgos ¹ , B. Scott ² , G. M. Botha ¹ , H. B. Tahir ¹ , V. Singh ¹ , L. Estorninos ¹ ; ¹ University of Arkansas, Fayetteville, AR, ² University of Arkansas, Lonoke, AR (70)	70
IMPACT OF METRIBUZIN OR SULFENTRAZONE HERBICIDES ON SENSITIVE AND TOLERANT SOYBEAN (<i>GLYCINE MAX</i>) VARIETIES. B. W. Thomason* ¹ , T. W. Eubank ² , D. H. Poston ³ , J. Irby ¹ ; ¹ Mississippi State University, Mississippi State, MS, ² Mississippi State University, Stoneville, MS, ³ Pioneer, Huntsville, AL (71)	71
COMPARISON OF ROUNDUP READY [®] AND CONVENTIONAL SOYBEAN (<i>GLYCINE MAX L.</i>) GROWING SYSTEMS FOR WEED CONTROL, YIELD AND ECONOMIC PROFITABILITY. B. L. Gaban* ¹ , L. E. Steckel ² , T. C. Mueller ¹ ; ¹ University of Tennessee, Knoxville, TN, ² University of Tennessee, Jackson, TN (72) 72	72
GLYPHOSATE-RESISTANT JOHNSONGRASS (<i>SORGHUM HALEPENSE</i>) CONTROL IN SOYBEAN (<i>GLYCINE MAX</i>) WITH CHLORIMURON, CLETHODIM, FOMESAFEN, AND GLUFOSINATE. R. L. Landry*, D. Stephenson, B. C. Woolam; LSU AgCenter, Alexandria, LA (73)	73
EVALUATION OF ANTHEM IN LOUISIANA SOYBEAN PRODUCTION SYSTEMS. D. K. Miller* ¹ , D. Stephenson ² , M. M. Mathews ¹ , R. L. Landry ² , B. C. Woolam ² ; ¹ LSU AgCenter, St. Joseph, LA, ² LSU AgCenter, Alexandria, LA (74)	74
EVALUATION OF CANOPY, CANOPY EX, ENVIVE, FIERCE, AND ZIDUA IN LOUISIANA SOYBEAN PRODUCTION SYSTEMS. M. M. Mathews*, D. K. Miller; LSU AgCenter, St. Joseph, LA (75)	75
EVALUATION OF ZIDUA CO-APPLIED WITH CANOPY OR ENVIVE IN LOUISIANA SOYBEAN PRODUCTION SYSTEMS. M. M. Mathews*, D. K. Miller; LSU AgCenter, St. Joseph, LA (76)	76
WEED MANAGEMENT IN LIBERTYLINK VERSUS ROUNDUP READY SOYBEAN. T. E. Besancon*, W. J. Everman; North Carolina State University, Raleigh, NC (77)	77
SOYBEAN RESPONSE TO DIURON. E. P. Prostko*, P. M. Eure, R. M. Merchant; University of Georgia, Tifton, GA (78)	78
EVALUATING [®] DIFFERENTIAL VOLATILITY [®] OF AUXIN-TYPE HERBICIDES UTILIZING NOVEL FIELD METHODOLOGY. D. H. Perry* ¹ , B. Braxton ² , A. T. Ellis ¹ , R. A. Haygood ³ , R. B. Lassiter ⁴ , J. S. Richburg ⁵ , L. C. Walton ⁶ ; ¹ Dow AgroSciences, Greenville, MS, ² Dow AgroSciences, Travelers Rest, SC, ³ Dow	

AgroSciences, Germantown, TN, ⁴ Dow AgroSciences, Little Rock, AR, ⁵ Dow AgroSciences, Dothan, AL, ⁶ Dow AgroSciences, Tupelo, MS (79)	79
SOUTHERN SANDBUR (<i>CENCHRUS ECHINATUS</i>) EMERGENCE AND DEVELOPMENT AS INFLUENCED BY SOIL DEPTH AND LIGHT INTENSITY IN FIELD CONDITIONS. D. Martins ^{*1} , G. S. F Souza ¹ , M. R. R Pereira ¹ , J. S. McElroy ² ; ¹ Universidade Estadual Paulista - UNESP, Botucatu, Brazil, ² Auburn University, Auburn, AL (80)	80
INTERACTION OF PALMER AMARANTH (<i>AMARANTHUS PALMERI</i>) GROWTH AND GLUFOSINATE ACTIVITY. W. K. Vencill [*] ; University of Georgia, Athens, GA (81).....	81
EFFECT OF NOZZLE TYPE AND SPRAY VOLUME ON PALMER AMARANTH CONTROL. H. M. Edwards [*] , J. A. Bond, T. W. Eubank, S. A. Shinkle, G. B. Montgomery; Mississippi State University, Stoneville, MS (82).....	82
IMPACT OF SPRAY NOZZLE TECHNOLOGY ON ENLIST DUO™ WEED CONTROL AND CROP TOLERANCE. B. Braxton ^{*1} , J. Huff ² , D. H. Perry ³ , D. Ruen ⁴ , L. C. Walton ⁵ ; ¹ Dow AgroSciences, Travelers Rest, SC, ² Dow AgroSciences, Herrin, IL, ³ Dow AgroSciences, Greenville, MS, ⁴ Dow AgroSciences, Lanesboro, MN, ⁵ Dow AgroSciences, Tupelo, MS (83)	83
CYTOGENETICS OF <i>EUPHORBIA HETEROPHYLLA</i> (L.) (EUPHORBIOIDEAE, EUPHORBIACEAE) BIOTYPES WITH MULTIPLE RESISTANCE TO HERBICIDES. A. C. Roso ^{*1} , D. Guerra ² , M. T. Schifino-Wittmann ² , R. A. Vidal ² , M. Trezzi ³ , N. R. Burgos ¹ ; ¹ University of Arkansas, Fayetteville, AR, ² Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil, ³ Universidade Tecnológica Federal do Parana, Pato Branco, Brazil (84).....	84
POSTEMERGENCE CONTROL OF <i>LOLIUM MULTIFLORUM</i> RESISTANT TO IODOSULFURON-METHYL-SODIUM HERBICIDE. F. Mariani ^{*1} , L. Vargas ² , D. Agostinetto ³ , S. A. Senseman ¹ , L. A. Avila ⁴ ; ¹ Texas A&M University, College Station, TX, ² Embrapa Trigo, Passo Fundo, Brazil, ³ UFPEL, Pelotas, Brazil, ⁴ Universidade Federal de Pelotas, Pelotas - RS, Brazil (85)	85
RESPONSE OF GLYPHOSATE-RESISTANT JOHNSONGRASS TO ACCASE-INHIBITING HERBICIDES. M. T. Bararpour ^{*1} , J. K. Norsworthy ¹ , D. S. Riar ¹ , D. B. Johnson ¹ , B. Scott ² ; ¹ University of Arkansas, Fayetteville, AR, ² University of Arkansas, Lonoke, AR (86).....	86
GLYPHOSATE RESISTANT GOOSEGRASS (<i>ELEUSINE INDICA</i>) IN SPANISH CITRUS ORCHARDS. F. Gonzalez-Torralva [*] , M. Perez Lopez, R. De Prado; Cordoba University, Cordoba, Spain (87).....	87
COMPARATIVE ASSESSMENT OF THE SUSCEPTIBILITY OF THE SPECIES <i>BRACHIARIA DECUMBENS</i> AND <i>BRACHIARIA BRIZANTHA</i> TO GLYPHOSATE DUE TO THE STAGE OF DEVELOPMENT IN THE APPLICATION. M. Nicolai ^{*1} , P. J. Christoffoleti ^{JC2} , F. B. Obara ³ , M. C. Melo ³ , A. A. Prado ³ , D. Dourado Neto ³ ; ¹ University of Sao Paulo, Piracicaba, Brazil, ² University of Sao Paulo, Piracicaba, Brazil, ³ Escola Superior de Agricultura "Luiz de Queiroz", Piracicaba, Brazil (88).....	88
COMPARATIVE ASSESSMENT OF THE SUSCEPTIBILITY OF THE SPECIES <i>IPOMOEA GRANDIFOLIA</i> AND <i>IPOMOEA NIL</i> TO GLYPHOSATE DUE TO THE STAGE OF DEVELOPMENT IN THE APPLICATION. P. J. Christoffoleti ^{JC*1} , M. Nicolai ² , F. B. Obara ³ , M. C. Melo ³ , A. A. Prado ³ , D. Dourado Neto ³ ; ¹ University of Sao Paulo, Piracicaba, Brazil, ² University of Sao Paulo, Piracicaba, Brazil, ³ Escola Superior de Agricultura "Luiz de Queiroz", Piracicaba, Brazil (89).....	89
GLYPHOSATE TOLERANCE IN <i>COLOGANIA BROUSSONETII</i> IS CONFERRED BY A REDUCED GLYPHOSATE TRANSLOCATION. M. Perez Lopez ¹ , F. Gonzalez-Torralva ^{*1} , J. A. Dominguez-Valenzuela ² , R. De Prado ¹ ; ¹ Cordoba University, Cordoba, Spain, ² Chapingo Autonomous University, Mexico State, Mexico (90).90	
EFFECT OF SOIL DEPTH AND LIGHT INTENSITY ON PLATAIN SIGNALGRASS (<i>UROCHLOA PLANTAGINE</i>) EMERGENCE AND DEVELOPMENT IN FIELD CONDITIONS. G. S. F Souza ^{*1} , D. Martins ¹ ,	

M. R. R Pereira ¹ , J. S. McElroy ² ; ¹ Universidade Estadual Paulista - UNESP, Botucatu, Brazil, ² Auburn University, Auburn, AL (91).....	91
MEASUREMENT OF DICAMBA OFF-SITE MOVEMENT IN THE FIELD. H. Smith* ¹ , D. Findley ² , K. M. Remund ³ , D. R. Wright ³ , E. D. Sall ¹ ; ¹ Monsanto Co, St. Louis, MO, ² Monsanto, St. Louis, MO, ³ Monsanto Ag Products, St. Louis, MO (92).....	92
RYEGRASS CONTROL AND SOFT RED WINTER WHEAT TOLERANCE TO PYROXASULFONE HERBICIDE. B. Scott* ¹ , J. W. Dickson ¹ , B. Davis ² , T. W. Dillon ¹ ; ¹ University of Arkansas, Lonoke, AR, ² University of Arkansas, Lonoke, AR (93).....	93
EFFECT OF PYROXASULFONE RATE AND TIMING ON WINTER WHEAT. L. A. Grier* ¹ , W. J. Everman ¹ , T. E. McKemie ² , S. Tan ² ; ¹ North Carolina State University, Raleigh, NC, ² BASF Corporation, Research Triangle Park, NC (94).....	94
COMPETITIVENESS OF WHEAT IN ASSOCIATION WITH THE RYEGRASS. C. P. Tarouco* ¹ , D. Agostinetto ² , S. A. Senseman ¹ , R. Manica-Berto ² , L. A. Avila ³ ; ¹ Texas A&M University, College Station, TX, ² UFPEl, Pelotas, Brazil, ³ Universidade Federal de Pelotas, Pelotas - RS, Brazil (95).....	95
DIFFERENTIAL RESISTANCE TO GLUFOSINATE BETWEEN A WILD AND A GM <i>TRITICUM AESTIVUM</i> LINE. A. M. Rojano-Delgado* ¹ , F. Jimenez ² , F. Priego-Capote ¹ , M. Luque de Castro ¹ , R. De Prado ³ ; ¹ University of Cordoba, Cordoba, Spain, ² IDIAF, Santo Domingo, Dominican Republic, ³ Cordoba University, Cordoba, Spain (96).....	96
BASF'S ON-TARGET APPLICATION ACADEMY: EDUCATING GROWERS. W. E. Thomas* ¹ , M. Staal ¹ , S. J. Bowe ² , L. L. Bozeman ³ , D. Pepitone ¹ ; ¹ BASF Corporation, Research Triangle Park, NC, ² BASF, Research Triangle Park, NC, ³ BASF, Raleigh, NC (97).....	97
DUPONT'S PERSPECTIVES ON MANAGING WEED RESISTANCE IN SOUTHERN STATES. D. Saunders ¹ , J. Smith ² , H. A. Flanigan* ³ ; ¹ DuPont, Johnston, IA, ² E. I. DuPont, Wilmington, DE, ³ DuPont Crop Protection, Greenwood, IN (98).....	98
GROWERS' SURVEY ON THE CURRENT WEED MANAGEMENT PRACTICES AND HERBICIDE RESISTANCE IN FLORIDA CITRUS. A. M. Ramirez*, S. H. Futch, M. Singh; University of Florida, Lake Alfred, FL (99).....	99
FLAG THE TECHNOLOGY: A SIMPLE AND NOVEL APPROACH TO FIELD HERBICIDE TECHNOLOGY IDENTIFICATION. R. Baker*, B. Scott; University of Arkansas, Lonoke, AR (100).....	100
BENCHMARK STUDY: OVERALL LONG-TERM ECONOMIC VIABILITY OF HERBICIDE RESISTANCE MANAGEMENT PROGRAMS. B. Edwards* ¹ , D. R. Shaw ² , M. D. Owen ³ , P. Dixon ³ , B. Young ⁴ , R. Wilson ⁵ , D. L. Jordan ⁶ , S. Weller ⁷ ; ¹ Mississippi State University, Starkville, MS, ² Mississippi State University, Mississippi State, MS, ³ Iowa State University, Ames, IA, ⁴ Southern Illinois University, Carbondale, IL, ⁵ University Nebraska Lincoln, Lincoln, NE, ⁶ North Carolina State University, Raleigh, NC, ⁷ Purdue University, West Lafayette, IN (101).....	101
LOBLOLLY PINE TOLERANCE TO GROUND SPRAYING APPLICATIONS OF AMINOCYCLOPYRACHLOR. A. W. Ezell* ¹ , A. B. Self ² ; ¹ Mississippi State University, Starkville, MS, ² Mississippi State University, Starkville, MS (102).....	PIC
ASSESSMENT OF DIFFERENT BASAL BARK CARRIERS ON CONTROL OF RUSSIAN OLIVE (<i>ELAEAGNUS ANGUSTIFOLIA</i> L.) THROUGH CUT STUMP APPLICATIONS OF AMINOCYCLOPYRACHLOR. R. J. Edwards* ¹ , K. Beck ² , M. T. Edwards ³ ; ¹ Mississippi State University, Starkville, MS, ² Colorado State University, Ft. Collins, CO, ³ E. I. DuPont, Pierre Part, LA (103).....	103

RESIDUAL HERBACEOUS WEED CONTROL USING SITE PREPARATION MIXTURES INCLUDING FLAZASULFURON AND SULFOMETURON METHYL. A. W. Ezell ^{*1} , A. B. Self ² ; ¹ Mississippi State University, Starkville, MS, ² Mississippi State University, Strakville, MS (104)	P IC
BROWNOUT OF BOXELDER AND TRI-FOLIATE ORANGE IN TEXAS WITH AMINOCYCLOPYRACHLOR BASAL BARK APPLICATIONS. J. Grogan*, J. L. Yeiser; Stephen F Austin State University, Nacogdoches, TX (105).....	105
SCREENING FOLIAR RATES OF STREAMLINE AND VIEWPOINT FOR INDIVIDUAL PLANT TREATMENT AND BROWNOUT OF YAUPON AND OAK. J. L. Yeiser*, J. Grogan; Stephen F Austin State University, Nacogdoches, TX (106).....	106
PREEMERGENCE WEED CONTROL FOR CABLE BARRIER SYSTEMS USING SELECTED HERBICIDE TREATMENT COMBINATIONS. D. Montgomery*, D. L. Martin; Oklahoma State University, Stillwater, OK (107)	107
VEGETATION MANAGEMENT UNDER HIGHWAY GUARDRAILS WITH ESPLANADE - SOUTHEAST REGIONAL SUMMARY. D. R. Spak ^{*1} , J. Brosnan ² , P. L. Hipkins ³ , P. McCullough ⁴ , J. Omielan ⁵ , J. J. Vargas ² , R. H. Walker ⁶ ; ¹ BayerCropScience, Cary, NC, ² University of Tennessee, Knoxville, TN, ³ Virginia Tech University, Blacksburg, VA, ⁴ University of Georgia, Griffin, GA, ⁵ University of Kentucky, Lexington, KY, ⁶ Auburn University, Auburn, AL (108).....	108
INDAZIFLAM FOR WEED CONTROL ALONG WARM-SEASON ROADSIDES IN NORTH CAROLINA. T. Gannon ^{*1} , F. Yelverton ² , L. Warren ¹ , M. Jeffries ² , D. R. Spak ³ ; ¹ North Carolina State University, Raleigh, NC, ² NCSU, Raleigh, NC, ³ BayerCropScience, Cary, NC (109)	109
THE IMPORTANCE OF CONSIDERING GENOTYPE — ENVIRONMENT INTERACTIONS TO ASSESS THE RISK OF WEEDINESS OF ENERGYCANE CULTIVARS. R. G. Leon ^{*1} , R. A. Gilbert ² , J. C. Comstock ³ ; ¹ University of Florida, Jay, FL, ² University of Florida, Belle Glade, FL, ³ USDA-ARS, Canal Point, FL (110)	110
HERBICIDE REGISTRATION REVIEW IN THE U.S. J. W. Wells*; Syngenta, Greensboro, NC (111).....	111
EMERGING PROCEDURES FOR ASSESSING POTENTIAL EFFECTS OF HERBICIDES ON ENDANGERED SPECIES. D. D. Campbell*; Syngenta Crop Protection, Greensboro, NC (112).....	P IC
HERBICIDE REGISTRANT INTERACTIONS WITH STATE LEAD AGENCIES. L. Zang*; Syngenta Crop Protection, Greensboro, NC (113)	113
SOYBEAN PERFORMANCE FOLLOWING ITALIAN RYEGRASS CONTROL PROGRAMS. S. A. Shinkle*, J. A. Bond, T. W. Eubank, H. M. Edwards, G. B. Montgomery; Mississippi State University, Stoneville, MS (114).114	
WEED MANAGEMENT AND CROP RESPONSE WHEN INTERCROPPING CANTALOUPE AND COTTON. P. M. Eure*, A. S. Culpepper, R. M. Merchant; University of Georgia, Tifton, GA (115).....	115
COMPARISON OF ROUNDUP READY [®] AND CONVENTIONAL SOYBEAN (<i>GLYCINE MAX</i> L.) GROWING SYSTEMS FOR WEED CONTROL, YIELD AND ECONOMIC PROFITABILITY. B. L. Gaban ^{*1} , L. E. Steckel ² , T. C. Mueller ¹ ; ¹ University of Tennessee, Knoxville, TN, ² University of Tennessee, Jackson, TN (116)	116
MANAGING PALMER AMARANTH IN COTTON SYSTEMS UTILIZING COVER CROPS. M. S. Wiggins*, L. E. Steckel; University of Tennessee, Jackson, TN (117).....	117
A COMPARISON OF AUXIN HERBICIDE VOLATILITY WHEN APPLIED UNDER FIELD CONDITIONS. C. A. Hayden ^{*1} , D. B. Reynolds ¹ , A. N. Eytcheson ¹ , L. C. Walton ² , D. H. Perry ³ ; ¹ Mississippi State University, Mississippi State, MS, ² Dow AgroSciences, Tupelo, MS, ³ Dow AgroSciences, Greenville, MS (118)	118

INFLUENCE OF CARRIER VOLUME AND NOZZLE SELECTION ON PALMER AMARANTH CONTROL. S. Berger* ¹ , J. Ferrell ¹ , T. M. Webster ² , R. G. Leon ³ ; ¹ University of Florida, Gainesville, FL, ² USDA-ARS, Tifton, GA, ³ University of Florida, Jay, FL (119).....	119
EFFICACY OF PRE- AND POST-EMERGENCE APPLICATIONS OF DICAMBA ON GLYPHOSATE-RESISTANT PALMER AMARANTH. B. Edwards* ¹ , T. W. Eubank ² , D. R. Shaw ³ , L. E. Steckel ⁴ ; ¹ Mississippi State University, Starkville, MS, ² Mississippi State University, Stoneville, MS, ³ Mississippi State University, Mississippi State, MS, ⁴ University of Tennessee, Jackson, TN (120).....	120
IMPACT OF HEMP SESBANIA AND INDIAN JOINTVETCH IN CLEARFIELD RICE. N. D. Fickett*, E. P. Webster, B. M. McKnight, J. C. Fish; LSU AgCenter, Baton Rouge, LA (121).....	121
PALMER AMARANTH AND IVYLEAF MORNINGGLORY CONTROL IN GLYPHOSATE-DICAMBA-GLUFOSINATE-TOLERANT COTTON. J. L. Spradley* ¹ , W. Keeling ² , P. A. Dotray ² , J. D. Reed ² ; ¹ Texas A&M AgriLife Research, Lubbock, TX, ² Texas AgriLife Research, Lubbock, TX (122).....	122
EVALUATION OF SOYBEAN HERBICIDES FOR MANAGEMENT OF A RECENTLY INTRODUCED PALMER AMARANTH (<i>AMRANTHUS PALMERI</i>) POPULATION. K. M. Vollmer*, H. P. Wilson, T. E. Hines; Virginia Tech, Painter, VA (123).....	123
GLUFOSINATE RATE AND TIMING FOR CONTROL OF JOHNSONGRASS (<i>SORGHUM HALEPENSE</i>) IN GLUFOSINATE-RESISTANT SOYBEAN (<i>GLYCINE MAX</i>). R. L. Landry*, D. Stephenson, B. C. Woolam; LSU AgCenter, Alexandria, LA (124).....	124
CROSS RESISTANCE TO ALS INHIBITORS IN <i>EUPHORBIA HETEROPHYLLA</i> (L.) WITH MULTIPLE HERBICIDE RESISTANCE. A. C. Roso* ¹ , R. A. Vidal ² , M. Trezzi ³ , N. R. Burgos ¹ ; ¹ University of Arkansas, Fayetteville, AR, ² Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil, ³ Universidade Tecnologica Federal do Parana, Pato Branco, Brazil (125).....	125
IMPACT OF PLANT POPULATION, ROW SPACING AND HERBICIDE ON WEED MANAGEMENT IN SORGHUM. T. E. Besancon*, R. Riar, R. Heiniger, R. Weisz, W. J. Everman; North Carolina State University, Raleigh, NC (126).....	P IC
WEED COMPETITION AND CONTROL IN SOLANACEOUS CROPS. D. M. Dayton* ¹ , S. Chaudhari ² , K. M. Jennings ³ , D. W. Monks ² ; ¹ NC State University, Raleigh, NC, ² North carolina state university, Raleigh, NC, ³ NCSU, Raleigh, NC (127).....	P IC
EFFICACY OF DAS 402, DAS 534 AND DAS 896 COMPARED TO TRICLOPYR ON SELECTED WOODY PLANTS USING RAPID SCREENING METHODS. W. L. Stanley* ¹ , S. M. Zedaker ¹ , J. R. Seiler ¹ , P. L. Burch ² ; ¹ Virginia Tech, Blacksburg, VA, ² Dow AgroSciences, Christianburg, VA (128).....	128
RAGWEED PARTHENIUM (<i>PARTHENIUM HYSTEROPHORUS</i>) CONTROL IN NONCROP AREAS IN THE EVERGLADES AGRICULTURAL AREA. J. V. Fernandez* ¹ , D. C. Odera ² , G. E. MacDonald ¹ , J. Ferrell ¹ ; ¹ University of Florida, Gainesville, FL, ² University of Florida, Belle Glade, FL (129).....	129
EFFECT OF WEEDS IN SEEPAGE IRRIGATION FURROWS ON WEED SEEDBANK IN POTATO (<i>SOLANUM TUBEROSUM</i>). C. E. Rouse*, P. J. Dittmar; University of Florida, Gainesville, FL (130).....	130
CORN POLLINATION AND YIELD AS INFLUENCED BY WEED DENSITY AND CORN POPULATION. M. K. Williams* ¹ , R. Heiniger ² , D. L. Jordan ² , W. J. Everman ² ; ¹ North Carolina State Univesity, Sanford, NC, ² North Carolina State University, Raleigh, NC (131).....	131
CROP TOLERANCE AND PALMER AMARANTH CONTROL BY ZIDUA, WARRANT, AND DUAL MAGNUM IN COTTON. C. W. Cahoon*, A. C. York, D. L. Jordan, W. J. Everman; North Carolina State University, Raleigh, NC (132).....	132

HERBICIDE PROGRAMS FOR CONTROLLING GLYPHOSATE-RESISTANT JOHNSONGRASS IN LIBERTY LINK SOYBEAN. D. B. Johnson* ¹ , J. K. Norsworthy ¹ , H. D. Bell ¹ , B. W. Schrage ¹ , D. S. Riar ¹ , B. Scott ² ; ¹ University of Arkansas, Fayetteville, AR, ² University of Arkansas, Lonoke, AR (133).....	133
INFLUENCE OF APPLICATION TIME OF DAY ON WEED CONTROL IN ENLIST COTTON. R. M. Merchant* ¹ , A. S. Culpepper ¹ , J. S. Richburg ² , P. M. Eure ¹ ; ¹ University of Georgia, Tifton, GA, ² Dow AgroSciences, Dothan, AL (134)	134
NITROGEN CONTENT IN CORN AND WEEDS AT VARIOUS GROWTH STAGES DUE TO VARYING NITROGEN SOURCES AND RATES. A. M. Knight*, W. J. Everman, D. L. Jordan, R. Heiniger, T. J. Smyth; North Carolina State University, Raleigh, NC (135).....	135
SOYBEAN RESPONSE AND WEED CONTROL WITH PYROXASULFONE. J. Hardwick* ¹ , J. L. Griffin ¹ , D. Stephenson ² , M. J. Bauerle ¹ ; ¹ LSU AgCenter, Baton Rouge, LA, ² LSU AgCenter, Alexandria, LA (136).....	136
WEED MANAGEMENT IN CLEARFIELD RICE. J. C. Fish* ¹ , E. P. Webster ¹ , N. D. Fickett ¹ , B. M. McKnight ¹ , J. A. Bond ² ; ¹ LSU AgCenter, Baton Rouge, LA, ² Mississippi State University, Stoneville, MS (137)	137
YELLOW NUTSEDGE CONTROL WITH TRIBUTE TOTAL. K. Venner* ¹ , M. Cox ² , S. D. Askew ¹ , J. Hope ³ ; ¹ Virginia Tech, Blacksburg, VA, ² Virginia Tech, Blacksburg, VA, ³ BayerCropScience, Raleigh, NC (138).....	138
DETERMINATION OF METHIOZOLIN ABSORPTION AND TRANSLOCATION IN ANNUAL BLUEGRASS (<i>POA ANNUA</i>). M. L. Flessner* ¹ , G. R. Wehtje ² , J. S. McElroy ² ; ¹ Auburn University, Auburn University, AL, ² Auburn University, Auburn, AL (139).....	139
PREEMERGENCE HERBICIDES AFFECT HYBRID BERMUDAGRASS NUTRIENT CONTENT. P. A. Jones*, J. Brosnan, D. A. Kopsell, G. K. Breeden; University of Tennessee, Knoxville, TN (140).....	140
PREEMERGENT HERBICIDE COMBINATIONS FOR GOOSEGRASS CONTROL IN BERMUDAGRASS FAIRWAYS. M. Cox* ¹ , A. Smith ² , S. D. Askew ² , J. Corbett ³ ; ¹ Virginia Tech, Blacksburg, VA, ² Virginia Tech, Blacksburg, VA, ³ Qualipro, Clayton, NC (141).....	141
TOLERANCE OF FIVE WARM-SEASON TURFGRASSES TO FLUMIOXAZIN. T. Reed*, P. McCullough; University of Georgia, Griffin, GA (142).....	142
MICROSTEGIUM MANAGEMENT: INFLUENCING FOREST COMMUNITY STRUCTURE. A. R. Post* ¹ , D. Tekiel ² , J. N. Barney ¹ , S. D. Askew ¹ ; ¹ Virginia Tech, Blacksburg, VA, ² Virginia Tech, Blacksburg, VA (143) ...	143
EVALUATION OF CUTLESS G (FLURPRIMIDOL) ON ORNAMENTAL SHRUBS IN RELATION TO PRUNING TIME AND METHOD OF APPLICATION. H. C. Smith*; University of Florida, Gainesville, FL (144)	144
PHYSIOLOGICAL EFFECTS OF TEMPERATURE ON TURFGRASS INJURY TO AMICARBAZONE. J. Yu*, P. McCullough; University of Georgia, Griffin, GA (145)	145
EVALUATION OF NEW HERBICIDES, MOWING, AND APPLICATION TIMING ON COGONGRASS (<i>IMPERATA CYLINDRICA</i>) STAND REDUCTION AND CONTROL. L. C. Beckworth*, J. D. Byrd, J. M. Taylor, N. Barksdale, M. L. Zaccaro; Mississippi State University, Mississippi State, MS (146)	146
EFFECTS OF AMINOCYCLOPYRACHLOR PLUS METSULFURON ON TALL FESCUE GROWTH AND FORAGE QUALITY. T. D. Israel* ¹ , N. Rhodes ² , T. C. Mueller ² , G. E. Bates ² , J. C. Waller ² ; ¹ University of Tennessee Knoxville, Knoxville, TN, ² University of Tennessee, Knoxville, TN (147).....	147
EVALUATION OF AMINOCYCLOPYRACHLOR-METHYL ALONE AND IN MIXTURES FOR WEED MANAGEMENT IN ABANDONED PASTURES. J. J. Vargas* ¹ , J. Brosnan ¹ , D. A. Kopsell ¹ , G. R. Armel ² , T. C. Mueller ¹ , W. Klingeman ¹ ; ¹ University of Tennessee, Knoxville, TN, ² BASF, Raleigh, NC (148).....	148

THE EFFECT OF GROWING DEGREE-DAY-BASED APPLICATION TIMINGS ON DALLISGRASS (<i>PASPALUM DILATATUM</i>) CONTROL IN TALL FESCUE. M. Elmore*, J. Brosnan, T. C. Mueller, D. A. Kopsell, G. K. Breeden; University of Tennessee, Knoxville, TN (149)	149
TOLERANCE OF PERENNIAL RYEGRASS OVERSEEDING TO RESIDUAL ACTIVITY OF TRIBUTE TOTAL. C. M. Straw* ¹ , G. M. Henry ¹ , T. Cooper ² , L. Beck ² ; ¹ University of Georgia, Athens, GA, ² Texas Tech University, Lubbock, TX (150)	150
IMPACT OF NOZZLE SELECTION ON ENGENIA PERFORMANCE. L. Newsom* ¹ , W. E. Thomas ² , J. Frihauf ³ , S. J. Bowe ⁴ , G. Kruger ⁵ ; ¹ BASF Corporation, Tifton, GA, ² BASF Corporation, Research Triangle Park, NC, ³ BASF Corporation, Raleigh, NC, ⁴ BASF, Research Triangle Park, NC, ⁵ University of Nebraska-Lincoln, North Platte, NE (151)	151
EFFECT OF SPRAY TIP SELECTION ON PALMER AMARANTH CONTROL. T. H. Dixon* ¹ , D. M. Dodds ¹ , D. Z. Reynolds ¹ , C. A. Samples ¹ , A. Mills ² ; ¹ Mississippi State University, Mississippi State, MS, ² Monsanto, Collierville, TN (152)	152
EVALUATION OF SEQUESTRATION OF AUXIN HERBICIDES IN SPRAYER HOSES. G. T. Cundiff* ¹ , D. B. Reynolds ² ; ¹ Mississippi State University, Starkville, MS, ² Mississippi State University, Mississippi State, MS (153)	153
SUCCESSFUL TANK-MIXING AND SPRAY APPLICATION OF GRAMOXONE SL 2.0. M. Ledson*, M. Hopkinson, C. Ouzts, C. Miln, L. Glasgow; Syngenta, Greensboro, NC (154)	154
ADVANCEMENTS IN DEVELOPING ROUNDUP® XTEND™ GLYPHOSATE/ DICAMBA PREMIX FORMULATIONS. J. Sandbrink* ¹ , A. MacInnes ² , D. R. Wright ³ , J. A. Kendig ¹ , D. Findley ¹ , J. N. Travers ⁴ , E. Urbanczyk-Wochniak ⁵ ; ¹ Monsanto, St. Louis, MO, ² Monsanto Company, St. Louis, MO, ³ Monsanto Ag Products, St. Louis, MO, ⁴ Monsanto Co., St. Louis, MO, ⁵ Monsanto, St. Louis, MO (155).....	P I C
TOLERANCE OF DGT COTTON TO GLUFOSINATE AND DICAMBA. D. Z. Reynolds* ¹ , D. M. Dodds ¹ , T. H. Dixon ¹ , C. A. Samples ¹ , L. Barber ² , C. Main ³ , A. Mills ⁴ ; ¹ Mississippi State University, Mississippi State, MS, ² University of Arkansas, Little Rock, AR, ³ University of Tennessee, Jackson, TN, ⁴ Monsanto, Collierville, TN (156)	156
WEED MANAGEMENT WITH ENGENIA™ HERBICIDE IN DICAMBA TOLERANT CROPS. C. D. Youmans* ¹ , J. Frihauf ² , W. E. Thomas ¹ , S. J. Bowe ³ , L. L. Bozeman ⁴ ; ¹ BASF Corporation, Research Triangle Park, NC, ² BASF Corporation, Raleigh, NC, ³ BASF, Research Triangle Park, NC, ⁴ BASF, Raleigh, NC (157).....	157
DICAMBA CONTRIBUTES RESIDUAL CONTROL OF PALMER AMARANTH IN ROUNDUP READY® XTEND CROP SYSTEMS. A. Mills* ¹ , S. Seifert-Higgins ² , S. Bollman ² , J. A. Bond ³ , D. M. Dodds ⁴ , E. Blinka ⁵ , C. Corkern ⁶ , S. Crawley ⁷ , D. Pitts ⁸ , D. Singh ⁹ , S. Stanislav ¹⁰ , A. Winslow ¹¹ ; ¹ Monsanto, Collierville, TN, ² Monsanto Company, St. Louis, MO, ³ Mississippi State University, Stoneville, MS, ⁴ Mississippi State University, Mississippi State, MS, ⁵ Monsanto, Dyersburg, TN, ⁶ Monsanto, Alapaha, GA, ⁷ Monsanto, Florence, SC, ⁸ Monsanto, Lexington, SC, ⁹ Monsanto, Garner, NC, ¹⁰ Monsanto, Cape Girardeau, MO, ¹¹ Monsanto, Smithfield, NC (158)	158
DICAMBA CROPPING SYSTEMS:&NBSP; IT'S A PROGRAM APPROACH. J. A. Kendig* ¹ , D. Findley ¹ , J. N. Travers ² , G. Griffith ¹ , R. Godara ¹ ; ¹ Monsanto, St. Louis, MO, ² Monsanto Co., St. Louis, MO (159).....	P I C
GLYPHOSATE-RESISTANT PALMER AMARANTH (<i>AMARANTHUS PALMERI</i>) CONTROL IN COTTON (<i>GOSSYPIUM HIRSUTUM</i>) WITH THE ENLIST WEED CONTROL SYSTEM. R. J. Edwards* ¹ , D. B. Reynolds ² , J. A. Bond ³ , D. M. Dodds ² , L. C. Walton ⁴ ; ¹ Mississippi State University, Starkville, MS, ² Mississippi State University, Mississippi State, MS, ³ Mississippi State University, Stoneville, MS, ⁴ Dow AgroSciences, Tupelo, MS (160)	160
WEED CONTROL OPTIONS FOR ENLIST™ SOYBEANS. R. B. Lassiter* ¹ , B. Braxton ² , A. T. Ellis ³ , R. A. Haygood ⁴ , J. S. Richburg ⁵ , D. M. Simpson ⁶ , L. C. Walton ⁷ ; ¹ Dow AgroSciences, Little Rock, AR, ² Dow	

AgroSciences, Travelers Rest, SC, ³ Dow AgroSciences, Greenville, MS, ⁴ Dow AgroSciences, Germantown, TN, ⁵ Dow AgroSciences, Dothan, AL, ⁶ Dow AgroSciences, Indianapolis, IN, ⁷ Dow AgroSciences, Tupelo, MS (161)	161
2,4-D AND DICAMBA RESISTANT SOYBEAN FOR MANAGEMENT OF GLYPHOSATE RESISTANT COMMON RAGWEED. A. Smith*, S. Hagood; Virginia Tech, Blacksburg, VA (162)	162
THE EFFECT OF AUXIN HERBICIDE CONCENTRATION ON SOYBEAN GROWTH AND YIELD. A. R. Blaine* ¹ , D. B. Reynolds ² , C. Smith ² ; ¹ Mississippi State University, Starkville, MS, ² Mississippi State University, Mississippi State, MS (163)	163
INFLUENCE OF 2,4-D APPLICATION ON CORN GROWTH AND YIELD. J. T. Copes* ¹ , D. Stephenson ² , J. A. Bond ³ , R. L. Landry ² , B. C. Woolam ² , J. L. Griffin ¹ ; ¹ LSU AgCenter, Baton Rouge, LA, ² LSU AgCenter, Alexandria, LA, ³ Mississippi State University, Stoneville, MS (164)	164
THE EFFECT OF COTTON GROWTH STAGE ON COTTON'S SENSITIVITY TO AUXIN HERBICIDES. J. L. Cobb* ¹ , A. R. Blaine ¹ , C. Smith ² , D. B. Reynolds ² ; ¹ Mississippi State University, Starkville, MS, ² Mississippi State University, Mississippi State, MS (165)	165
EFFECTIVENESS OF GLUFOSINATE WITH AND WITHOUT CLETHODIM AS INFLUENCED BY JOHNSONGRASS (<i>SORGHUM HALEPENSE</i>) HEIGHT IN GLUFOSINATE-RESISTANT COTTON (<i>GOSSYPIUM HIRSUTUM</i>). D. Stephenson* ¹ , J. K. Norsworthy ² , R. L. Landry ¹ , B. C. Woolam ¹ , D. B. Johnson ² ; ¹ LSU AgCenter, Alexandria, LA, ² University of Arkansas, Fayetteville, AR (166)	166
WEED MANAGEMENT OPTIONS FOR GLYTOL/LIBERTY LINK HERBICIDE TOLERANT COTTON. G. Schwarzlose* ¹ , N. Hummel ² , G. Light ¹ , G. Henniger ¹ , D. Unland ² , J. W. Mullins ³ ; ¹ Bayer CropScience, Lubbock, TX, ² Bayer CropScience, Raleigh, NC, ³ Bayer CropScience, Collierville, TN (167)	167
PALMER AMARANTH CONTROL SIGNIFICANTLY INFLUENCED BY THE TIME OF DAY IN WHICH LIBERTY IS APPLIED. A. S. Culpepper* ¹ , A. C. York ² , L. E. Steckel ³ , J. A. Bond ⁴ , D. Stephenson ⁵ ; ¹ University of Georgia, Tifton, GA, ² North Carolina State University, Raleigh, NC, ³ University of Tennessee, Jackson, TN, ⁴ Mississippi State University, Stoneville, MS, ⁵ LSU AgCenter, Alexandria, LA (168)	168
DOES LIGHT INTENSITY INFLUENCE COTTON'S TOLERANCE TO GLUFOSINATE? B. W. Schrage*, J. K. Norsworthy, H. D. Bell, Z. T. Hill; University of Arkansas, Fayetteville, AR (169)	169
EFFECT OF GLUFOSINATE APPLICATION ON YIELD OF LIBERTY LINK COTTON. D. M. Dodds* ¹ , L. Barber ² , C. Main ³ , T. H. Dixon ¹ , D. Z. Reynolds ¹ , C. A. Samples ¹ ; ¹ Mississippi State University, Mississippi State, MS, ² University of Arkansas, Little Rock, AR, ³ University of Tennessee, Jackson, TN (170)	170
EFFECT OF PALMER AMARANTH SIZE ON THE ACTIVITY OF FLEXSTAR®. V. K. Shivrain* ¹ , C. L. Dunne ¹ , R. Jain ² , L. Glasgow ³ , D. J. Porter ⁴ ; ¹ Syngenta Crop Protection, LLC, Vero Beach, FL, ² Syngenta Crop Protection, Vero Beach, FL, ³ Syngenta, Greensboro, NC, ⁴ Syngenta Crop Protection, LLC, Greensboro, NC (171)	171
EVALUATION OF DIURON AND DIQUAT COMBINATIONS FOR PALMER AMARANTH CONTROL ON DITCHBANKS. Z. T. Hill*, J. K. Norsworthy, H. D. Bell, B. W. Schrage; University of Arkansas, Fayetteville, AR (172)	172
EVALUATION OF PRE AND POST WEED CONTROL PROGRAMS FOR PALMER AMARANTH CONTROL. C. A. Samples* ¹ , D. M. Dodds ¹ , D. Z. Reynolds ¹ , T. H. Dixon ¹ , J. A. Bond ² , D. B. Reynolds ¹ , A. Mills ³ ; ¹ Mississippi State University, Mississippi State, MS, ² Mississippi State University, Stoneville, MS, ³ Monsanto, Collierville, TN (173)	173
GLYPHOSATE RESISTANT WEED MANAGEMENT IN TEXAS COTTON. J. A. McGinty* ¹ , P. A. Baumann ² , G. D. Morgan ¹ , M. E. Matocha ¹ , L. M. Etheredge ³ ; ¹ Texas A&M AgriLife Extension, College Station, TX, ² Texas AgriLife Extension, College Station, TX, ³ Monsanto, Llano, TX (174)	174

FULL-SEASON WEED CONTROL SYSTEMS IN ARKANSAS COTTON. R. C. Doherty ^{*1} , B. Scott ² , K. L. Smith ³ , J. R. Meier ¹ ; ¹ University of Arkansas, Monticello, AR, ² University of Arkansas, Lonoke, AR, ³ University of Arkansas-Extension, Monticello, AR (175)	175
INFLUENCE OF SOYBEAN POPULATION AND RESIDUAL HERBICIDE ON PALMER AMARANTH EMERGENCE. H. D. Bell [*] , J. K. Norsworthy, D. B. Johnson, B. W. Schrage, S. S. Rana, Z. T. Hill; University of Arkansas, Fayetteville, AR (177)	176
WEED CONTROL PROGRAMS IN ROUNDUP READY® 2 XTEND SOYBEANS. M. J. Bauerle [*] , J. L. Griffin, J. Hardwick; LSU AgCenter, Baton Rouge, LA (178)	177
COMPARISON OF ACETOCHLOR, S-METOLACHLOR, AND PYROXASULFONE APPLIED PRE AND POST IN GLUFOSINATE-RESISTANT SOYBEAN. J. R. Meier ^{*1} , K. L. Smith ² , B. Scott ³ , R. C. Doherty ¹ , J. A. Bullington ¹ ; ¹ University of Arkansas, Monticello, AR, ² University of Arkansas-Extension, Monticello, AR, ³ University of Arkansas, Lonoke, AR (179).....	178
PALMER AMARANTH WEED CONTROL PROGRAMS FOR ROUNDUP READY® 2 XTEND SOYBEANS IN THE MID-SOUTH. L. E. Steckel ^{*1} , T. W. Eubank ² , R. Montgomery ³ , B. Scott ⁴ , R. Smeda ⁵ , E. Blinka ⁶ , A. Mills ⁷ , S. Stanislav ⁸ , S. Seifert-Higgins ⁹ , F. Zabala ¹⁰ ; ¹ University of Tennessee, Jackson, TN, ² Mississippi State University, Stoneville, MS, ³ Monsanto, Union City, TN, ⁴ University of Arkansas, Lonoke, AR, ⁵ University of Missouri, Columbia, MO, ⁶ Monsanto, Dyersburg, TN, ⁷ Monsanto, Collierville, TN, ⁸ Monsanto, Cape Girardeau, MO, ⁹ Monsanto Company, St. Louis, MO, ¹⁰ Monsanto, St. Louis, MO (180).....	179
NEW TOOLS FOR WEED RESISTANCE MANAGEMENT. J. K. Soteres ^{*1} , D. Sammons ² , S. Reiser ¹ , G. Heck ¹ ; ¹ Monsanto Company, St. Louis, MO, ² Monsanto, St. Louis, MO (181)	180
A NEW MESOTRIONE, GLUFOSINATE AND ISOXAFLUTOLE TOLERANT TRAIT FOR SOYBEAN WEED MANAGEMENT. B. Miller ^{*1} , R. Jain ² , B. Erdahl ³ , A. Silverstone ⁴ , G. Vail ⁵ , J. Allen ⁶ , J. Fischer ⁷ , S. Van Wert ⁸ ; ¹ Syngenta, Minnetonka, MN, ² Syngenta Crop Protection, Vero Beach, FL, ³ Syngenta, Clinton, IL, ⁴ Syngenta, Research Triangle Park, NC, ⁵ Syngenta, Greensboro, NC, ⁶ Bayer CropScience, Research Triangle Park, NC, ⁷ Bayer CropScience, Middleton, WI, ⁸ Bayer CropScience, Monheim, Germany (182)	181
WEED MANAGEMENT PROGRAMS UTILIZING MESOTRIONE IN HERBICIDE TOLERANT SOYBEANS. J. C. Holloway ^{*1} , R. Lins ² , D. Bruns ³ , T. Beckett ⁴ , G. Vail ⁴ ; ¹ Syngenta, Jackson, TN, ² Syngenta, Bryon, MN, ³ Syngenta, Marysville, OH, ⁴ Syngenta, Greensboro, NC (183)	182
UNIVERSITY EVALUATION OF ISOXAFLUTOLE WEED MANAGEMENT PROGRAMS IN HPPD-TOLERANT SOYBEAN SYSTEM. J. Allen ^{*1} , S. Garris ² , M. Weber ³ ; ¹ Bayer CropScience, Research Triangle Park, NC, ² Bayer CropScience, Yazoo City, MS, ³ Bayer CropScience, Indianola, IA (184)	183
PALMER AMARANTH MANAGEMENT AND CROP RESPONSE® IN HPPD TOLERANT SOYBEANS. W. J. Everman ^{*1} , M. Rosemond ² , J. Allen ³ ; ¹ North Carolina State University, Raleigh, NC, ² Bayer CropScience, Raleigh, NC, ³ Bayer CropScience, Research Triangle Park, NC (185)	184
U.S. UNIVERSITY HERBICIDE EFFICACY STUDIES ANALYSIS: CORN AND SORGHUM YIELDS WITH ATRAZINE VERSUS ALTERNATIVES: 2006-2010. R. S. Fawcett [*] ; Fawcett Consulting, Huxley, IA (186)	185
A SURVEY OF WEED MANAGEMENT PRACTICES IN MIDSOUTH SOYBEAN. D. S. Riar ^{*1} , J. K. Norsworthy ¹ , L. E. Steckel ² , D. Stephenson ³ , T. W. Eubank ⁴ , B. Scott ⁵ ; ¹ University of Arkansas, Fayetteville, AR, ² University of Tennessee, Jackson, TN, ³ LSU AgCenter, Alexandria, LA, ⁴ Mississippi State University, Stoneville, MS, ⁵ University of Arkansas, Lonoke, AR (187).....	186
FIELD EVALUATION OF CURRENT GEORGIA SOYBEAN CULTIVARS TO METRIBUZIN. B. H. Blanchett ^{*1} , T. L. Grey ¹ , T. M. Webster ² , E. P. Prostko ¹ , W. K. Vencill ³ ; ¹ University of Georgia, Tifton, GA, ² USDA-ARS, Tifton, GA, ³ University of Georgia, Athens, GA (188).....	187

DOES AT-PLANT FLURIDONE APPLICATIONS REDUCE POSTEMERGENCE HERBICIDE NEEDS IN GLYPHOSATE- AND GLUFOSINATE-TOLERANT COTTON? M. W. Marshall ^{*1} , A. C. York ² , A. S. Culpepper ³ ; ¹ Clemson University, Blackville, SC, ² North Carolina State University, Raleigh, NC, ³ University of Georgia, Tifton, GA (189)	188
THE EFFECT OF REMOVAL TIME AND DENSITY OF VOLUNTEER CORN POPULATIONS ON COTTON GROWTH AND YIELD. A. N. Eytcheson [*] , D. B. Reynolds, R. C. Storey; Mississippi State University, Mississippi State, MS (190).....	189
WEED MANAGEMENT SYSTEMS WITH MULTIPLE MODE OF ACTION PRODUCTS IN GLYPHOSATE TOLERANT SOYBEANS. J. Whitehead ^{*1} , D. Feist ² , G. Wiley ³ , K. Miller ⁴ , D. Downing ⁵ , B. Ahrens ⁶ ; ¹ MANA, Oxford, MS, ² MANA, Ft. Collins, CO, ³ Wiley Ag Consulting, Columbus, IN, ⁴ MANA, Troy, IL, ⁵ MANA, Raleigh, NC, ⁶ MANA, Coralville, IA (191)	P IC
GLYPHOSATE-RESISTANT JOHNSONGRASS CONTROL OPTIONS IN ROUNDUP READY SOYBEAN. D. B. Johnson ^{*1} , J. K. Norsworthy ¹ , H. D. Bell ¹ , B. W. Schrage ¹ , S. S. Rana ¹ , B. Scott ² ; ¹ University of Arkansas, Fayetteville, AR, ² University of Arkansas, Lonoke, AR (192)	191
ISOXAFLUTOLE AND TEMBOTRIONE BASED HERBICIDE PROGRAMS FOR PALMER AMARANTH, PITTED MORNINGGLORY, AND GOOSEGRASS CONTROL IN FIELD CORN. M. W. Marshall [*] ; Clemson University, Blackville, SC (193)	192
EVALUATION OF FIERCE HERBICIDE FOR WEED CONTROL IN COTTON AND PEANUTS. F. Carey ^{*1} , J. Cranmer ² , J. Etheridge ³ , M. Griffin ³ , B. Odle ⁴ , J. Smith ⁵ , J. Pawlak ⁶ ; ¹ Valent USA, Olive Branch, MS, ² Valent USA, Raleigh, NC, ³ Valent USA, Greenville, MS, ⁴ Valent USA, Dallas, TX, ⁵ Valent USA, Atlanta, GA, ⁶ Valent USA, Grand Rapids, MI (194).....	193
EFFICACY OF F9310 (ANTHEM) AND F9312 IN COTTON WEED MANAGEMENT PROGRAMS--2012. S. Akin ^{*1} , S. Wilson ² , R. Mitchell ³ , D. Johnson ⁴ ; ¹ FMC, Monticello, AR, ² FMC, Cary, NC, ³ FMC, Louisville, MS, ⁴ FMC, Madison, MS (195)	194
EVALUATION OF VERDICT IN SOYBEAN ON SANDY LOAM SOILS. J. Tredaway Ducar ^{*1} , C. Burmester ² , B. Meyer ³ , J. W. Keeling ⁴ ; ¹ Auburn University, Crossville, AL, ² Auburn University, Belle Mina, AL, ³ Alabama Farmers Cooperative, Decatur, AL, ⁴ Texas A&M AgriLife Research, Lubbock, TX (232)	195
POSTEMERGENCE HERBICIDE VONTROL OF RHIZOME-ESTABLISHED <i>MISCANTHUS GIGANTEUS</i> . X. Li ^{*1} , T. L. Grey ² , W. K. Vencill ¹ , D. Lee ² ; ¹ University of Georgia, Athens, GA, ² University of Georgia, Tifton, GA (233)	196
HERBICIDE OPTIONS FOR SUPPRESSING BERMUDAGRASS IN SUGARCANE. C. D. Dalley [*] ; USDA-ARS, Houma, LA (234)	197
WEED MANAGEMENT AND WHEAT TOLERANCE TO PYROXASULFONE IN NORTH CAROLINA. L. A. Grier ^{*1} , W. J. Everman ¹ , S. Tan ² , T. E. McKemie ² ; ¹ North Carolina State University, Raleigh, NC, ² BASF Corporation, Research Triangle Park, NC (235)	198
SORGHUM WEED MANAGEMENT AS AFFECTED BY ROW SPACING, PLANT POPULATION, AND HERBICIDE PROGRAM. T. E. Besancon [*] , R. Riar, W. J. Everman, R. Weisz, R. Heiniger; North Carolina State University, Raleigh, NC (236).....	199
WEED MANAGEMENT OPTIONS IN SORGHUM-BASED CROPPING SYSTEMS IN NC. R. Riar [*] , W. J. Everman; North Carolina State University, Raleigh, NC (237).....	200
NEW HERBICIDE OPTIONS FOR RICE PRODUCTION. B. M. McKnight [*] , E. P. Webster, J. C. Fish, N. D. Fickett; LSU AgCenter, Baton Rouge, LA (238)	201

IMPACT OF RICE SEEDING RATE AND HERBICIDE PROGRAM ON BARNYARDGRASS CONTROL IN CLEARFIELD RICE. S. S. Rana*, J. K. Norsworthy, D. B. Johnson, D. S. Riar, H. D. Bell, B. W. Schrage, Z. T. Hill, M. T. Bararpour; University of Arkansas, Fayetteville, AR (239)	202
EVALUATION OF SHARPEN IN CLEARFIELD RICE WEED CONTROL PROGRAM. G. B. Montgomery*, J. A. Bond, H. M. Edwards, S. A. Shinkle, T. W. Eubank; Mississippi State University, Stoneville, MS (240).....	203
INFLUENCE OF RATE AND APPLICATION TIMING ON RICE TOLERANCE TO WARRANT. M. T. Bararpour*, J. K. Norsworthy ¹ , D. B. Johnson ¹ , B. Scott ² ; ¹ University of Arkansas, Fayetteville, AR, ² University of Arkansas, Lonoke, AR (241)	204
INFLUENCE OF ITALIAN RYEGRASS CONTROL PROGRAMS ON CORN AND COTTON. J. A. Bond*, T. W. Eubank, H. M. Edwards, S. A. Shinkle, G. B. Montgomery; Mississippi State University, Stoneville, MS (242)	205
SIMULATING THE SIMULTANEOUS EVOLUTION OF BARNYARDGRASS RESISTANCE TO ALS- AND ACCASE-INHIBITING HERBICIDES IN MIDSOUTH RICE. M. V. Bagavathiannan* ¹ , J. K. Norsworthy ¹ , K. L. Smith ² , P. Neve ³ ; ¹ University of Arkansas, Fayetteville, AR, ² University of Arkansas-Extension, Monticello, AR, ³ University of Warwick, Warwick, England (243).....	206
EVALUATION OF FALL-APPLIED HERBICIDES FOR HENBIT (<i>LAMIUM AMPLEXICAULE</i>) MANAGEMENT. B. C. Woolam*, D. Stephenson, R. L. Landry; LSU AgCenter, Alexandria, LA (244)	207
EFFICACY OF FALL- AND SPRING-APPLIED HERBICIDES FOR THE CONTROL OF HENBIT (<i>LAMIUM AMPLEXICAULE</i>). T. W. Eubank* ¹ , D. Stephenson ² , J. A. Bond ¹ , B. Edwards ³ , R. L. Landry ² , B. C. Woolam ² ; ¹ Mississippi State University, Stoneville, MS, ² LSU AgCenter, Alexandria, LA, ³ Mississippi State University, Starkville, MS, MS (245)	208
DISSIPATION OF OIL- AND WATER-BASED PENDIMETHALIN FORMULATIONS IN HIGH ORGANIC MATTER SOIL . D. C. Odera* ¹ , D. L. Shaner ² ; ¹ University of Florida, Belle Glade, FL, ² USDA, Fort Collins, CO (246)	209
IS THE GRASS REALLY GREENER? A SURVEY OF FORMER EXTENSION WEED SCIENTISTS. J. A. Kendig* ¹ , S. Kelly ² ; ¹ Monsanto, St. Louis, MO, ² The Scotts Company, Apopka, FL (247)	210
EFFECT OF HERBICIDE STRIP WIDTH AND LATE SEASON WEED COMPETITION ON WINE GRAPE GROWTH AND YIELD. W. E. Mitchem* ¹ , K. M. Jennings ² , D. W. Monks ³ , S. Spayd ⁴ , S. L. Meyers ⁵ , H. Lisa ⁴ , B. Smith ⁴ ; ¹ North Carolina State University, Mills River, NC, ² NCSU, Raleigh, NC, ³ North Carolina State University, Raleigh, NC, ⁴ NC State University, Raleigh, NC, ⁵ Mississippi State University, Pontotoc, NC (196).....	212
INFLUENCE OF VEGETATION-FREE STRIP WIDTH ON NEWLY PLANTED NAVAHO BLACKBERRY GROWTH, YIELD, AND FRUIT QUALITY. S. L. Meyers* ¹ , K. M. Jennings ² , D. W. Monks ³ , W. E. Mitchem ⁴ ; ¹ Mississippi State University, Pontotoc, NC, ² NCSU, Raleigh, NC, ³ North Carolina State University, Raleigh, NC, ⁴ North Carolina State University, Mills River, NC (197).....	213
NEWLY ESTABLISHED PECAN TREE RESPONSE TO INDAZIFLAM. T. L. Grey* ¹ , K. S. Rucker ² ; ¹ University of Georgia, Tifton, GA, ² Syngenta, Tifton, GA (198)	214
CROP CIRCLES AND ORGANIC WEED CONTROL. A. J. Price*, T. S. Korneckie; USDA-ARS, Auburn, AL (199)	215
EVALUATION OF WEED CONTROL AND SWEET POTATO TOLERANCE TO ALTERNATIVE HERBICIDES. D. K. Miller* ¹ , T. P. Smith ² , M. M. Mathews ¹ ; ¹ LSU AgCenter, St. Joseph, LA, ² LSU AgCenter, Chase, LA (200)	216

WEED MANAGEMENT IN SWEETPOTATO WITH FLUMIOXAZIN AND PYROXASULFONE. M. W. Shankle* ¹ , T. F. Garrett ¹ , I. A. Abukari ² ; ¹ Mississippi State University, Pontotoc, MS, ² Mississippi State University, Starkville, MS (201)	217
WEED CONTROL AND SWEET POTATO TOLERANCE TO LINURON AND FOMESAFEN. D. K. Miller* ¹ , M. M. Mathews ¹ , T. P. Smith ² ; ¹ LSU AgCenter, St. Joseph, LA, ² LSU AgCenter, Chase, LA (202)	218
WEED CONTROL PROGRAMS FOR SEASON-LONG YELLOW NUTSEDGE CONTROL IN POTATO (<i>SOLANUM TUBEROSUM</i>). C. E. Rouse*, P. J. Dittmar; University of Florida, Gainesville, FL (203)	219
EFFECT OF THIFENSULFURON PRE OR POST ON WEED CONTROL AND TOMATO AND PEPPER TOLERANCE. P. J. Dittmar*; University of Florida, Gainesville, FL (204)	220
CRITICAL WEED-FREE PERIOD IN FRESH MARKET PLASTICULTURE GRAFTED TOMATO. S. Chaudhari* ¹ , K. M. Jennings ² , D. W. Monks ¹ , F. J. Louws ¹ ; ¹ North carolina state university, Raleigh, NC, ² NCSU, Raleigh, NC (205).....	221
EFFECT OF S-METOLACHLOR OR FOMESAFEN PRE FOLLOWED BY IMAZOSULFURON POST FOR SEASON-LONG NUTSEDGE (<i>CYPERUS</i> SPP.) CONTROL IN BELL PEPPER (<i>CAPSICUM ANNUUM L.</i>). M. R. Miller* ¹ , P. J. Dittmar ² ; ¹ Univeristy of Florida, Gainesville, FL, ² University of Florida, Gainesville, FL (206)	222
HERBICIDE DRIFT: PAST, PRESENT, FUTURE. E. P. Webster*; LSU AgCenter, Baton Rouge, LA (207)	223
A FIELD SCALE COMPARISON OF AI AND TTI NOZZLES TO MITIGATE OFF-TARGET MOVEMENT OF CICAMBA. J. L. Cobb ¹ , D. B. Reynolds* ² , J. Irby ² , J. K. Norsworthy ³ , L. E. Steckel ⁴ , A. Mills ⁵ , R. Montgomery ⁶ , J. Sandbrink ⁷ , K. M. Remund ⁸ ; ¹ Mississippi State University, Starkville, MS, ² Mississippi State University, Mississippi State, MS, ³ University of Arkansas, Fayetteville, AR, ⁴ University of Tennessee, Jackson, TN, ⁵ Monsanto, Collierville, TN, ⁶ Monsanto, Union City, TN, ⁷ Monsanto, St. Louis, MO, ⁸ Monsanto Ag Products, St. Louis, MO (208)	224
VOLATILITY AND OFF-TARGET MOVEMENT OF FORMULATIONS CONTAINING COLEX-D TM TECHNOLOGY. J. K. Norsworthy* ¹ , B. Scott ² , D. Stephenson ³ , D. B. Reynolds ⁴ , M. Peterson ⁵ , G. Kruger ⁶ ; ¹ University of Arkansas, Fayetteville, AR, ² University of Arkansas, Lonoke, AR, ³ LSU AgCenter, Alexandria, LA, ⁴ Mississippi State University, Mississippi State, MS, ⁵ Dow AgroSciences, Indianapolis, IN, ⁶ University of Nebraska-Lincoln, North Platte, NE (209)	225
INFLUENCE OF NOZZLE SELECTION AND AUXIN HERBICIDES ON EFFICACY. L. E. Steckel* ¹ , A. S. Culpepper ² , J. K. Norsworthy ³ , A. C. York ⁴ , B. Braxton ⁵ , R. A. Haygood ⁶ , R. Montgomery ⁷ , C. D. Youmans ⁸ ; ¹ University of Tennessee, Jackson, TN, ² University of Georgia, Tifton, GA, ³ University of Arkansas, Fayetteville, AR, ⁴ North Carolina State University, Raleigh, NC, ⁵ Dow AgroSciences, Travelers Rest, SC, ⁶ Dow AgroSciences, Germantown, TN, ⁷ Monsanto, Union City, TN, ⁸ BASF Corporation, Research Triangle Park, NC (210)	228
AUXINIC HERBICIDES: PHYSICAL PARTICLE SIZE AND WHAT IT MEANS FOR DRIFT POTENTIAL. G. Kruger* ¹ , A. Hewitt ² ; ¹ University of Nebraska-Lincoln, North Platte, NE, ² Lincoln Ventures, Lincoln, New Zealand (211)	228
EFFECT OF FORMULATION AND APPLICATION TIME OF DAY ON DICAMBA VOLATILITY UNDER FIELD CONDITIONS. T. C. Mueller* ¹ , D. R. Wright ² , K. M. Remund ² ; ¹ University of Tennessee, Knoxville, TN, ² Monsanto Ag Products, St. Louis, MO (212)	229
STATE CONCERNS WITH USE OF AUXIN HERBICIDES IN COTTON AND SOYBEAN. R. Rivera*; Texas Department of Agriculture, Austin, TX (213)	230
USE AND MANAGEMENT OF ENGENIATM IN DICAMBA TOLERANT CROPPING SYSTEMS, WITH A FOCUS ON MANAGING OFF TARGET APPLICATION RISK. L. L. Bozeman* ¹ , S. J. Bove ² , J. Frihauf ³ , W. E. Thomas ⁴ , D. Pepitone ⁴ ; ¹ BASF, Raleigh, NC, ² BASF, Research Triangle Park, NC, ³ BASF Corporation, Raleigh, NC, ⁴ BASF Corporation, Research Triangle Park, NC (214).....	231

HERBICIDE APPLICATION BEST MANAGEMENT PRACTICES FOR ROUNDUP READY 2 XTEND TECHNOLOGY. R. Montgomery ^{*1} , A. Mills ² , J. Sandbrink ³ , J. N. Travers ⁴ ; ¹ Monsanto, Union City, TN, ² Monsanto, Collierville, TN, ³ Monsanto, St. Louis, MO, ⁴ Monsanto Co., St. Louis, MO (215).....	232
BEST MANAGEMENT PRACTICES UNDER THE ENLIST™ AHEAD STEWARDSHIP PROGRAM. M. Peterson [*] ; Dow AgroSciences, Indianapolis, IN (216)	233
AMICARBAZONE FOR ANNUAL BLUEGRASS CONTROL IN COOL-SEASON TURFGRASS. F. Yelverton ^{*1} , T. Gannon ² , L. Warren ² , M. Jeffries ¹ ; ¹ NCSU, Raleigh, NC, ² North Carolina State University, Raleigh, NC (217).....	234
EVALUATION OF FLAZASULFURON PLUS AMICARBAZONE COMBINATIONS FOR ANNUAL BLUEGRASS CONTROL IN BERMUDAGRASS AND SEASHORE PASPALUM. C. Johnston ^{*1} , P. McCullough ² ; ¹ University of Georgia, Athens, GA, ² University of Georgia, Griffin, GA (218)	235
SOIL TYPE AND ROOTING DEPTH EFFECTS ON AMICARBAZONE AND METHIOZOLIN APPLICATIONS FOR WEED CONTROL IN CREEPING BENTGRASS. J. Brosnan ^{*1} , G. K. Breeden ¹ , S. Calvache ¹ , G. M. Henry ² , T. Cooper ³ , T. J. Serensits ⁴ , J. C. Sorochan ¹ ; ¹ University of Tennessee, Knoxville, TN, ² University of Georgia, Athens, GA, ³ Texas Tech University, Lubbock, TX, ⁴ Penn State University, University Park, PA (219)	236
ANNUAL BLUEGRASS CONTROL IN CREEPING BENTGRASS PUTTING GREENS. R. B. Cross [*] , L. B. McCarty, A. G. Estes; Clemson University, Clemson, SC (220)	237
ANNUAL BLUEGRASS CONTROL IN NON-OVERSEEDED FAIRWAYS. N. J. Gambrell [*] , A. G. Estes, L. B. McCarty; Clemson University, Clemson, SC (221)	238
EVALUATION OF SUREGUARD FOR WINTER WEED CONTROL AND PREEMERGENCE CRABGRASS CONTROL. A. G. Estes [*] , L. B. McCarty; Clemson University, Clemson, SC (222).....	239
CONTROL OF COOL-SEASON BROADLEAF WEEDS, ANNUAL BLUEGRASS AND SMOOTH CRABGRASS USING FLUMIOXAZIN IN DORMANT COMMON BERMUDAGRASS TURF. L. Warren ^{*1} , F. Yelverton ² , T. Gannon ¹ ; ¹ North Carolina State University, Raleigh, NC, ² NCSU, Raleigh, NC (223)	240
ANNUAL BLUEGRASS RESISTANT TO ALS-INHIBITING HERBICIDES. J. S. McElroy ^{*1} , M. L. Flessner ² , R. H. Walker ¹ , S. Chen ¹ ; ¹ Auburn University, Auburn, AL, ² Auburn University, Auburn University, AL (224).....	241
CRABGRASS AND GOOSEGRASS CONTROL WITH DITHIOPYR AND INDAZIFLAM. M. Cox ^{*1} , K. Venner ² , S. D. Askew ² ; ¹ Virginia Tech, Blacksburg, VA, ² Virginia Tech, Blacksburg, VA (225)	242
EVALUATION OF VARIOUS PGRS FOR USE ON BERMUDGRASS ROUGHS. M. D. Carlton ^{*1} , L. B. McCarty ² , J. S. McElroy ³ , F. W. Totten ⁴ ; ¹ University of Tennessee at Martin, Martin, TN, ² Clemson University, Clemson, SC, ³ Auburn University, Auburn, AL, ⁴ University of Tennessee at Martin, Athens, AL (226).....	243
PREEMERGENCE AND POSTEMERGENCE DOVEWEED (<i>MURDANNIA NUDIFLORA</i> Â (L.) BRENAN) CONTROL. J. L. Atkinson [*] , L. B. McCarty, A. G. Estes; Clemson University, Clemson, SC (227) ...	244
PREEMERGENCE CONTROL OF SILVERY THREADMOSS PROTONEM. A. R. Post [*] , D. S. McCall, S. D. Askew; Virginia Tech, Blacksburg, VA (228)	245
PREEMERGENCE CONTROL OF LESPEDEZA IN BERMUDAGRASS. D. Gomez de Barreda ¹ , P. McCullough ^{*2} ; ¹ Polytechnic Univ. of Valencia, Valencia, Spain, ² University of Georgia, Griffin, GA (229).....	246
A SUSPECTED OXADIAZON-RESISTANT GOOSEGRASS POPULATION IN VIRGINIA. S. D. Askew ^{*1} , M. Cox ² , D. R. Spak ³ ; ¹ Virginia Tech, Blacksburg, VA, ² Virginia Tech, Blacksburg, VA, ³ BayerCropScience, Cary, NC (230)	247

MSMA LEACHING POTENTIAL IN A SIMULATED TURFGRASS SYSTEM. G. M. Henry* ¹ , C. M. Straw ¹ , J. Moore-Kucera ² , A. Jackson ² , T. Cooper ² , L. Beck ² ; ¹ University of Georgia, Athens, GA, ² Texas Tech University, Lubbock, TX (231).....	248
EFFECT OF DIURON CONTAMINATED IRRIGATION WATER ON WARM-SEASON TURFGRASSES. J. W. Boyd*; University of Arkansas, Little Rock, AR (256)	P IC
WARM-SEASON TURFGRASS ESTABLISHMENT IN SPRING AFTER FALL INDAZIFLAM APPLICATIONS. S. Sidhu*, P. McCullough; University of Georgia, Griffin, GA (257).....	250
ANNUAL GRASS CONTROL IN WARM-SEASON TUFGRASS. B. J. Brecke*, R. G. Leon, J. Unruh; University of Florida, Jay, FL (258).....	251
DITHIOPYR AND FLORASULAM COMBINATIONS FOR BROADLEAF WEED CONTROL IN TURF. D. L. Loughner ¹ , A. L. Alexander* ² , J. M. Breuninger ³ ; ¹ Dow AgroSciences, Lawrenceville, NJ, ² Dow AgroSciences, LLC, Lawrenceville, GA, ³ Dow AgroSciences LLC, Indianapolis, IN (259)	252
EVALUATION OF HPPD-INHIBITING HERBICIDES FOR WEED CONTROL IN ORNAMENTAL SPECIES. M. A. Cutulle* ¹ , G. R. Armel ² , J. Brosnan ¹ , D. A. Kopsell ¹ , J. J. Vargas ¹ , W. Klingeman ¹ ; ¹ University of Tennessee, Knoxville, TN, ² BASF, Raleigh, NC (260).....	253
POSTEMERGENCE CONTROL OF COMMON CARPETGRASS IN A HYBRID BERMUDAGRASS PUTTING GREEN. J. A. Hoyle*, C. M. Straw, G. M. Henry; University of Georgia, Athens, GA (261).....	254
CONTROL OF AMERICAN BURNWEED (<i>ERECHTITES HIERACIFOLIA</i>) IN TURF. L. B. McCarty*, A. G. Estes; Clemson University, Clemson, SC (262)	255
TOPRAMEZONE FOR BERMUDAGRASS (<i>CYNODON DACTYLON</i>) CONTROL IN TALL FESCUE (<i>FESTUCA ARUNDINACEA</i>). G. K. Breeden*, J. Brosnan; University of Tennessee, Knoxville, TN (263)	256
QUALIPRO NEGATE HERBICIDE FOR PERENNIAL RYEGRASS TRANSITION. S. D. Askew* ¹ , M. Cox ² , J. Corbett ³ ; ¹ Virginia Tech, Blacksburg, VA, ² Virginia Tech, Blacksburg, VA, ³ Qualipro, Clayton, NC (264).....	257
DIFFERENTIAL RESPONSE TO FLUAZIFOP-P-BUTYL IN ZOYSIAGRASS CULTIVARS. R. G. Leon* ¹ , B. J. Brecke ¹ , J. Unruh ¹ , K. E. Kenworthy ² ; ¹ University of Florida, Jay, FL, ² University of Florida, Gainesville, FL (265)	258
EXAMINATION INTO THE GEOGRAPHICAL DISTRIBUTION OF BAHIAGRASS HYBRIDS IN GEORGIA. G. M. Henry*, J. A. Hoyle, C. M. Straw; University of Georgia, Athens, GA (266).....	259
WEED AND BRUSH CONTROL IN TEXAS PASTURES AND RANGELANDS WITH CHAPARRAL® HERBICIDE. V. B. Langston* ¹ , D. C. Cummings ² ; ¹ Dow AgroSciences LLC, The Woodlands, TX, ² Dow AgroSciences LLC, Perry, OK (248).....	260
PASTURE BRUSH CONTROL OPTIONS WITH PASTUREGARD HL HERBICIDE. P. L. Burch* ¹ , E. S. Flynn ² ; ¹ Dow AgroSciences, Christianburg, VA, ² Dow AgroSciences, Ankeny, IA (249).....	261
OUR EXPERIENCE WITH AMINOCYCLOPYRACHLOR IN TENNESSEE PASTURES. N. Rhodes* ¹ , T. D. Israel ² , W. P. Phillips, Jr. ¹ ; ¹ University of Tennessee, Knoxville, TN, ² University of Tennessee Knoxville, Knoxville, TN (250)	262
BRUSH CONTROL IN THE SOUTHERN U.S. WITH AMINOCYCLOPYRACHLOR. M. T. Edwards* ¹ , J. H. Meredith ² , M. L. Link ³ , J. Smith ³ , S. K. Rick ³ ; ¹ E. I. DuPont, Pierre Part, LA, ² DuPont Crop Protection, Memphis, TN, ³ E. I. DuPont, Wilmington, DE (251).....	263
AMINOCYCLOPYRACHLOR PERFORMANCE FOR WEED AND BRUSH MANAGEMENT IN TEXAS. P. A. Baumann* ¹ , J. A. McGinty ² , M. E. Matocha ² ; ¹ Texas AgriLife Extension, College Station, TX, ² Texas A&M AgriLife Extension, College Station, TX (252).....	264

CONTROL OF VARIOUS PASTURE WEEDS WITH AMINOCYCLOPYRACHLOR PREMIXES. B. A. Sellers* ¹ , D. G. Abe ² , J. Ferrell ² ; ¹ University of Florida, 33865, FL, ² University of Florida, Gainesville, FL (253)	265
WEED CONTROL IN SOUTHERN PASTURES WITH AMINOCYCLOPYRACHLOR. J. H. Meredith* ¹ , C. R. Medlin ² , R. N. Rupp ³ , E. P. Castner ⁴ , R. W. Williams ⁵ ; ¹ DuPont Crop Protection, Memphis, TN, ² DuPont Crop Protection, Paradise, TX, ³ DuPont Crop Protection, Edmond, OK, ⁴ DuPont Crop Protection, Weatherford, TX, ⁵ DuPont Crop Protection, Raleigh, NC (254)	266
GROWTH REGULATOR HERBICIDES AND THEIR EFFECT ON THE UPTAKE AND TRANSLOCATION OF GLYPHOSATE. C. Smith*, D. B. Reynolds, J. Massey; Mississippi State University, Mississippi State, MS (267)	267
GLUFOSINATE TOLERANCE MECHANISM IN GLYPHOSATE-RESISTANT PALMER AMARANTH FROM ARKANSAS. R. A. Salas*, G. M. Botha, N. R. Burgos; University of Arkansas, Fayetteville, AR (268)	268
EFFECTS OF GLYPHOSATE ON MINERAL NUTRITION AND DISEASE IN GLYPHOSATE-RESISTANT CROPS. S. O. Duke*; USDA, ARS, Oxford, MS (269)	269
MECHANISM OF GLYPHOSATE RESISTANCE IN TALL WATERHEMP FROM MISSISSIPPI. V. K. Nandula ¹ , J. D. Ray ¹ , D. N. Ribiero ² , Z. Pan ³ , K. N. Reddy* ¹ ; ¹ USDA-ARS, Stoneville, MS, ² Mississippi State University, Starkville, MS, ³ USDA-ARS, Oxford, MS (270)	270
ASSESSMENT OF CORN INJURY FROM GLYPHOSATE USING AIRBORNE REMOTE SENSING. K. N. Reddy* ¹ , Y. Huang ² , S. J. Thomson ² ; ¹ USDA-ARS, Stoneville, MS, ² Crop Production Systems Research Unit, Stoneville, MS (271)	271
INFLUENCE OF WATER QUALITY ON GLYPHOSATE ACTIVITY IN THE TEXAS HIGH PLAINS. M. R. Manuchehri* ¹ , P. A. Dotray ² , T. S. Morris ³ , W. Keeling ² ; ¹ Texas Tech University, Lubbock, TX, ² Texas AgriLife Research, Lubbock, TX, ³ Texas A&M Agrilife Research, Lubbock, TX (272)	272
POTENTIAL IMPROVEMENT IN RICE SEEDLING ESTABLISHMENT AND WEED SUPPRESSION IN REDUCED-INPUT SYSTEMS USING OSMOTICALLY PRE-CONDITIONED SEEDS. D. R. Gealy*, A. M. McClung; USDA-ARS, Stuttgart, AR (273)	273
GIANT RAGWEED COMPETITION IN COTTON. K. Barnett*, L. E. Steckel; University of Tennessee, Jackson, TN (274)	274
WEED SURVEY – SOUTHERN STATES	275

Preface

These PROCEEDINGS of the 66th Annual Meeting of the Southern Weed Science Society contain papers and abstracts of presentations in Houston, TX at the Royal Sonesta Hotel. A list is also included giving the common/trade/code names and manufacturers of herbicides mentioned in the publication. Other information in these PROCEEDINGS includes: biographical data of recipients of the SWSS Distinguished Service, Outstanding Educator, Outstanding Young Weed Scientist, and Outstanding Graduate Student Awards; the Annual Weed Survey; lists of officers and committee chairpersons; minutes of all business meetings; and lists of registrants attending the annual meeting and sustaining members.

Only papers presented at the meeting and submitted to the Editor in the prescribed format for printing are included in the PROCEEDINGS. Papers may be up to five pages in length and abstracts are limited to one page. Authors are required to submit an original abstract according to the instructions available in the Call for Papers and on the SWSS web site (www.swss.ws). The use of commercial names in the PROCEEDINGS neither constitutes an endorsement, nor does the non-use of similar products constitute a criticism by the Southern Weed Science Society.

This document is available as a PDF at the SWSS web site (www.swss.ws).

Theodore M. Webster
Proceedings Editor,
Southern Weed Science Society