

Abstracts & Papers Index

<p>A BELTWIDE REGIONAL ECONOMIC ASSESSMENT OF WEED MANAGEMENT SYSTEMS IN NON-TRANSGENIC AND TRANSGENIC COTTON. J.W. Wilcut, R.M. Hayes, R.L. Nichols, S.B. Clewis, J. Summerlin, D.K. Miller, A. Kendig, J.M. Chandler, D.C. Bridges, B. Brecke, C.E. Snipes, and S.M. Brown; North Carolina State University, Raleigh, NC; University of Tennessee; Cotton Incorporated; Louisiana State University; University of Missouri; Texas A&M University; University of Georgia; University of Florida; and Mississippi State University.</p>	1
<p>TWO PASS WEED CONTROL IN MISSOURI COTTON PRODUCTION. R.M. Cobill, J.A. Kendig, B.A. Hinklin, and P.M. Ezell. University of Missouri - Delta Research and Extension Center, Portageville, MO.</p>	2
<p>SOUTH CAROLINA RESULTS: WEED CONTROL IN GLUFOSINATE-TOLERANT COTTON. E.C. Murdock, M.A. Jones, J.E. Toler, and R.F. Graham.</p>	8
<p>TOLERANCE AND WEED MANAGEMENT IN ROUNDUP READY FLEX COTTON. J.W. Keeling, T.A. Baughman J.D. Everitt, L.L. Lyon, and P.A. Dotray; Texas Agricultural Experiment Station, Lubbock and Texas Cooperative Extension, Vernon.</p>	9
<p>INFLUENCE OF LATE GLYPHOSATE APPLICATIONS IN NARROW ROW COTTON. S.P. Nichols and C.E. Snipes. Mississippi State University, Delta Research and Extension Center, Stoneville, MS.</p>	10
<p>GLYPHOSATE TANK-MIXES FOR LAYBY WEED CONTROL IN COTTON. W.K. Vencill; Department of Crop and Soil Sciences, University of Georgia, Athens, GA 30602-7272.</p>	11
<p>GLYPHOSATE- AND TRIFLOXYSULFURON-BASED WEED CONTROL PROGRAMS IN ROUNDUP READY® COTTON. O.C. Sparks, J.L. Barrentine, and M.R. McClelland; Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville.</p>	12
<p>EFFICACY AND CROP SAFETY OF GLYPHOSATE FORMULATIONS IN ROUNDUP READY™ COTTON. N.W. Buehring, D.B. Reynolds, D.G. Wilson, J.C. Sanders, and L.T. Barber. Mississippi State University, Mississippi State, MS, 39762.</p>	13
<p>NON-GLYPHOSATE TOLERANT COTTON RESPONSE TO SIMULATED DRIFT RATES OF GLYPHOSATE. L.L. Lyon, J.W. Keeling, T.A. Baughman, T.S. Osborne, and P.A. Dotray; Texas Agricultural Experiment Station, Lubbock, Texas Cooperative Extension, Vernon, Oklahoma State University, Altus, Texas Tech University, Lubbock, and Texas Cooperative Extension, Lubbock.</p>	14
<p>POST-DIRECTED OPTIONS IN ROUNDUP-READY COTTON. L.T. Barber, D.G. Wilson, M.T. Kirkpatrick and D.B. Reynolds, Mississippi State University, Mississippi State, MS.</p>	16
<p>TANKMIX COMBINATIONS OF TRIFLOXYSULFURON AND PROMETRYN FOR POST-DIRECTED WEED CONTROL IN COTTON. M.T. Kirkpatrick, L.T. Barber, N.W. Buehring, and D.B. Reynolds Mississippi State University, Mississippi State, MS 39762.</p>	17
<p>INTERFERENCE OF SHARPPOD MORNINGGLORY (<i>IPOMOEA TRICHOCARPA</i> VAR. <i>TRICHOCARPA</i> ELL.) WITH COTTON. G.L. Steele and J.M. Chandler, Texas Agricultural Experiment Station, Texas A&M University, College Station, TX 77843-2474.</p>	18

REAL-TIME SITE-SPECIFIC WEED MANAGEMENT IN COTTON: ECONOMIC EVALUATION AND WEED SPATIAL DISTRIBUTION. I.C. Burke, W.E. Thomas, S.B. Clewis, J.W. Wilcut, F.H. Moody, and J.B. Wilkerson. Department of Crop Science North Carolina State University, Raleigh, NC, and University of Tennessee, Knoxville.	19
WEED MANAGEMENT IN CENTRAL AND SOUTH TEXAS LIBERTY LINK® COTTON SYSTEMS. M.E. Matocha, P.A. Baumann, R.G. Lemon, F.T. Moore, D.J. Pigg, and L.M. Etheredge, Jr. Texas Cooperative Extension College Station, TX 77843.	21
WEED DETECTION AND CLASSIFICATION IN SOYBEAN USING HYPERSPECTRAL REMOTE SENSING. F.S. Kelley, D.R. Shaw, and J.W. Easley; Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS 39762.	22
WEED MANAGEMENT IN GLUFOSINATE-TOLERANT COTTON ON THE TEXAS SOUTHERN HIGH PLAINS. B.C. Burns, P.A. Dotray, Texas Tech University and Texas Cooperative Extension, Lubbock, TX; J.W. Keeling, Texas Agricultural Experiment Station, Lubbock, TX; and W.R. Perkins, Bayer CropSciences, Idalou, TX	23
COTTON RESPONSE TO TANK-MIXES OF ENVOKE WITH FOLIAR INSECTICIDES. D.G. Wilson, D.B. Reynolds, J.C. Sanders, and N.W. Buehring. Department of Plant and Soil Sciences. Mississippi State University, Mississippi State, MS 39762	25
INFLUENCE OF GROWTH STAGE ON SUGAR TRANSLOCATION AND CONTROL OF YELLOW NUTSEDGE. F.E. Groves, K.L. Smith, N.R. Burgos, and J.B. Murphy; University of Arkansas, Southeast Research and Extension Center, Monticello, AR 71656; University of Arkansas, Southeast Research and Extension Center, Monticello, AR 71656; Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR 72704, Department of Horticulture, University of Arkansas, Fayetteville, AR 72704	26
EFFECT OF CARRIER VOLUME ON WHEAT RESPONSE TO SIMULATED ROUNDUP DRIFT. C.A. Roeder, J.L. Griffin, S.A. Harrison, and C.A. Jones. Louisiana State University Agricultural Center, Baton Rouge, LA	28
WEED CONTROL IN TEXAS GRAIN SORGHUM UTILIZING 2,4-D AND SULFONYL UREA COMBINATIONS. M.W. Rowland and B.W. Bean; Texas Agricultural Experiment Station, Bushland.	29
YIELD AND PHYSIOLOGICAL RESPONSE OF PEANUT (<i>ARACHIS HYPOGAEA</i>) TO GLYPHOSATE DRIFT. B.L. Robinson, W.E. Thomas, W.A. Pline, I.C. Burke, D.L. Jordan and J.W. Wilcut; Department of Crop Science, North Carolina State University, Raleigh.	30
PEANUT WEED MANAGEMENT UNDER VARYING ROW PATTERNS AND TILLAGE REGIMES. D.C. Yoder, G.E. MacDonald, B.J. Brecke, D.L. Wright, T.D. Hewitt, and J.T. Ducar; Department of Agronomy, University of Florida, Gainesville, FL, 32611; West Florida Research and Education Center, Jay, FL, 32565; North Florida Research and Education Center, Quincy, FL 32351; North Florida Research and Education Center, Marianna, FL, 32448; Department of Animal & Horticultural Sciences, Berry College, Mt. Berry, GA, 30149.	31
INTERFERENCE OF VARIOUS WEED SPECIES IN PEANUTS. J.B. Willis and D.S. Murray. Department of Plant and Soil Sciences. Oklahoma State University, Stillwater, OK 74078.	32
WEED MANAGEMENT IN PEANUT PLANTED IN VARIOUS ROW PATTERNS. J.E. Lanier, D.L. Jordan, P.D. Johnson, J.F. Spears, and R. Wells. North Carolina State University, Raleigh, NC 27695-7620.	33

RESPONSE OF FIVE PEANUT VARIETIES TO DICLOSULAM AND FLUMIOXAZIN IN TEXAS PEANUT. T.A. Murphree, P.A. Dotray, J.W. Keeling, T.A. Baughman, and W.J. Grichar, Texas Tech University and Texas Agricultural Experiment Station, Lubbock; Texas Cooperative Extension Service, Vernon and Texas Agricultural Experiment Station, Yoakum, TX.	34
WEED CONTROL WITH REDUCED RATES OF CADRE AND PURSUIT IN PEANUT. T.A. Baughman, W.J. Grichar, P.A. Dotray, and J.C. Reed. Texas Cooperative Extension, Texas Agricultural Experiment Station, and Texas Tech University; Vernon, Yoakum, and Lubbock, TX.	35
BROADLEAF SIGNALGRASS (<i>BRACHIARIA PLATYPHYLLA</i>) INTERFERENCE AND MANAGEMENT IN CORN (<i>ZEA MAYS L.</i>). J.L. Alford, R.M. Hayes, T.C. Mueller, University of Tennessee, Knoxville, TN.	36
SUGARCANE SEED RESPONSE TO 2,4-D AND ALTERNATIVES FOR RED MORNINGGLORY CONTROL. J.D. Siebert, J.L. Griffin, C.A. Jones, and K.A. Gravois; Louisiana State University Agricultural Center, Baton Rouge, LA.	37
A COMPARISON OF WEED CONTROL WITH COMMERCIALY AVAILABLE GLYPHOSATE. M.C. Smith, D.R. Shaw, and F.S. Kelley, Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS 39762.	38
DIFFERENTIAL RESPONSE OF RICE VARIETIES TO COMMAND®. W. Zhang, E.P. Webster, C.T. Leon, and C.R. Mudge. Department of Agronomy, Louisiana State University AgCenter, Baton Rouge.	39
VARIETAL TOLERANCE TO COMMAND IN WATER SEEDED RICE. C.R. Mudge, W. Zhang, E.P. Webster, and C.T. Leon. Department of Agronomy, Louisiana State University AgCenter, Baton Rouge.	40
ALTERNATIVE HERBICIDES FOR THE CONTROL OF QUINCLORAC-AND PROPANIL-RESISTANT BARNYARDGRASS. M.S. Malik, R.E. Talbert, E.F. Scherder, M.L. Lovelace, and B.V. Ottis Department of Crop, Soil and Environmental Sciences, University of Arkansas, Fayetteville, AR 72701	41
WEED CONTROL PROGRAMS WITH NEWER RICE HERBICIDES. J.A. Kendig, R. M. Cobill, B.A. Hinklin and P. M. Ezell, University of Missouri Delta Center, Portageville	42
RICE YIELD AND QUALITY AS AFFECTED BY VARIETY AND SEEDING RATE AND RED RICE DENSITY. K.L. Smith, R.C. Scott and N.R. Burgos; University of Arkansas	44
SPRANGLETOP AND RED RICE CONTROL IN CLEARFIELD RICE. M.E. Kurtz. Delta Research and Extension Center, Stoneville, MS 38776.	45
RED RICE GROWTH SUPPRESSION IN CLEARFIELD AND LIBERTY LINK RICE. R.T. Dunand, E.P. Webster, R.R. Dilly, C.T. Leon, and W. Zhang; Louisiana State University Agricultural Center, Crowley and Baton Rouge, LA.	46
THE EFFECT OF FLOODING TIME ON RED RICE CONTROL WITH NEWPATH™ APPLIED AT DIFFERENT RICE STAGES. L.A. Avila, CAPES/Brazil and Texas Agricultural Experiment Station, College Station, TX; G.N. McCauley, Texas Agr. Exp. Stn., Eagle Lake, TX; S.A. Senseman, J.M. Chandler and J.H. O'Barr. Texas Agr. Exp. Stn., College Station, TX.	48

- CLINCHER™ SF COMMERCIAL EXPERIENCE IN SOUTHERN RICE. J.L. Breen¹, K.J. Pellerin² and R.B. Lassiter¹; ¹Dow AgroSciences LLC, Indianapolis, IN 46268; and ²Department of Agronomy, Louisiana State University AgCenter, Baton Rouge, LA 70803. 49
- EVALUATION OF POTENTIAL TANK-MIX PARTNERS FOR CLINCHER IN DRILL-SEEDED RICE. B.J. Williams, A.B. Burns, and D.B. Copes; Northeast Research Station, St. Joseph, La., Louisiana State University Agricultural Center, Baton Rouge, La. 70803. 50
- COMPARISON OF STALE AND CONVENTIONAL SEEDBED SYSTEMS USING NEWPATH IN CLEARFIELD RICE. R.E. Talbert, B.V. Ottis, M.S. Malik, M.L. Lovelace, and E.F. Scherder. University of Arkansas, Fayetteville 72704. 51
- PRE VS. POST FLOOD APPLICATIONS OF REGIMENT IN RICE. J.H. O'Barr, J.M. Chandler and G.N. McCauley. Texas Agricultural Experiment Station, College Station. 52
- EARLY POSTEMERGENCE TANK-MIX PROGRAMS WITH CYHALOFOP FOR RESIDUAL GRASS CONTROL IN RICE. B.V. Ottis¹, R.E. Talbert¹, E.F. Scherder¹, M.L. Lovelace¹, M.S. Malik¹, R.B. Lassiter², and D.R. Gardisser³, ¹Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, ²Dow AgroSciences, Little Rock, ³University of Arkansas Cooperative Extension, Little Rock. 53
- AIM PROGRAMS FOR DRILL-SEEDED RICE (*ORYZA SATIVA*). C.T. Leon, E.P. Webster, W. Zhang, and C.R. Mudge. Louisiana State University AgCenter, Baton Rouge, LA 70803. 54
- BEEF GAINS IN NO TILL VS CONVENTIONAL TILLAGE PRACTICE SYSTEMS. D.L. Bushong and T.F. Peeper; Department of Plant and Soil Sciences, Oklahoma State University, Stillwater 74078. 55
- ON-FARM PERFORMANCE OF CLEARFIELD WHEAT. B.W. Collier, C.R. Medlin, T.F. Peeper, and J.P. Kelley; Department of Plant and Soil Sciences, Oklahoma State University, Stillwater, OK 74078 56
- ITALIAN RYEGRASS CONTROL IN WINTER WHEAT WITH AE F130060 00 PLUS AE F115008 00. H.L. Crooks and A.C. York; Department of Crop Science, North Carolina State University, Raleigh, NC 27695-7620; A.S. Culpepper; Department of Crop and Soil Sciences, University of Georgia, Tifton, GA 31793. 57
- EVALUATION OF MESOSULFURON IN SOFT RED WINTER WHEAT. L.R. Oliver, J.W. Barnes, and J.A. Bond. Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville. 59
- CHEAT AND ITALIAN RYEGRASS CONTROL WITH AE F130060 IN WINTER WHEAT. J.P. Kelley and T.F. Peeper, Department of Plant and Soil Sciences, Oklahoma State University, Stillwater, OK 74078. 60
- WEED MANAGEMENT IN NORTH CAROLINA PEANUTS WITH DUAL MAGNUM, VALOR, STRONGARM, & CADRE. B.L. Robinson, I.C. Burke, J.W. Wilcut and S.B. Clewis; Department of Crop Science, North Carolina State University, Raleigh. 61
- PEANUT PRODUCTION UTILIZING REDUCED RATES OF STRONGARM, VALOR, AND CADRE HERBICIDES. S.D. Willingham, B.J. Brecke, J.T. Ducar, G.E. MacDonald, and C.S. Bray; Department of Agronomy, University of Florida, Gainesville, FL 32611, West Florida Research and Education Center, Jay, FL 32565, and Department of Animal and Horticultural Sciences, Berry College, Mt. Berry, GA 30149 62

- CADRE/FUNGICIDE TANK-MIXES IN PEANUT. E.P. Prostko, R.C. Kemerait, and T.L. Grey, University of Georgia, Tifton, GA 31793. 63
- PEANUT AND WEED RESPONSE TO POSTEMERGENCE APPLICATIONS OF STRONGARM. D.L. Jordan, S.R. Hans, J.E. Lanier, B.R. Robinson, and J.W. Wilcut. North Carolina State University, Raleigh, NC 27695-7620. 64
- WEED CONTROL SYSTEMS IN PEANUT WITH DICLOSULAM POSTEMERGENCE. P.A. Dotray, T.A. Murphree, G.G. Light, W.J. Grichar, J.W. Keeling, T.A. Baughman, and V.B. Langston. Texas Tech University, Lubbock; Texas Agricultural Experiment Station, Lubbock and Yoakum; and Texas Cooperative Extension, Vernon; and Dow AgroSciences, The Woodlands, TX. 65
- WEED MANAGEMENT IN NORTH CAROLINA PEANUTS WITH SPARTAN, STRONGARM, VALOR, CADRE, AND STORM. S.B. Clewis, J.W. Wilcut, and D.L. Jordan; Department of Crop Science, North Carolina State University; Raleigh, NC 27695. 66
- MESOTRIONE EFFECTIVENESS IN TEXAS PANHANDLE CORN. B.W. Bean and M.W. Rowland. Texas Cooperative Extension and Texas Agricultural Experiment Station, Amarillo. 67
- WEED CONTROL IN SOUTHERN FIELD CORN WITH OPTION. C.L. Main, T.C. Mueller, R.M. Hayes, G.N. Rhodes, Jr., and G.K. Breeden. University of Tennessee. 68
- TANK MIXTURES FOR POTENTIAL IMPROVEMENT OF ROUNDUP READY SOYBEAN WEED CONTROL. J.W. Easley, D.R. Shaw, and C.J. Gray; Department of Plant and Soil Science, Mississippi State University, Mississippi State, MS 39762. 69
- MIX-SEEDED SOYBEAN: AN INTEGRATED WEED MANAGEMENT STRATEGY. J.K. Norsworthy; Department of Crop & Soil Environmental Science; Clemson University; Clemson, SC 29634. 70
- EFFICACY AND ECONOMICS OF BURNDOWN PROGRAMS FOR EARLY-PLANTED SOYBEAN IN THE MISSISSIPPI DELTA. D.H. Poston, M.A. Blaine, and R.M. Griffin. Delta Research and Extension Center, Stoneville, MS 38776; Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS 39762. 71
- Section II. Weed Management in Turf, Pastures, and Rangeland**
- BERMUDAGRASS TOLERANCE TO IMAZAPIC AND 2,4-D AS INFLUENCED BY APPLICATION PARAMETERS. P.A. Baumann, L.M. Etheredge, Jr., F.T. Moore, M.E. Matocha and T.J. Butler; Texas Cooperative Extension, College Station, TX 77843-2474. . . . 73
- EFFECT OF VARIOUS HERBICIDES ON NEWLY ESTABLISHED BERMUDAGRASS. T.J. Butler and J. Tredaway Ducar. Texas A&M Research and Extension Center, Stephenville, TX 76401 and Berry College, Mt. Berry, GA 30149. 74
- EFFECT OF VARIOUS HERBICIDES ON YIELD OF ESTABLISHED 'COASTAL' BERMUDAGRASS. T.J. Butler. Texas A&M Research and Extension Center, Stephenville, TX 76401. 75
- EFFECT OF TIMING APPLICATION OF PLATEAU ON 10 NEWLY SEEDED GRASSES. T.J. Butler. Texas A&M Research and Extension Center, Stephenville, TX 76401. 76
- TRUMPETCREEPER AND HORSENETTLE CONTROL IN BERMUDAGRASS AND FESCUE HAY. L.S. Warren, Jr., T.W. Gannon and F.H. Yelverton; Department of Crop Science, North Carolina State University, Raleigh, NC 27695. 77

EVALUATION OF GRAZON P+D AND REDEEM R&P FOR WEED CONTROL IN COOL SEASON GRASSES. G.K. Breeden, R.L. Sliger and G.N. Rhodes, Jr., University of Tennessee.	78
TROPICAL SODA APPLE: EVALUATION OF NEW FORMULATIONS FOR BURNDOWN AND RESIDUAL CONTROL. J. Tredaway Ducar, J.J. Mullahey, W.N. Kline, and M.J. Zielinski; Berry College, Mt. Berry, GA; University of Florida, Jay, FL; and Dow AgroSciences, LLC, Indianapolis, IN.	79
COMPARISON OF NEW POTENTIAL HERBICIDES FOR WEED CONTROL IN PASTURES AND RANGELAND. J. Tredaway Ducar, W.M. Price, W.N. Kline, and M.J. Zielinski, Berry College, Mt. Berry, GA; Lake County Cooperative Extension Service, Tavares, FL; and Dow AgroSciences LLC, Indianapolis, IN.	80
WEEDY GRASS CONTROL IN FORAGE BERMUDAGRASS. J.W. Boyd, B.S. Griffin and S. Milliken. University of Arkansas Cooperative Extension. Fayetteville, AR	81
POSTEMERGENCE CONTROL OF VIRGINIA BUTTONWEED (<i>DIODIA VIRGINIANA</i>) IN BERMUDAGRASS (<i>CYNODON DACTYLON</i>). B.J. Tucker*, L.B. McCarty, and A.E. Estes. Clemson University, Department of Horticulture, Clemson, SC. 29634-0375.	82
RESPONSE OF JOHNSONGRASS, SOUTHERN CRABGRASS AND FORAGE BERMUDAGRASS TO IMAZAPIC. T.R. Murphy, The University of Georgia. Griffin, GA 30223.	83
INFLUENCE OF APPLICATION TIMING ON THE PERFORMANCE OF FUEGO™ AND PLATEAU®. F.T. Moore, P.A. Baumann, L.M. Etheredge, Jr., and M.E. Matocha; Texas Cooperative Extension, College Station, TX 77843.	84
NEW HERBICIDE OPTIONS FOR SEEDING COOL-SEASON TURFGRASS IN SPRING. S.D. Askew, J.B. Beam, and W.L. Barker; Department of Plant Pathology, Physiology, and Weed Science, Virginia Polytechnic Institute & State University, Blacksburg, VA 24061.	85
SELECTIVE ROUGHSTALK BLUEGRASS CONTROL IN COOL-SEASON TURFGRASS. S.D. Askew, W.L. Barker, and J.B. Beam; Department of Plant Pathology, Physiology, and Weed Science, Virginia Polytechnic Institute & State University, Blacksburg, VA 24061.	87
SELECTIVE BENTGRASS CONTROL IN COOL-SEASON ROUGHS. J.B. Beam, W.L. Barker, and S.D. Askew; Department of Plant Pathology, Physiology, and Weed Science, Virginia Polytechnic Institute & State University, Blacksburg, VA 24061.	89
ANNUAL RYEGRASS CONTROL IN NEWLY-SEEDED FESCUE AND KENTUCKY BLUEGRASS. J.B. Beam, W.L. Barker, and S.D. Askew; Department of Plant Pathology, Physiology, and Weed Science, Virginia Polytechnic Institute & State University, Blacksburg, VA 24061.	90
EVALUATING HERBICIDAL INJURY TO SOD FORMING TURFGRASSES IN SOD PRODUCTION. R.D. Havlak, W.G. Menn, W.J. Grichar, B.M. Batchelor, B.A. Besler, M. Hall, R.L. Jahn, A.J. Jaks, J.D. Nerada, and D. Robinson; Texas Cooperative Extension, College Station, Bay City, and Wharton; Texas Agricultural Experiment Station, Yoakum.	91
POSTEMERGENCE DALLISGRASS (<i>Paspalum dilatatum</i>) CONTROL. A.G. Estes and L.B. McCarty. Clemson University, Department of Horticulture, Clemson, SC 29634-0375	92

CENTIPEDEGRASS TOLERANCE TO HERBICIDES APPLIED DURING ESTABLISHMENT. T.W. Gannon and F.H. Yelverton; Department of Crop Science, North Carolina State University, Raleigh, NC 27695.	93
CONTROL OF TROPICAL SIGNALGRASS (<i>Urochloa subquadriflora</i>) IN ST. AUGUSTINEGRASS SOD PRODUCTION. T.C. Teuton, B.J. Brecke, J.B. Unruh, G.E. MacDonald, G.L. Miller, J.T. Ducar and T.C. Mueller; Department of Agronomy, University of Florida, Gainesville, FL 32611; West Florida Research and Education Center, Jay, FL 32565; Department of Animal and Horticultural Sciences, Berry College, Mt. Berry, GA 30149; and University of Tennessee, Knoxville, TN 37996.	94
KYLLINGA (<i>Kyllinga odorata</i>) CONTROL IN TIFWAY BERMUDAGRASS. P.J. Brown, L.B. McCarty, and A.G. Estes. Clemson University, Clemson, SC 29634	95
PROSTRATE KNOTWEED CONTROL IN BERMUDAGRASS ROUGHS. W.L. Barker, J.B. Beam, and S.D. Askew; Department of Plant Pathology, Physiology, and Weed Science, Virginia Polytechnic Institute & State University, Blacksburg, VA 24061.	96
FLAZASULFURON TOLERANCE IN VARIOUS TURFGRASS SPECIES. N.B. Pool, B.J. Brecke, J.B. Unruh, G.E. MacDonald; West Florida Research and Education Center, Jay, FL 32565	97
FLAZASULFURON FOR WEED MANAGEMENT IN WARM-SEASON TURFGRASS. B.J. Brecke and J.B. Unruh; West Florida Research and Education Center, University of Florida, Milton, FL 32583.	98
ROOT VERSUS FOLIAR SENSITIVITY OF GOOSEGRASS TO AEF130360. G.R. Wehtje, W.A. Williams, and R.H. Walker; Alabama Agric. Exp. Stn., Auburn University, AL 36849-5412.	99
EARLY POSTEMERGENCE CRABGRASS CONTROL WITH PENDIMETHALIN AND DITHIOPYR. J.W. Boyd, University of Arkansas Cooperative Extension, Fayetteville, AR 72704.	100
WEED CONTROL AND TURFGRASS TOLERANCE TO FLAZASULFURON. F.H. Yelverton, T.W. Gannon, J.D. Hinton, and L.S. Warren; Department of Crop Science, North Carolina State University, Raleigh, NC 27695.	101
EFFICACY OF FLUROXYPYR IN WARM-SEASON TURFGRASSES. F.C. Waltz, Jr., T.R. Murphy, University of Georgia, Griffin, GA 30223, B.J. Brecke, University of Florida, Milton 32583, and D.W. Lickfeldt Dow AgroSciences, Indianapolis, IN 46268	102
PURPLE NUTSEdge CONTROL IN BERMUDAGRASS WITH SULFONYLUREA HERBICIDES. J.D. Hinton and F.H. Yelverton. Department of Crop Science. North Carolina State University, Raleigh, N.C.	104
THE EFFECTS OF POSTEMERGENCE HERBICIDES ON CENTIPEDEGRASS SEED PRODUCTION. J.A. Ferrell, T.R. Murphy, W.K. Vencill, University of Georgia, Athens, GA 30602; and Griffin, GA 30223	105
POSTEMERGENCE CONTROL OF GOOSEGRASS IN BERMUDAGRASS TURF WITH FORAMSULFURON. J.L. Belcher, R. H. Walker, and G.R. Wehtje; Department of Agronomy and Soils, Auburn University, AL 36849	106

Section III. Weed Management in Horticultural Crops

TOMATO AND WEED RESPONSE TO TRIFLOXYSULFURON-SODIUM APPLIED AT-PLANT OR POSTEMERGENCE. A.S. Culpepper, Department of Crop and Soil Sciences, University of Georgia, Tifton, GA 31793 and W.M. Stall, Department of Horticultural Science, University of Florida, Gainesville, FL 32611. 107

YELLOW NUTSEDGE CONTROL WITH METHAM-SODIUM IN TRANSPLANTED CANTALOUPE. W.C. Johnson, III; USDA-ARS, Coastal Plain Experiment Station, Tifton, GA 31793. 109

NUTSEDGE CONTROL AND BELL PEPPER PRODUCTION WITH REDUCED RATES OF METHYL BROMIDE APPLIED UNDER VIRTUALLY IMPERMEABLE FILM. T.N. Motis¹, J.P. Gilreath¹, and J.W. Noling²; ¹University of Florida, Bradenton, FL 34203, ²University of Florida, Lake Alfred, FL 33850. 110

SUPPRESSION OF PURPLE NUTSEDGE (*CYPERUS ROTUNDUS*) IN BELL PEPPER (*CAPSICUM ANNUUM*) WITH THE POTENTIAL BIOHERBICIDE (*DACTYLARIA HIGGINSII*). J.P. Morales-Payan^{1,2} R. Charudattan², W.M. Stall¹, and J.T. DeValerio²; ¹Horticultural Sciences Department and ² Department of Plant Pathology, University of Florida, Gainesville. 111

SWEET POTATO TOLERANCE AND WEED CONTROL WITH FLUMIOXAZIN. S.T. Kelly¹, H.L. Carroll², J.M. Cannon² and M.W. Shankle³; LSU AgCenter, Winnsboro¹, LA 71295, Sweet Potato Research Station, Chase², LA 71324, and Mississippi State University, Pontotoc, MS, 38863. 112

POTENTIAL HERBICIDES FOR USE IN OKRA (*ABELMOSCHUS ESCULENTUS* (L.) MOENCH). R.B. Batts and A.S. Culpepper, North Carolina State University, Raleigh, and University of Georgia, Tifton 114

BIOCHEMICAL RESPONSE OF SOUTHERNPEA TO BENTAZON, ACIFLUORFEN, AND FOMESAFEN. E.N. Stiers, N.R. Burgos, S. N. Rajguru, and V.K. Shivrain; Department of Crop, Soil and Environmental Sciences, Fayetteville, AR; T.E. Morelock; Department of Horticulture, University of Arkansas, Fayetteville, AR. 115

FALL VEGETABLE RESPONSE TO HALOSULFURON, METOLACHLOR, AND SULFENTRAZONE SPRING APPLIED UNDER PLASTIC. T.L. Grey, A.S. Culpepper, and T.M. Webster. Crop and Soil Sciences, The University of Georgia and USDA/ARS, Tifton, GA. 116

WILD CHRYSANTHEMUM (*Artemisia vulgaris* L.) MANAGEMENT IN FALLOW LAND PRIOR TO ORNAMENTAL PLANT PRODUCTION. D.K. Robinson¹, D. Fare² and M. Halcomb³. ¹ Plant Sciences and Landscape Systems, The University of Tennessee, Knoxville; ² USDA-ARS, McMinnville, TN; ³ U.T. Agricultural Extension Service, McMinnville, TN. . . 118

Section IV. Forest Vegetation Management

A COMPARISON OF TREATMENT TIMING AND HERBICIDES FOR CONTROL OF CHINESE PARASOL TREE, AN INVASIVE ORNAMENTAL. B.R. Chandler; Louisiana State University AgCenter, Clinton, LA; R.J. Lencse and R.E. Strahan; Louisiana State University AgCenter, Baton Rouge, LA. 119

HERBACEOUS WEED CONTROL STRATEGIES FOLLOWING SITE PREPARATION WITH CHOPPER HERBICIDE ON LOWER COASTAL PLAIN SITES. H.E. Quicke* and D.K. Lauer; BASF Corporation, Auburn, AL and Silvics Analytic, Richmond, VA. 120

INCLUSION OF SULFOMETURON METHYL IN PINE RELEASE TREATMENTS PROVIDES HERBACEOUS WEED CONTROL THE FOLLOWING GROWING SEASON. A.W. Ezell, J.L. Yeiser, and L.R. Nelson; Mississippi State University, Starkville, MS; Stephen F. Austin State University, Nacogdoches, TX; and Clemson University, Clemson, SC. 122

PREEMERGENT vs. POSTEMERGENT HERBACEOUS WEED CONTROL APPLICATIONS IN SLASH PINE PLANTATIONS: SECOND YEAR RESULTS. A.W. Ezell and J.L. Yeiser; Mississippi State University, Starkville, MS and Stephen F. Austin State University, Nacogdoches, TX.	124
HERBACEOUS WEED CONTROL WITH THE NEW OUST FORMULATION. A.W. Ezell and J.L. Yeiser; Mississippi State University, Starkville, MS and Stephen F. Austin State University, Nacogdoches, TX.	126
TIMING OF CHOPPER HERBICIDE RELATIVE TO BEDDING ON LOWER COASTAL PLAIN PINE SITES. D.K. Lauer* and H.E. Quicke; Silvics Analytic, Richmond, VA and BASF Corporation, Auburn, AL.	131
ESTABLISHING HARDWOOD PLANTATIONS WITH CHOPPER, ACCORD, AND OUST COMBINATIONS. J.L. Yeiser; Arthur Temple College of Forestry, Stephen F. Austin State University, Nacogdoches, TX 75962.	133
SCREENING IMPROVED OUST XP, ESCORT XP, AND VELPAR DF COMBINATIONS FOR WEED CONTROL AND SLASH PINE PERFORMANCE. J.L. Yeiser; Arthur Temple College of Forestry, Stephen F. Austin State University, Nacogdoches, TX 75962.	140
A COMPARISON OF GARLON 4 AND TRICLOPYR 4E. J.L. Yeiser. Arthur Temple College of Forestry, Stephen F. Austin State University, Nacogdoches, TX 75962; A.W. Ezell. Department of Forest Resources, Mississippi State University, Mississippi State, MS 39762.	145
COMPARING ISOPROPYLAMINE AND DIAMMONIUM SALT FORMULATIONS OF GLYPHOSATE FOR FOREST SITE PREPARATION. L.R. Nelson and A.W. Ezell. Clemson University, Clemson, SC and Mississippi State University, Mississippi State, MS.	149
EFFECTS OF VELPAR AND SODIUM CARBONATE ON SOIL MOISTURE AND LOBLOLLY PINE GROWTH. C.L. Ramsey and S. Jose; University of Florida, Milton campus, Milton FL. 32583.	150
USE OF TERRASORB AND SEAWEED EXTRACTS TO IMPROVE LOBLOLLY PINE GROWTH. C.L. Ramsey and S. Jose; University of Florida, Milton campus, Milton FL. 32583.	151
SPLIT-SEASON HERBICIDE TREATMENTS FOR FULL SEASON HERBACEOUS WEED CONTROL: 2 ND YEAR RESULTS. R.A. Williams, J.A. Earl, J.L. Yeiser, and A.W. Ezell; University of Arkansas at Monticello, University of Arkansas at Monticello, Stephen F. Austin State University, Nacogdoches TX, and Mississippi State University, Starkville.	152
VANTAGE USE IN PINE PLANTINGS FOR BERMUDA CONTROL. J.A. Earl and R.A. Williams; Arkansas Agricultural Experiment Station and School of Forest Resources, University of Arkansas at Monticello, 71656.	156
Section V. Utility, Railroad & Highway Rights-of-Way, Industrial Sites	
EFFECTS OF OUTFRIDER TANK-MIXED WITH ROUNDUP PRO OR MON 59166 FOR CONTROL OF JOHNSONGRASS (<i>Sorghum halepense</i>). R.S. Wright, G.E. Coats, and J.M. Taylor. Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS 39762.	157

- INTEGRATED APPROACHES TO COGONGRASS [*Imperata cylindrica* (L.) Beauv.] MANAGEMENT. M.C. Barron, G.E. MacDonald, B.J. Brecke, and D.G. Shilling; Department of Agronomy, University of Florida, Gainesville, FL, 32611; West Florida Research and Education Center, Jay, FL, 32565; Mid-Florida Research and Education Center, Apopka, FL, 32703. 158
- MUSK THISTLE CONTROL ALONG OKLAHOMA ROADSIDES. D.P. Montgomery, L.M. Cargill and D.L. Martin; Horticulture and Landscape Architecture Department, Oklahoma State University, Stillwater, OK 74078. 159
- AN UPDATE ON SERICEA LESPEDEZA (*Lespedeza cuneata* [Dumont] G. Don) CONTROL FROM ROADSIDE TRIALS IN OKLAHOMA. L.M. Cargill, D.P. Montgomery and D.L. Martin; Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. 160
- EFFECT OF SPRAY SOLUTION pH and TANK-MIXES ON OUTRIDER FOR JOHNSONGRASS CONTROL. J.M. Taylor, G.E. Coats, and R.S. Wright; Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS 39762 161
- COGONGRASS (*IMPERATA CYLINDRICA*): MANAGEMENT TACTICS ON RIGHTS-OF-WAY. W.H. Faircloth, M.G. Patterson, D.H. Teem, Auburn University, Auburn, AL; and J.H. Miller, U.S.Forest Service, Southern Research Station, Auburn, AL. 162
- SINGLE- AND DOUBLE-PASS HERBICIDE TREATMENTS WITH SAME SEASON PLANTING FOR YAUPON INFESTED PINE SITES IN SOUTHERN LOUISIANA. J.L. Yeiser; Arthur Temple College of Forestry, Stephen F. Austin State University, Nacogdoches, TX 75962. 163
- Section VI. Physiological and Biological Aspects of Weed Control**
- CHARACTERIZATION OF PUTATIVE HYBRIDS BETWEEN IMAZETHAPYR RESISTANT RICE AND RED RICE (*ORYZA SATIVA* L.). V.K. Shivrain, N.R. Burgos, E.N. Stiers, K.A.K. Moldenhauer, and D.R. Gealy; Department of Crop, Soil and Environmental Sciences, University of Arkansas, AR 72701 and USDA-ARS, Dale Bumpers - National Rice Research Center, Stuttgart, AR 72160. 169
- EFFECT OF GLYPHOSATE ON POLLINATION AND SEED SET IN GLYPHOSATE-RESISTANT CORN. W.E. Thomas, W.A. Pline*, J.W. Wilcut, K.L. Edmisten, J.F. Thomas, and R. Wells; Department of Crop Science, North Carolina State University, Raleigh, NC; * Lead Characterisation, Syngenta, Bracknell, Berkshire, UK. 171
- THE INFLUENCE OF GLYPHOSATE ON FRUIT RETENTION IN ROUNDUP READY COTTON. J.C. Sanders, D.B. Reynolds, L.T. Barber, and M.T. Kirkpatrick. Mississippi State University. Mississippi State, MS 39762. 172
- BIOLOGY OF SLENDER AMARANTH SEED GERMINATION. W.E. Thomas, J.F. Spears, I.C. Burke, and J.W. Wilcut; Department of Crop Science, North Carolina State University, Raleigh, NC. 173
- HERBICIDE IMPACTS ON TOMATO SPOTTED WILT VIRUS IN PEANUT. (*ARACHIS HYPOGAEA*). N.P. Shaikh, G.E. MacDonald and B.J. Brecke, Department of Agronomy, University of Florida, Gainesville, FL, 32611 174
- PHYSIOLOGICAL BEHAVIOR OF ROOT-ABSORBED FLUMIOXAZIN IN PEANUT, IVYLEAF MORNINGGLORY, AND SICKLEPOD. A.J. Price, J.W. Wilcut, and J.R. Cranmer, North Carolina State University and Valent USA. 175

- PHYSIOLOGICAL AND MORPHOLOGICAL RESPONSE OF GLYPHOSATE-RESISTANT AND NON-GLYPHOSATE-RESISTANT COTTON SEEDLINGS TO ROOT-ABSORBED GLYPHOSATE. J.W. Wilcut, W.A. Pline, K.L. Edmisten, and R. Wells; North Carolina State University, Raleigh, NC; Syngenta Crop Protection, Bracknell, Berkshire, UK. 176
- INVESTIGATION OF POTENTIAL QUINCLORAC RESISTANCE MECHANISMS IN A MULTIPLE-RESISTANT BARNYARDGRASS BIOTYPE. M.L. Lovelace, R.E. Talbert, R.E. Hoagland, and E.F. Scherder. University of Arkansas, Fayetteville, Arkansas. 177
- WEED SHIFTS FOLLOWING PASTURE CONVERSION WITH FIVE YEARS OF SOYBEAN PRODUCTION. C.J. Gray, D.R. Shaw, F.E. LaMastus-Sanford and J.W. Easley. Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS 39762. 178
- INFLUENCE OF CROWNBEARD (*VERBESINA ENCELIOIDES*) DENSITIES ON PEANUT (*ARACHIS HYPOGAEA*) YIELD. R.L. Farris and D.S. Murray. Department of Plant and Soil Sciences. Oklahoma State University, Stillwater, OK 74078. 179
- CENTIPEDEGRASS (*EREMOCHLOA OPHUROIDES*) / CARPETGRASS (*AXONOPUS COMPRESSUS*) TOLERANCE TO POSTEMERGENCE HERBICIDES. C.J. Cox, L.B. McCarty, J.E. Toler, and A.G. Estes. Clemson University. Clemson, South Carolina 29634-0375. 180
- MORPHOLOGICAL IDENTIFICATION AND CHARACTERIZATION OF ARKANSAS PITTED MORNINGGLORY (*IPOMOEA LACUNOSA*) ACCESSIONS. D.O. Stephenson, IV, and L.R. Oliver; Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville. 181
- HERBICIDE TOLERANCE/WEED CONTROL IN WILDLIFE FOOD PLOTS-SESAME, CHUFA, JAPANESE MILLET, BROWNTOP MILLET, LAB-LAB. E.C. Murdock, L.R. Nelson, J.E. Toler, and R.F. Graham, Clemson University, Florence, SC 29506. 182
- TROPICAL SPIDERWORT COLONIZES NORTH CAROLINA: ECOLOGY AND CONTAINMENT OF A NOXIOUS WEED. M.G. Burton, A.C. York, J.F. Spears and T.W. Rufty; Department of Crop Science, NC State University, Raleigh 183
- SIMPLE SEQUENCE REPEATS ANALYSIS OF HYBRIDIZATION BETWEEN IMI RICE AND RED RICE. L.E. Estorninos Jr¹, D.R. Gealy², T.L. Baldwin¹, F.L. Baldwin³, and N.R. Burgos¹. Dept. of Agronomy, University of Arkansas, Fayetteville, AR¹, Dale Bumpers National Rice Research Center, USDA-ARS, Stuttgart, AR², and Practical Weed Consultants, L.L.C., Austin, AR³ 184
- PHENOTYPIC AND GENOTYPIC CHARACTERISTICS OF HAND-CROSSED MALE STERILE RICE X RED RICE HYBRIDS IN THE SOUTHERN U.S. D.R. Gealy, W. Yan, and J.N. Rutger. Dale Bumpers National Rice Research Center, USDA-ARS, Stuttgart, AR 185
- GROWTH AND REPRODUCTIVE ABILITY OF IMIDAZOLINONE-SENSITIVE AND -RESISTANT SMOOTH PIGWEED. W.A. Bailey and H.P. Wilson. Virginia Tech, Eastern Shore Agricultural Research and Extension Center, Painter VA 23420 186
- MORPHOLOGICAL CHARACTERISTICS OF THE ARKANSAS DICLOFOP-RESISTANT RYEGRASS POPULATION. M.T. Bararpour, L.R. Oliver, and N.R. Burgos; Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville. 187

CHARACTERIZATION OF GLYPHOSATE INTERACTION WITH TRIFLOXYSULFURON ON GRASS AND BROADLEAF WEEDS. C.H. Koger* and K.N. Reddy; USDA-ARS, Southern Weed Science Research Unit, Stoneville, MS 38776. 188

A COMPARISON OF RIMSULFURON TRANSFORMATION RATES IN TOMATO (*LYCOPERSICON ESCULENTUM*) AND PEPPER (*CAPSICUM ANNUM*). R.S. Buker III, W.M. Stall, B. Rathinasabapathi, G. MacDonald, and S.M. Olson. 189

EFFECT OF TEMPERATURE, LIGHT, PH AND OSMOTIC POTENTIAL ON THE GERMINATION OF SOME CITRUS WEEDS. S. Singh and M. Singh, University of Florida-IFAS, Citrus Research and Education Center, Lake Alfred, Florida. 190

EVALUATION OF RED RICE GENETIC DIVERSITY USING SSR PRIMERS. S.N. Rajguru, N.R. Burgos, J.M. Stewart, D.R. Gealy, and C.H. Sneller. Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR 72701, USDA-ARS, Dale Bumpers National Rice Research Center, Stuttgart, AR 72160, and Horticulture and Crop Science, Ohio State University, Columbus, OH 43210 191

EFFECT OF POPULATION DENSITY AND DURATION OF INTERFERENCE OF PURPLE NUTSEDGE ON THE YIELD OF BELL PEPPER. J.P. Morales-Payan and W.M. Stall; Horticultural Sciences Department. University of Florida, Gainesville. 192

INFLUENCE OF BARNYARDGRASS ON RICE STINK BUG POPULATIONS IN RICE. K.V. Tindall, B.J. Williams, and M.J. Stout. Louisiana State University Agricultural Center, Baton Rouge, LA 70808. 193

Section VII. Educational and Regulatory Aspects of Weed Management

EFFECT OF SOYBEAN ROW SPACING ON HADSS YIELD LOSS ESTIMATES. A. Rankins, Jr. and M.C. Smith, Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS 39762. 195

HADSS VALIDATION FOR USE IN MISSISSIPPI COTTON. A. Rankins, Jr., W.F. Bloodworth, and D.B. Reynolds, Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS 39762. 197

INCREASING EXPERIENCE OF USING HADSS IN PEANUT BY COOPERATIVE EXTENSION FIELD FACULTY. A. Cochran, C. Ellison, M. Shaw, A. Whitehead, M. Williams, M. Rayburn, G. Wilkerson, and D. Jordan. North Carolina State University, Raleigh, NC 27695-7620. 199

DEVELOPMENT AND IMPLEMENTATION OF A LARGE SCALE HYDRILLA CONTROL MONITORING PROGRAM. D.E. Sanders and T.M. Hymel; LSU AgCenter, Idlewild Resarch Station, Clinton, LA 70722 and Iberia Research Station, Jeanerette, LA 70544 200

THE POWER OF STATISTICAL TESTS OF HERBICIDE TRIALS IN FOREST NURSERIES. C.L. VanderSchaaf, D.B. South; School of Forestry and Wildlife Sciences, Auburn University, AL 36849 and P.F. Doruska. School of Forest Resources, University of Arkansas, Monticello, AR. 71656. 202

AN OVERVIEW AND TUTORIAL ON THE USE OF ADOBE ACROBAT TO SEARCH THE PROCEEDINGS OF THE SWSS. D.B. Reynolds, Mississippi State University, Mississippi State. 212

THE SITE SELECTION PROCESS FOR THE SWSS ANNUAL MEETING. T.C. Mueller, University of Tennessee, Knoxville, TN 213

Section VIII. Developments From Industry

- UTILIZING AIM HERBICIDE AS A HARVEST AID TREATMENT. T.I. Crumby, H.R. Mitchell and J.P. Reed, FMC Corporation, Bolton MS, Louisville MS and North Little Rock, AR . 214
- TRIFLOXYSULFURON SODIUM FOR CONTROL OF WEEDS IN WARM SEASON GRASSES IN THE SOUTH. L.D. Houseworth, R.J. Keese, D.M. Mosdell. Syngenta Crop Protection, Greensboro, NC 27419. 216
- FORAMSULFURON (REVOLVER™): SPRING TRANSITION OF PERENNIAL RYEGRASS TO BERMUDAGRASS. L.C. Mudge, A.M. Wiese, J.E. Merrick, D. Myers, H.C. Olsen and J.L. Corbett, Bayer Environmental Science, Montvale, NJ. 07645 217
- FORAMSULFURON (REVOLVER™): WARM SEASON TURF TOLERANCE AND WEED CONTROL. A.M. Wiese, J.E. Merrick, L.C. Mudge, D. Myers, H.C. Olsen and J.L. Corbett, Bayer Environmental Science, Montvale, NJ. 07645 217
- TRIFLOXYSULFURON-SODIUM (CGA362622) AS AN OVERSEEDING TRANSITION AID. R.J. Keese, L.D. Houseworth and D. Ross. Syngenta Crop Protection, Greensboro, NC . . 218
- ATTRIBUTES OF ROUNDUP WEATHERMAX™, AN ALTERNATE SALT FORMULATION OF GLYPHOSATE. J.A. Koscelny, D.H. Heering, J.J. Sandbrink and P.G. Ratliff, Monsanto Company, St. Louis, MO 63167. 219
- ANNUAL RYEGRASS CONTROL WITH OSPREY HERBICIDE IN WINTER WHEAT. M.D. Paulsgrove, S.S. Hand, J. Sanderson, L. Hall, M. Rosemond, M. Ehlhardt, S. Garris; Bayer CropScience RTP, NC 27709. 220
- BARRAGE® HF, A NOVEL 2,4-D FORMULATION TECHNOLOGY FOR PRE-PLANT BURNDOWN. M.M. Kenty, J.M. Thomas, S. Pace, and F. Yopp. Helena Chemical Company, Collierville, TN. 221
- ENVOKE™: COTTON TOLERANCE AND YIELD. S.M. Schraer, H.S. McLean, J.C. Holloway, C.A.S. Pearson, and C. Foresman; Syngenta Crop Protection, Greensboro, NC . . 223
- SUPREND™, A POST DIRECTED HERBICIDE FOR COTTON. J.C. Holloway, Jr., S.M. Schraer, C.A.S. Pearson, C. Foresman, H.S. McLean. Syngenta Crop Protection, Greensboro, NC . . 224
- 2002 FIELD RESULTS OF ROUNDUP READY® FLEX COTTON TRIALS. J. Hart, A. Martens, B. Sammons, E. Cerny, S. Huber, M. Oppenhuizen, Monsanto Company, St. Louis, MO 225
- Section IX. Application Technology**
- WEED CONTROL WITH LIGHT ACTIVATED SPRAYER: A THREE YEAR STUDY. D.A. Peters, Texas Tech University, Lubbock, TX; P.A. Dotray, Texas Tech University and Texas Agricultural Experiment Station; and J.W. Keeling, Texas Agricultural Experiment Station. 226
- UTILIZING SITE-SPECIFIC TECHNOLOGIES TO RECOMMEND AND APPLY PESTICIDES AND GROWTH REGULATORS IN COTTON. J.C. Sanders, D.B. Reynolds, N.W. Buehring, D.G. Wilson, and C.G. O'Hara. Mississippi State University. Mississippi State, MS 39762. 228
- EVALUATION OF VARIABLE-RATE HERBICIDE APPLICATION IN SOYBEAN. A.J. Price, D.W. Krueger, G. Roberson, G.G. Wilkerson, and A.C. Bennett, North Carolina State University and The University of Florida. 229
- DIFFERENTIATION OF TURFGRASS STRESS WITH HYPERSPECTRAL RADIOMETRY. K.C. Hutto, D.R. Shaw, and G.E. Coats; Department of Plant and Soil Sciences, Mississippi State University, Mississippi State. 230

Section X. Soil & Environmental Aspects of Weed Science	
ADSORPTION AND DESORPTION OF ATRAZINE FROM VARIOUS LAKE SEDIMENTS IN TEXAS. J.A. Vader, and S.A. Senseman, Department of Soil and Crop Sciences, Texas Agricultural Experiment Station College Station, Texas 77843 and M.C. Dozier, Department of Soil and Crop Sciences, Texas Cooperative Extension College Station, Texas 77843.	231
DISSOLVED ATRAZINE AND ATRAZINE METABOLITE RETENTION IN BUFFALOGRASS FILTER STRIPS. L.J. Krutz ^{1*} , S.A. Senseman ¹ , M.C. Dozier ² , D.W. Hoffman ³ , and D.P. Tierney ⁴ . ¹ Department of Soil and Crop Sciences, Texas Agricultural Experiment Station, Texas A&M University, College Station, TX, ² Department of Soil and Crop Sciences, Texas Cooperative Extension, Texas A&M University, College Station, TX, ³ Blackland Research Center, Texas Agricultural Experiment Station, Temple, TX, ⁴ Environmental Stewardship and Regulatory Policy, Syngenta Crop Protection, Greensboro, NC	232
REDUCED METHANE EMISSIONS FROM RICE GROWN USING INTERMITTENT IRRIGATION. J.H. Massey, E.F. Scherder, R.E. Talbert, R.M. Zablotowicz, M.A. Locke, M.A. Weaver, M.C. Smith, R.S. Steinreide, and B.V. Ottis, Mississippi State University, Starkville 39762; University of Arkansas, Fayetteville 72704; USDA-ARS Southern Weed Science Lab, Stoneville, MS 38776.	233
BARNYARDGRASS (<i>ECHINOCHLOA CRUS-GALLI</i>) CONTROL IN AN INTERMITTENT RICE IRRIGATION SYSTEM. E.F. Scherder, R.E. Talbert, M.L. Lovelace, B.V. Ottis, M.S. Malik, and J.D. Branson. University of Arkansas, Fayetteville, AR 72704 and University of Arkansas, Stuttgart, AR 72160.	234
WATER SAMPLING FOR HERBICIDE ANALYSIS IN THE UPPER PEARL RIVER WATERSHED: A TMDL APPROACH. M.L. Tagert, J.H. Massey, D.R. Shaw, and M.C. Smith. Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS 39762.	235
QUINCLORAC: SOIL BEHAVIOR AND FOLIAR VERSUS ROOT ABSORPTION BY TORPEDOGRASS (<i>Panicum repens</i>). W.A. Williams, G.R. Wehtje, and R.H. Walker; Alabama Agric. Exp. Stn., Auburn University, AL 36849-5412.	236
EVALUATION OF CLOPYRALID, FLUROXYPYR, IMAZAPYR, AND TRICLOPYR FOR SCOTCHBROOM CONTROL. M.P. Blair, S.M. Zedaker; Department of Forestry, Virginia Tech, Blacksburg, VA 24061; P.L. Burch; Dow Agrosociences, Christiansburg, VA 24073. . .	237
SELECTIVE CRABGRASS REMOVAL FROM TALL FESCUE AND ZOYSIAGRASS. M.F. Gregg*, L.B. McCarty, and A.G. Estes. Department of Horticulture, Clemson University, Clemson, S.C. 29634-0375.	238
DOWNWARD MOVEMENT OF PESTICIDES IN BERMUDAGRASS VS FALLOW SOIL SYSTEMS. H.D. Cummings, F.H. Yelverton, J.B. Weber, and R.B. Leidy; Crop Science Department, North Carolina State University, Raleigh, NC 27695-7620	239
CAN VARIOUS APPLICATION METHODS IMPROVE COGONGRASS [<i>Imperata cylindrica</i> (L.) Beauv.] CONTROL? K.D. Burnell and J.D. Byrd, Jr.; Mississippi State University, MS.	240
POSTEMERGENCE <i>POA ANNUA</i> CONTROL IN DORMANT BERMUDAGRASS. B.T. Bunnell*, L.B. McCarty, C.J. Cox, and A.E. Estes. Clemson University, Department of Horticulture, Clemson, SC. 29634-0375.	241

ENVIRONMENTAL INFLUENCE ON LEAF COLOR OF COGONGRASS. C.T. Bryson* and C.H. Koger, USDA-ARS, Southern Weed Science Research Unit, Stoneville, MS 38776; and J.D. Byrd, Jr., Department of Plant and Soil Sciences, Mississippi State University, MS 39762. 242

RELATIONSHIP OF TOPOGRAPHY TO EDAPHIC FACTORS AND *KYLLINGA BREVIFOLIA* POPULATIONS IN GOLF COURSE FAIRWAYS. J.S. McElroy, F.H. Yelverton, and M.G. Burton, North Carolina State University, Raleigh, NC 27695-7620. . . . 243

BEST MANAGEMENT PRACTICES IN CORN TO REDUCE OFF-TARGET LOSSES OF ATRAZINE IN SURFACE RUNOFF. M.C. Dozier, P.A. Baumann, S.A. Senseman, K.H. Carson, F.T. Moore, L.M. Etheredge, and A.S. Sciumbato, Texas Cooperative Extension And Texas Agricultural Experiment Station; Department of Soil and Crop Sciences, Texas A&M University, College Station, TX 77843-2474 244

Section XI. Posters

THE NATIONAL PESTICIDE USE DATABASE. L.P. Gianessi and S. Sankula. National Center for Food and Agricultural Policy, Washington, DC. 245

GROWTH RESPONSES OF OUST APPLIED TO MULTIPLE SPECIES PLANTINGS IN THE MISSISSIPPI RIVER DELTA. R.A. Williams and J.A. Earl; Arkansas Agricultural Experiment Station and School of Forest Resources, University of Arkansas at Monticello, 71656. 247

PRE- AND POST-EMERGENT HERBICIDE EFFECTS ON SURVIVAL AND GROWTH FOR MIXED HARDWOOD PLANTING OF CRP LANDS IN THE MISSISSIPPI RIVER DELTA. J.A. Earl and R.A. Williams; Arkansas Agricultural Experiment Station and School of Forest Resources, University of Arkansas at Monticello, 71656. 250

SMOOTH PIGWEED AND LIVID AMARANTH INTERFERENCE WITH CUCUMBER. A.D. Berry, W.M. Stall, B. Rathinasabapathi, Horticultural Sciences Department, University of Florida, Gainesville, FL 32611, G.E. MacDonald, Agronomy Department, University of Florida, Gainesville, FL 32611, and R. Charudattan, Plant Pathology Department, University of Florida, Gainesville, FL 32611. 253

EFFECT OF CLOMAZONE AT DRIFT RATES ON SEEDLING PECANS (*Carya illinoensis*). M.S. Malik, R.E. Talbert, E.F. Scherder, M.L. Lovelace. Department of Crop, Soil and Environmental Sciences, University Of Arkansas, Fayetteville, AR 72701 254

WEED CONTROL IN WATERMELON (*CITRULLUS LANATUS*) AND SQUASH (*CUCURBITA PEPO* L.) WITH STRATEGY. K.D. Brewer, B.A. Besler, W.J. Grichar, and J.J. LeClair; Texas Agricultural Experiment Station, Yoakum, TX 77995 and United Agric Products, Corinth, TX 76210. 255

TOLERANCE OF SWEET POTATO TO DIMETHENAMID AND METOLACHLOR. S.T. Kelly¹, H.L. Carroll² and J.M. Cannon², LSU AgCenter, Winnsboro¹, LA 71295 and Sweet Potato Research Station, Chase², LA 71324 256

EFFECT OF COVER CROP, TILLAGE, AND WEED COMPETITION ON BLACK BEAN YIELDS. C.L. Webber III and J.W. Shrefler; USDA, Agricultural Research Service, South Central Agricultural Research Laboratory and Oklahoma State University, WWAREC, Lane, OK 74555. 257

IR-4 PROJECT: UPDATE ON WEED CONTROL PROJECTS. M. Arsenovic, F.P. Salzman, M.P. Braverman, D.L. Kunkel, and J.J. Baron. 258

TIMELY MOWING DRASTICALLY REDUCES SICKLEPOD REPRODUCTIVE BIOMASS IN SWEETPOTATO. M.G. Burton; Department of Crop Science, NC State University, Raleigh.	259
CRABGRASS CONTROL IN COOL-SEASON TURF WITH THE WET BLADE SYSTEM. W.L. Barker, J.B. Beam, and S.D. Askew; Department of Plant Pathology, Physiology, and Weed Science, Virginia Polytechnic Institute & State University, Blacksburg, VA 24061. . .	260
HORSENETTLE (<i>SOLANUM CAROLINENSE</i>) CONTROL WITH GRAZON P+D® IN TALL FESCUE PASTURES. J.E. Beeler, T.C. Mueller, G.N. Rhodes Jr., and G.E. Bates; University of Tennessee, Department of Plant Science and Landscape Systems, Knoxville, TN 37996. . .	261
JIGGS BERMUDAGRASS RESPONSE TO PLATEAU. J.D. Nerada and W.J. Grichar; Texas Agricultural Experiment Station, Yoakum, TX.	262
EARLY SEASON AND PREHARVEST HERBICIDES FOR TRUMPETCREEPER (<i>CAMPISIS RADICANS</i>) CONTROL IN GLYPHOSATE-RESISTANT SOYBEANS. M.W. Marshall and J.D. Green; Department of Agronomy, University of Kentucky, Lexington.	263
WEED CONTROL STRATEGIES FOR SHORT-SEASON CORN IN A TRIPLE CROP ROTATION. C.E. Brewer and L.R. Oliver; Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville.	264
ANNUAL BROADLEAF WEED CONTROL IN CLEARFIELD AND ROUNDUP READY CORN SYSTEMS. W.T. Willian, Department of Agriculture, Western Kentucky University, Bowling Green.	265
BROADLEAF SIGNALGRASS CONTROL IN ROUNDUP READY NO-TILLAGE CORN. M.W. Shankle and T.F. Garrett; Mississippi State University, Pontotoc Ridge-Flatwoods Experiment Station, Pontotoc, MS 38863.	266
EFFECT OF NEWPATH RATE AND TIMING ON WEED CONTROL IN RICE. B.J. Williams, D.B. Copes, and A.B. Burns; Northeast Research Station, St. Joseph, La., Louisiana State University Agricultural Center, Baton Rouge, La. 70803.	268
CORN RESPONSE TO PREPLANT APPLICATIONS OF VALOR. A.B. Burns, B.J. Williams and D.B. Copes; Northeast Research Station, St. Joseph, La., Louisiana State University Agricultural Center, Baton Rouge, La. 70803.	269
ECONOMIC IMPACT OF PERENNIAL WEEDS IN NO-TILL ROW CROPS OF KENTUCKY. C.L. Brommer and W.W. Witt; Department of Agronomy, University of Kentucky, Lexington, KY 40546.	270
WEED CONTROL AND CROP INJURY IN GRAIN SORGHUM WITH POSTEMERGENCE PICLORAM APPLICATION. B.W. Bean, M.W. Rowland, and B.L. Porter; Texas Cooperative Extension and Texas Agricultural Experiment Station, Amarillo, Texas 79106.	271
GRAIN SORGHUM TOLERANCE AND WEED CONTROL USING VALOR AT DIFFERENT APPLICATION TIMINGS AND RATES. B.A. Besler, W.J. Grichar, K.D. Brewer and J.C. Braun. Texas Agricultural Experiment Station, Yoakum, TX 77995 and Valent USA Corporation, Richardson, TX 75080.	272
SORGHUM RESPONSE TO SIMULATED DRIFT RATES OF GLYPHOSATE. L.L. Lyon, J.W. Keeling, B.W. Bean, M.W. Rowland, and P.A. Dotray; Texas Agricultural Experiment Station, Lubbock and Texas Cooperative Extension, Bushland.	273

- ECONOMICS OF PREHARVEST DESICCANTS IN MATURITY GROUP III SOYBEAN. R.M. Griffin, D.H. Poston, D.R. Shaw, and M.C. Smith; Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS; and Delta Research and Extension Center, Stoneville, MS. 274
- SOYBEAN ROW SPACING AND SEEDING RATE INFLUENCE ON CANOPY CLOSURE AND SICKLEPOD CONTROL. R.R. Dobbs, N.W. Buehring, and M.P. Harrison; Mississippi State University, Verona, MS 38879. 276
- CONTROLLING VOLUNTEER GLYPHOSATE-TOLERANT CORN IN ROUNDUP READY SOYBEANS. M.A. Thompson and R.M. Hayes, Department of Plant Sciences and Landscape Systems, University of Tennessee West Tennessee Experiment Station, Jackson; J.A. Kendig, Department of Agronomy, University of Missouri Delta Research Center, Portageville. 278
- UTILIZING TRIFLOXYSULFURON IN WEED CONTROL SYSTEMS FOR FLORIDA SUGARCANE. A.C. Bennett; Everglades Research and Education Center, University of Florida, Belle Glade. 279
- EFFICACY OF TRIFLOXYSULFURON-SODIUM (ENVOKE™) IN BXN™ AND ROUNDUP READY™ COTTON SYSTEMS. J.L. Alford and R.M. Hayes; University of Tennessee, Knoxville. 280
- COMPARISON OF GLYPHOSATE FORMULATIONS IN ROUNDUP READY CROPS. R.G. Parker and A.C. York, Department of Crop Science, North Carolina State University, Raleigh; A.S. Culpepper, University of Georgia, Tifton. 282
- CONTROL OF ROUNDUP-READY VOLUNTEER COTTON. J.C. Reed, T.A. Baughman, J.W. Keeling, and P.A. Dotray; Texas A&M Research and Extension Center and Texas Tech University, Vernon and Lubbock, TX. 283
- EVALUATION OF LIBERTY FOR CONTROL OF COMMON LOUISIANA COTTON WEEDS. T.B. McKnight¹, S.T. Kelly¹, D.K. Miller² and P.R. Vidrine³; LSU AgCenter, Winnsboro¹, St. Joseph² and Alexandria³, LA. 284
- EFFECT OF OVER-THE-TOP AND POSTEMERGENCE DIRECTED APPLICATIONS OF ENVOKE ON COTTON GROWTH AND YIELD. D.K. Miller, P.R. Vidrine, S.T. Kelly, and D.R. Lee; LSU AgCenter, Baton Rouge, LA. 285
- EVALUATION OF SUPREND FOR WEED CONTROL IN COTTON. D.R. Lee, D.K. Miller, P.R. Vidrine, and S.T. Kelly, LSU AgCenter, Baton Rouge, LA. 286
- BROADLEAF WEED AND THRIPS CONTROL WITH ENVOKE/INSECTICIDE COMBINATIONS. D.K. Miller, R.G. Downer, J.W. Wilcut, E. Burris, R.W. Costello, D.R. Lee, and K. Sanders, LSU AgCenter, Baton Rouge, LA and North Carolina State University, Raleigh, NC. 287
- EVALUATION OF GRAMOXONE MAX TANKMIX COMBINATIONS FOR MARESTAIL CONTROL IN NORTHEAST LOUISIANA. D.R. Lee, D.K. Miller, and S.T. Kelly, LSU AgCenter, Baton Rouge, LA. 289
- ANNUAL WEED CONTROL SYSTEMS USING STAPLE/GLYPHOSATE COMBINATIONS. J.D. Everitt, J.W. Keeling, L.L. Lyon, and P.A. Dotray; Texas Agricultural Experiment Station, Lubbock, TX. 290

- USING EPOST COTTON HERBICIDES TO CONTROL VOLUNTEER PEANUTS. W.J. Grichar, T.A. Baughman, J.W. Wilcut, B.A. Besler, and K.D. Brewer. Texas Agricultural Experiment Station, Yoakum; Texas Cooperative Extension, Vernon; North Carolina State University, Raleigh. 291
- WEED CONTROL AND SPECIES SHIFT IN ROUNDUP READY AND BXN COTTON ROTATION SYSTEMS. K.N. Reddy, USDA-ARS, Southern Weed Science Research Unit, Stoneville, MS 38776. 292
- WEED MANAGEMENT PROGRAMS WITH TRIFLOXYSULFURON (ENVOKE) IN COTTON. M.R. McClelland, J.L. Barrentine, and O.C. Sparks; Department of Crop, Soil, and Environmental Sciences, Fayetteville 293
- ROUNDUP VERSUS PRE PLUS POST HERBICIDE WEED CONTROL IN RR/BT COTTON. M.P. Harrison, N.W. Buehring, R.R. Dobbs and G. Stapleton. Northeast Branch Experiment Station; North Mississippi Research and Extension Center; Mississippi State University; Verona, MS 38879; BASF Corporation, Dyersburg, Tennessee. 295
- WEED MANAGEMENT WITH DUAL MAGNUM AND GLYPHOSATE COMBINATIONS IN COTTON. S.B. Clewis and J.W. Wilcut; Department of Crop Science, North Carolina State University, Raleigh, NC. 296
- TWO-YEAR ASSESSMENT OF 2,4-D PREPLANT INTERVALS IN COTTON. P.R. Vidrine, S.T. Kelly, D.K. Miller, E.P. Millhollon, A.M. Stewart, LSU Agricultural Center, Baton Rouge; P.A. Dotray, J.W. Keeling, W.J. Grichar, Texas Tech Univ. and Texas Agricultural Experiment Station, Lubbock; C.B. Guy, G&H Associates, Tillar, AR; R.M. Hayes, Univ. of Tennessee, Jackson; J.A. Kendig, Univ. of Missouri, Portageville; C.E. Snipes, D.B Reynolds, Mississippi State Univ., Stoneville and Starkville; C.H. Tingle, Univ. of Arkansas, Keiser; A.C. York, J.W. Wilcut, North Carolina State Univ., Raleigh; B.J. Brecke, Univ. of Florida, Milton; D.S. Murray, J.C. Banks, Oklahoma State Univ., Stillwater; E.C. Murdock, Clemson Univ., Florence, SC; J.M. Chandler, Texas Agricultural Experiment Station, College Station; K.L. Smith, Univ. of Arkansas, Monticello; M.G. Patterson, Auburn Univ., Auburn Univ., AL; A.S. Culpepper, Univ. of Georgia, Tifton and Athens; and M.M. Kenty and J. Thomas, Helena Chemical Company, Collierville and Memphis, TN 297
- COMMON RAGWEED, MORNINGGLORY, AND PEANUT RESPONSE TO STRONGARM RATES AT DIFFERENT POST TIMINGS. W.J. Everman, S.B. Clewis, J.W. Wilcut; Department of Crop Science, North Carolina State University, Raleigh, NC. 298
- EFFICACY OF FOUR-WAY TANK MIXTURES APPLIED TO PEANUT (*ARACHIS HYPOGAEA* L.). S.R. Hans, D.L. Jordan, J.E. Lanier, A.C. York, and J.W. Wilcut. Department of Crop Science, North Carolina State University, Raleigh, NC 27695. 300
- GEORGIA PEANUT (*ARACHIS HYPOGAEA*) RESPONSE TO FLUMIOXAZIN TIMING, RATE AND FORMULATION. T.L. Grey*, E.P. Prostko*, W.K. Vencill**, and W.C. Johnson, III***. College of Agriculture and Environmental Sciences, University of Georgia, Tifton* and Athens**, and USDA/ARS***, Tifton, GA. 301
- POTENTIAL SAFENERS FOR COMMAND IN WATER-SEEDED RICE. C.R. Mudge, E.P. Webster, W. Zhang, and C.T. Leon Department of Agronomy, Louisiana State University AgCenter, Baton Rouge. 302
- WEED SUPPRESSION POTENTIAL IN INDICA RICE LINES FOR THE SOUTHERN U.S. D.R. Gealy, H.L. Black, W. Yan, and J.N. Rutger. Dale Bumpers National Rice Research Center, USDA-ARS, Stuttgart, AR 303

- EFFECT OF NEWPATH RATE AND TIMING ON WEED CONTROL IN RICE. B.J. Williams, D.B. Copes, and A.B. Burns; Northeast Research Station, St. Joseph, La., Louisiana State University Agricultural Center, Baton Rouge, La. 70803. 304
- MESOTRIONE AND FLUMIOXAZIN IN RICE. B.A. Hinklin, J.A. Kendig, R.M. Cobill and P.M. Ezell, University of Missouri Delta Center, Portageville, MO 63873 305
- EFFECTS OF BARNYARDGRASS DENSITY ON RICE YIELDS. K.V. Tindall, B.J. Williams, E.P. Webster and M.J. Stout. LSU Ag. Center, Baton Rouge, LA 70803 306
- ITALIAN RYEGRASS (*LOLIUM MULTIFLORUM*) CONTROL WITH WHEAT HERBICIDES. J.R. Martin, D.L. Call, and J. James; Department of Agronomy, University of Kentucky, Princeton. 307
- EVALUATION OF NEW WEED MANAGEMENT OPTIONS IN WHEAT. G.N. Rhodes, Jr. and G.K. Breeden; University of Tennessee 309
- USING GLOBAL POSITIONING SYSTEMS TO DETECT COGONGRASS (*IMPERATA CYLINDRICA* L.) IN CONJUNCTION WITH MISSISSIPPI'S ERADICATION PROGRAM. R.S. Wright, J.D. Byrd, Jr., L.M. Bruce, and K.D. Burnell; Mississippi State University, Mississippi State, MS 39762. 310
- ENVIRONMENTAL APPLICATIONS OF REMOTE SENSING: DETERMINATION OF CROP RESIDUES ON SOIL SURFACES USING HYPERSPECTRAL REFLECTANCE. W.G. Powell, J.H. Massey, M.S. Cox, L.M. Bruce, D.L. Evans, M.L. Tagert and D.R. Shaw, Department of Plant & Soil Sciences, Mississippi State University, Starkville 39762. 311
- ASSESSMENT OF SAMPLING TECHNIQUES FOR GENERATION OF SITE-SPECIFIC SPRAY MAPS IN SOYBEAN. J.W. Easley, D.R. Shaw, and M.L. Tagert; Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS 39762. 312
- UTILIZING SPECTRAL REFLECTANCE DATA TO MONITOR MATURITY OF AGRONOMIC CROPS. M.T. Kirkpatrick, J.C. Sanders, L.T. Barber, N.W. Buehring, D.G. Wilson, and D.B. Reynolds, Mississippi State University, Mississippi State, MS. 313
- THE USE OF A POINT-INJECTION SPRAYER IN SITE-SPECIFIC MANAGEMENT PROGRAMS. L.T. Barber, J.C. Sanders, N.W. Buehring and D.B. Reynolds, Mississippi State University, Mississippi State. 314
- SPRAY DROPLET COMPARISONS FOR GLYPHOSATE FORMULATIONS. J.E. Hanks, USDA-ARS, Stoneville, MS; G.D. Wills and E.J. Jones, Delta Research and Extension Center, Stoneville, MS and J.A. Mills, Monsanto, Collierville, TN. 316
- IMPROVED EFFICACY OF GLYPHOSATE WITH ADJUVANTS. M. Singh and S. Singh, University of Florida-IFAS, Citrus Research and Education Center, Lake Alfred, FL 33850. 317
- EFFECTS OF ADJUVANTS AND SPRAY DROPLET SIZE ON VELVETLEAF CONTROL. J.A. Garr, II, GARRCO Products, Inc., Converse, IN; J.E. Hanks, USDA-ARS, Stoneville, MS; G.D. Wills and E.J. Jones, Delta Research and Extension Center, Stoneville, MS. 318
- EFFECT OF DRIFT CONTROL ADJUVANTS ON GLYPHOSATE APPLIED WITH AIR INDUCTION SPRAY NOZZLES. G.D. Wills¹, J.E. Hanks², E.J. Jones¹, and R.E. Mack³, Miss. Agric. And Forest. Exp. Stn.¹, USDA-ARS², Stoneville, MS, and Helena Chemical Co., Memphis, TN³ 319

- EFFECT OF DRIFT CONTROL ADJUVANTS ON GLYPHOSATE APPLIED WITH EXTENDED RANGE SPRAY NOZZLES. E.J. Jones¹, J.E. Hanks², G.D. Wills¹, and R.E. Mack³, Miss. Agric. And Forest. Exp. Stn.¹, USDA-ARS², Stoneville, MS, and Helena Chemical Co., Memphis, TN³ 321
- THE EFFECT OF SUBLETHAL RATES OF GLYPHOSATE ON SHIKIMATE ACCUMULATION IN CORN (*ZEAMAYS*). N.W. Buehring, J. H. Massey, and D.B. Reynolds. Mississippi State University, Mississippi State, MS 39762. 323
- YIELD AND PHYSIOLOGICAL RESPONSE OF FLUE-CURED TOBACCO TO GLYPHOSATE DRIFT. I.C. Burke, W.E. Thomas, B.L. Robinson, L.R. Fisher, W.D. Smith, and J.W. Wilcut, Department of Crop Science, North Carolina State University, Raleigh, NC. 324
- GLYPHOSATE/MICRONUTRIENT INTERACTIONS IN NORMAL AND GLYPHOSATE-RESISTANT SOYBEAN. D.M. Dodds¹, D.M. Huber², M.V. Hickman², and D.R. Shaw¹.
¹Department of Plant and Soil Sciences, Mississippi State University, Mississippi State.
²Department of Botany and Plant Pathology, Purdue University, West Lafayette. 325
- SURFACTANTS AFFECT THE EFFICACY OF THE POTENTIAL MYCOHERBICIDE *PHOMOPSIS AMARANTHICOLA* TO SUPPRESS *AMARANTHUS LIVIDUS* IN BELL PEPPER. J.P. Morales-Payan^{1,2}, R. Charudattan², W.M. Stall¹, and J.T. DeValerio².
¹Horticultural Sciences Department and ²Department of Plant Pathology. University of Florida, Gainesville. FL 32611-0690. 326
- ULTRASTRUCTURAL STUDIES OF THE BIOHERBICIDAL FUNGUS *MYROTHECIUM VERRUCARIA* ON KUDZU (*PUERARIA LOBATA*). K.C. Vaughn and C.D. Boyette*, USDA-ARS, Southern Weed Science Research Unit, Stoneville, MS. 327
- COMPETITION STUDIES TO EVALUATE SUPPRESSION OF SMOOTH AMARANTH (*AMARANTHUS HYBRIDUS*) AND YELLOW NUTSEDEGE (*CYPERUS ESCULENTUS*) BY THREE LEGUMINOUS COVER CROPS. A.S. Collins, C.A. Chase, W.M. Stall, and C.M. Hutchinson. University of Florida, Gainesville, FL 32611** 328
- SEED GERMINATION CHARACTERISTICS OF TROPICAL SIGNALGRASS (*Urochloa subquadriflora*). T.C. Teuton, B.J. Brecke, J.B. Unruh, G.E. MacDonald, G.L. Miller, and J.T. Ducar; Department of Agronomy, University of Florida, Gainesville, FL 32611; West Florida Research and Education Center, Jay, FL 32565; Department of Animal and Horticultural Sciences, Berry College, Mt. Berry, GA 30149. 329
- ALLELOPATHIC POTENTIAL OF CENTIPEDEGRASS. T.W. Gannon and F.H. Yelverton; Department of Crop Science, North Carolina State University, Raleigh, NC 27695. 330
- IMPACT OF POSTEMERGENCE METOLACHLOR APPLICATIONS, TILLAGE, AND ROW SPACING ON LATE-SEASON ANNUAL GRASS INFESTATIONS. D.H. Poston, T.H. Koger, and R.M. Griffin. Delta Research and Extension Center, Stoneville, MS 38776 and USDA-ARS Southern Weed Science Research Unit, Stoneville, MS 38776 331
- WEED EMERGENCE PATTERNS IN THE COASTAL PLAIN. T.M. Webster, CPMRU, USDA-ARS, Tifton, GA 31794. 333
- VERIFICATION OF RESISTANCE TO ALS-INHIBITORS IN A NORTH CAROLINA COCKLEBUR (*XANTHIUM STRUMARIUM*). R.B. Batts, A.C. York, and R.G. Parker, North Carolina State University, Raleigh 334

- SEED HYDRATION-DEHYDRATION IN AN ALLELOCHEMICAL AFFECTS SEED GERMINATION AND SEEDLING GROWTH. L.K. Peal, R.D. Williams and P.W. Bartholomew, USDA-ARS, Langston University, Langston, OK. 335
- DIVERSITY OF RHIZOBACTERIA FROM SELECTED WEEDS. D.T. Gooden, H.D. Skipper, J.H. Kim, K. Xiong, V. Demarque, and T.L. Lalande. Department of Crop & Soil Environmental Science, Clemson University, Pee Dee REC, Florence, SC 29506. 336
- CONTROL OF ARKANSAS PALMER AMARANTH ACCESSIONS. J.A. Bond and L.R. Oliver; Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville. 337
- RED MORNINGGLORY (*IPOMOEA COCCINEA*) EMERGENCE AND RESPONSE TO SHADE AND TILLAGE. C.A. Jones, J.L. Griffin, and J.D. Siebert. Louisiana State University AgCenter, Baton Rouge, LA 70803. 338
- COMPETITIVENESS OF VOLUNTEER ROUNDUP READY CROPS. C.H. Tingle and A. Beach; University of Arkansas Agricultural Experiment Station, Keiser, AR 72351 339
- DIFFERENTIATION OF KUDZU (*Pueraria montana*) AND FOREST VEGETATION USING HYPERESPECTRAL REFLECTANCE DATA. K.D. Burnell, J.D. Byrd, Jr., and L.M. Bruce; Mississippi State University, Mississippi State, MS 39762. 340
- EFFECT OF COGONGRASS (*IMPERATA CYLINDRICA*) RESIDUES ON BERMUDAGRASS (*CYNODON DACTYLON*) AND ITALIAN RYEGRASS (*LOLIUM MULTIFLORUM*). C.H. Koger* and C.T. Bryson, USDA-ARS, Southern Weed Science Research Unit, Stoneville, MS 38776; J.D. Byrd Jr., Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS 39762. 341
- EVALUATION OF PLANT GROWTH REGULATORS FOR COGONGRASS [*Imperata cylindrica* (L.) Beauv.] SEED DEVELOPEMENT AND CONTROL. K.D. Burnell, J.D. Byrd, Jr., and P.D. Meints; Mississippi State University, MS 39762. 342
- EFFICACY OF METHYL BROMIDE IN ELIMINATING THE SOIL SEEDBANK OF TROPICAL SPIDERWORT AND SICKLEPOD. M.G. Burton, J.F. Spears and A.C. York; Department of Crop Science, NC State University, Raleigh. 343
- TEMPERATURE OPTIMA FOR GROWTH OF TROPICAL SPIDERWORT. M.G. Burton, S. Sermons, and T.W. Rufty; Department of Crop Science, North Carolina State University, Raleigh, NC 27695-7620. 345
- ISOLATION AND STUDY OF ARYLACYLAMIDASE ACTIVITY FROM PROPANIL-RESISTANT BARNYARDGRASS [*ECHINOCHLOA CRUS-GALLI* (L.) BEAUV.]. R.E. Hoagland and K. Hirase; USDA-ARS, Southern Weed Science Research Unit, Stoneville, MS 38776 and Mitsui Chemicals, Inc., Chiba, Japan. 347
- THE EFFECT OF TITANIUM DIOXIDE ALUMINA BEADS ON THE PHOTOCATALYTIC DEGRADATION OF PICLORAM IN WATER. D.J. Lee and S.C. Jung, Sunchon National University, Suncheon, Jeonnam 540-742, Korea; S.A. Senseman, A.S. Sciumbato, and L.J. Krutz, Texas Agricultural Experiment Station, Texas A&M University, Dept. of Soil and Crop Sciences, College Station, TX 77843-2474. 348
- TRIFLOXYSULFURON: SOIL BEHAVIOR AND FOLIAR VERSUS ROOT ABSORPTION BY TORPEDOGRASS. R.H. Walker, W.A. Williams and G.R. Wehtje. Alabama Agric. Exp. Stn., Auburn University, Auburn University, AL 36849-5412. 349

- ADSORPTION OF FLUMIOXAZIN TO SEVEN SOUTHERN SOILS. J.A. Ferrell, T.L. Grey, W.K. Vencill. Department of Crop and Soil Sciences, University of Georgia, Athens, Georgia, 30602, and Tifton, Georgia, 31794. 350
- PLANT AVAILABLE IMAZETHAPYR IN SOIL SOLUTION AND RED RICE (*ORYZA SATIVA* L.) EFFICACY AS INFLUENCED BY HERBICIDE RATE AND SOIL MOISTURE. A.S. Sciumbato, L.J. Krutz, G.L. Steele and S.A. Senseman, Texas Agricultural Experiment Station, College Station, D.J. Lee, Suncheon National University, Suncheon, Jeonnam, South Korea and B.V. Ottis, Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville. 351
- IDENTIFICATION, HISTORY, AND CONTROL OF COGONGRASS [*IMPERATA CYLINDRICA* (L.) BEAUV.] K.D. Burnell, J.D. Byrd, Jr., C.T. Bryson, T.H. Koger, and D.N. Ivy; Mississippi State University, MS 39762. 352
- MOWING AND CULTURAL TACTICS FOR COGONGRASS [*Imperata cylindrica* (L.) Beauv.]. K.D. Burnell, J.D. Byrd, Jr., G. Ervin, P.D. Meints, J.W. Barnett, Jr., and D.B. Mask. Mississippi State University, MS 39762. 353
- COGONGRASS [*IMPERATA CYLINDRICA* (L.) BEAUV.] CAN BE DETECTED USING HYPERSPECTRAL REFLECTANCE DATA. J.W. Barnett, Jr., J.D. Byrd, Jr., L.M. Bruce, J. Li, D.B. Mask, A. Mathur, and K.D. Burnell; Department of Plant and Soil Sciences. Mississippi State University, Mississippi State, MS 39762. 354
- Symposia**
- CONTROL OF MARESTAIL (*CONYZA CANADENSIS*) WITH GLYPHOSATE. R.F. Montgomery, T.E. Dutt, G.P. Murphy, T.S. Willard, and G.A. Elmore; Monsanto Company, St. Louis MO 63167. 355
- GLYPHOSATE-RESISTANT HORSEWEED (*CONYZA CANADENSIS*) DISTRIBUTION AND CONTROL IN TENNESSEE. R.M. Hayes, TC. Mueller, and C.C. Craig, University of Tennessee, Jackson, TN 38301 357
- RESPONSE OF GLYPHOSATE TOLERANT AND SUSCEPTIBLE BIOTYPES OF HORSEWEED (*CONYZA CANADENSIS*) TO FOLIAR APPLIED HERBICIDES. J.R. Martin and W.W. Witt, Department of Agronomy, University of Kentucky, Princeton, KY 42445-0469. 358
- GLYPHOSATE RESISTANCE IN HORSEWEED (*CONYZA CANADENSIS*) FROM A WESTERN KENTUCKY FARM. C.B. Rogers. Department of Agricultural and Human Sciences, Morehead State University, Morehead, KY 40351. 360
- NEW AND POTENTIAL WEED PROBLEMS IN RICE. R.E. Strahan; Louisiana State University AgCenter, Baton Rouge, LA 361
- CHANGES IN RICE CULTURAL PRACTICES. P.K. Bollich; Louisiana State University AgCenter, Rice Research Station, Crowley, LA. 362
- CHANGES IN WATER-SEEDED RICE WEED MANAGEMENT. E.P. Webster; Department of Agronomy, Louisiana State University AgCenter, Baton Rouge. 364
- RICE WEED CONTROL: AN AGENTS PERSPECTIVE. C.E. Eskew; LSU AgCenter Jefferson Davis Parish, Louisiana State University AgCenter, Jennings. 365
- MANAGING HERBICIDE DRIFT WITH NEW TECHNOLOGIES IN SPRAY EQUIPMENT. J.L. Griffin. Louisiana State University AgCenter, Baton Rouge, LA. 366

- MULTIPURPOSE MONITORING OF NON-NATIVE INVASIVE SPECIES: PERSPECTIVES FROM REGIONAL FOREST RESOURCE INVENTORIES. V.A. Rudis, USDA Forest Service, Southern Research Station, Forest Inventory and Analysis Unit, Starkville, Mississippi 368
- DEEPROOTED SEDGE (*CYPERUS ENTRERIANUS*). C.T. Bryson*, USDA-ARS, Southern Weed Science Research Unit, Stoneville, MS 38776; R. Carter, Valdosta State University, Valdosta, GA 31698; and D.J. Rosen, US Fish and Wildlife Service, Houston, TX 77058. . . 370
- SERICEA LESPEDEZA (*LESPEDEZA CUNEATA*). C.H. Koger*, USDA-ARS, Southern Weed Science Research Unit, Stoneville, MS 38776; J.F. Stritzke, Department of Plant and Soil Sciences, Oklahoma State University, Stillwater, OK 74078. 371
- WHAT TO DO WITH AN UNKNOWN SPECIMEN: PREPARATION AND STORAGE OF VOUCHERS. R. Carter, Biology Department, Valdosta State University, Valdosta, GA 31698-0015. 372