

Section 1. Agronomic Crops

8. **Effect of coldinafop-propagyl, diclofop-methyl and fenoxaprop-p-ethyl on annual blue grass (*Poa annua*) control in two growth stage.** A. Mousavi Nik*, H. Alizade, E. Zamani; Tehran universiyt, Karaj, Iran (Islamic Republic of).
9. **Response of Pinto and Small Red Mexican Bean (*Phaseolus vulgaris* L.) to Preplant Incorporated, Preemergence, and Postemergence Herbicides.** P. H. Sikkema,¹ D. E. Robinson,¹ R. E. Nurse,² N. Soltani*¹; ¹University of Guelph, Ridgetown, ON, Canada, ²Agriculture and Agri-Food Canada, Harrow, ON, Canada.
10. **Weed Management in Dry Beans with Reduced Rates of Imazethapyr in Combination with Trifluralin.** N. Soltani*, R. E. Nurse, R. Vyn, L. L. Van Eerd, C. Shropshire, P. H. Sikkema; University of Guelph, Ridgetown, ON, Canada.
11. **Response of corn treated at two growth stages with foliar-applied herbicides.** J. R. Martin*, C. R. Tutt; University of Kentucky, Princeton, KY.
12. **Quantifying herbicide carryover injury in canola (*Brassica napus*) with hand-held sensors or digital imagery.** E. Johnson*, C. Gampe; Agriculture and Agri-Food Canada, Scott, SK, Canada.
13. **Tolerance of Spring Cereals to BAS 800H Applied Preemergence and Postemergence.** P. H. Sikkema, C. Shropshire, N. Soltani*; University of Guelph, Ridgetown, ON, Canada.
14. **Tolerance of Corn to Preemergence and Postemergence Applications of BAS 800H.** N. Soltani*, C. Shropshire, P. H. Sikkema; University of Guelph, Ridgetown, ON, Canada.
15. ***Camelina sativa* Tolerance to Preemergence and Postemergence Herbicide Applications.** S. R. KIng*; Montana State University, Huntley, MT.
16. **Double crop glyphosate resistant soybean response to mesosulfuron and sulfosulfuron applied to soft red winter wheat.** T. L. Grey*, E. P. Prostko; University of Georgia, Tifton, GA.
17. **Weed Suppression by Canola and Mustard Cultivars.** H. J. Beckie*,¹ E. N. Johnson,² R. E. Blackshaw,³ Y. Gan⁴; ¹Agriculture and Agri-Food Canada, Saskatoon, SK, Canada, ²Agriculture and Agri-Food Canada, Scott, SK, Canada, ³Agriculture and Agri-Food Canada, Lethbridge, AB, Canada, ⁴Agriculture and Agri-Food Canada, Swift Current, SK, Canada.

18. **The Brawl in the Fall: Fall Burndown Programs in Pennsylvania.** D. D. Lingenfelter*, W. S. Curran; Penn State University, University Park, PA.
19. **Controlling Glyphosate-Resistant Volunteer Corn in Roundup Ready Soybeans.** K. R. Westerfeld*, V. M. Davis, M. M. Kruger, W. G. Johnson; Purdue University, West Lafayette, IN.
20. **Beyond on/off: Increasing the benefits of patch spraying with multiple treatments.** L. J. Wiles*; USDA-ARS-WMR, Fort Collins, CO.
21. **2,4-D resistant prickly lettuce (*Lactuca serriola* L.) in Washington.** I. C. Burke*,¹ J. Yenish,¹ D. Pittmann,¹ R. Gallagher²; ¹Washington State University, Pullman, WA, ²Pennsylvania State University, University Park, PA.
22. **Weed management in LibertyLink Cotton: The first four years.** P. A. Dotray*,¹ W. Perkins,² L. V. Gilbert³; ¹Texas Tech University, Texas Agricultural Experiment Station, Texas Cooperative Extension, Lubbock, TX, ²Bayer CropSciences, Idalou, TX, ³Texas Agricultural Experiment Station, Lubbock, TX.
23. **Confirmation and Control of Glyphosate-Resistant Palmer Amaranth in Arkansas.** J. K. Norsworthy*,¹ G. Griffith,¹ R. C. Scott,² K. L. Smith,³ L. R. Oliver¹; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR, ³University of Arkansas, Monticello, AR.
24. **Early-season light quality effects on corn growth and productivity under field conditions.** M. Markham*, D. Stoltenberg; University of Wisconsin, Madison, WI.
25. **Adjuvant Selection for Tembotrione and Isoxadifen.** J. R. Hinz*,¹ B. Philbrook,² D. Lamore,³ M. Parrish,² J. Allen,² M. Wrucke,⁴ J. Wollam⁵; ¹Bayer CropScience, Story City, IA, ²Bayer CropScience, RTP, NC, ³Bayer CropScience, Bryan, OH, ⁴Bayer CropScience, Apple Valley, MN, ⁵Bayer CropScience, Kansas City, MO.
26. **Giant ragweed (*Ambrosia trifida*) with resistance to multiple herbicide sites of action.** J. M. Stachler*, M. M. Loux, A. F. Dobbels; The Ohio State University, Columbus, OH.
27. **Response of Pearl Millet to HPPD-Inhibiting Herbicides.** W. K. Vencill*,¹ J. Wilson²; ¹University of Georgia, Athens, GA, ²USDA-ARS, Tifton, GA.
28. **Evaluation of KIH-485 herbicide: crop response and weed control fit for the southern cotton belt.** C. H. Koger*, R. C. Bond; Mississippi State University, Stoneville, MS.

Section 2. Horticultural Crops

29. **Replacing methyl bromide successfully in Georgia.** A. S. Culpepper*,¹ L. Sosnoskie,¹ A. MacRae,¹ T. M. Webster²; ¹University of Georgia, Tifton, GA, ²USDA-ARS, Tifton, GA.
30. **Weed dose-response to post-emergent flame cultivation in horticultural crops.** E. C. Sivesind*,¹ M. L. Leblanc,² D. C. Cloutier,³ P. Seguin,¹ K. A. Stewart¹; ¹McGill University, Ste. Anne-de-Bellevue, QC, Canada, ²Institut de recherche et de développement en agroenvironnement, Saint-Hyacinthe, QC, Canada, ³Institut de malherbologie, Ste. Anne-de-Bellevue, QC, Canada.
31. **Efficacy of pendimethalin tank mixed with several other preemergence herbicides for optimum weed control in non-bearing citrus.** M. Singh*,¹ S. D. Sharma,¹ J. M. Mitchell²; ¹University of Florida, Lake Alfred, FL, ²BASF Corporation, Tampa, FL.
32. **Effects of spring-sown cover crops on seed production and emergence of hairy galinsoga (*Galinsoga ciliata*) and establishment of four vegetable crops.** V. Kumar,¹ D. C. Brainard*,² R. R. Bellinder¹; ¹Cornell University, Ithaca, NY, ²Michigan State University, East Lansing, MI.
33. **Dry bulb onion tolerance to sequential applications of bentazon applied to control yellow nutsedge (*Cyperus esculentus* L.) in the Pacific Northwest.** E. Peachey*,¹ J. Felix,² R. A. Boydston³; ¹Oregon State University, Corvallis, OR, ²Malheur Experiment Station, Ontario, OR, ³USDA, Prosser, WA.
34. **Corn gluten meal as an alternative organic preemergence herbicide for onions (*Allium cepa* L.).** C. L. Webber*,¹ J. W. Shrefler²; ¹USDA, ARS, SCARL, Lane, OK, ²OSU, Lane, OK.
35. **Herbicidal activity of clove oil and its constituents.** A. Manda, R. Matraszek, M. B. Isman, M. K. Upadhyaya*; Faculty of Land and Food Systems, University of British Columbia, Vancouver, BC, Canada.
36. **Simazine treated mulch improved lambsquarter (*Chenopodium album* L.) control.** L. Jiang*, I. Dami, H. Mathers, D. Doohan; The Ohio State University/Ohio Agriculture Research and Development Center, Wooster, OH.
37. **Phenyl isothiocyanate as a methyl bromide alternative for weed control in tomato and bell pepper production.** S. K. Bangarwa*, J. K. Norsworthy; University of Arkansas, Fayetteville, AR.

38. **Weed Control and Tomato Cultivar Sensitivity to Thifensulfuron-methyl.** T. A. Koch*,¹ J. Felix,² S. C. Weller,³ D. Doohan¹; ¹The Ohio State University, Wooster, OH, ²Oregon State University, Ontario, OR, ³Purdue University, West Lafayette, IN.

Section 3. Turf and Ornamentals

39. **Tolerance of warm season turfgrasses to mesotrione.** J. M. Taylor*, J. D. Byrd, R. S. Wright; Mississippi State University, Mississippi State, MS.

40. **Tolerance of container-grown woody ornamentals to selected herbicides.** M. W. Marshall*, B. H. Zandstra; Michigan State University, East Lansing, MI.

41. **Characterization of ACC-ase-Resistant Large Crabgrass (*Digitaria sanguinalis*) from Georgia.** W. K. Vencill*,¹ D. Heckart,¹ W. Parrott,¹ T. Murphy,² P. Raymer²; ¹University of Georgia, Athens, GA, ²University of Georgia, Griffin, GA.

42. **Comparing digital software to human observation for estimating weed cover in nursery containers.** J. Altland*; USDA/ARS, Wooster, OH.

43. **Methiozolin, a new turf herbicide.** S. Koo*, K. Hwang, M. Jun; Moghu Research Center Ltd., Daejeon, Republic of Korea.

Section 4. Pasture, Range, Forest, & Rights-of-Way

44. **Weed control in Spanish-cedar (*Cedrela odorata*) plantation during establishment.** F. Rivas*, E. Diaz, J. Castillo; INIFAP-CIRSE, Merida, Yucatan, Mexico.

45. **Evaluation of Imazapic, Mesosulfuron, and Propoxycarbazone for Downy Brome (*Bromus tectorum*) Control in Rangeland.** C. V. Ransom*, S. A. Dewey; Utah State University, Logan, UT.

46. **Evaluating plant propagule spread by vehicles, and the effectiveness of vehicle wash units used to contain them.** L. J. Rew*,¹ H. Balbach,² J. Fleming,³ R. Taylor,³ R. Gonzales³; ¹Montana State University, Bozeman, MT, ²US Army ERDC, Champaign, IL, ³US Forest Service, San Dimas, CA.

47. **Survival and growth of three conifer species following three types of site preparation and three levels of subsequent shrub control: 24 years after planting.** W. T. Lanini*; University of California, Davis, Davis, CA.

48. **Herbicidal control of kudzu.** M. A. Weaver*, W. T. Molin, M. E. Lyn, C. D. Boyette, R. E. Hoagland; USDA ARS, Stoneville, MS.

49. **Safety and Weed control of select Herbicides on Longleaf Pine Seedlings.** M. A. Czarnota*; University of Georgia, Griffin, GA.

Section 5. Wildlands & Aquatic Invasives

50. **Comparison of Imazapyr and Imazamox Herbicides for Control of Parrotfeather (*Myriophyllum aquaticum* (Vell.) Verdc.).** R. M. Wersal*, J. D. Madsen; Mississippi State University, Mississippi State, MS.

51. **Evaluation of 2,4-D Ester and Triclopyr Against Waterlily and Spatterdock.** L. M. Glomski*,¹ L. S. Nelson²; ¹US Army Engineer Research and Development Center, Lewisville, TX, ²US Army Engineer Research and Development Center, Vicksburg, MS.

52. **Relative Response of Goatsrue (*Galega officinalis*) to Herbicide Treatments.** M. Oldham*, C. V. Ransom; Utah State University, Logan, UT.

53. **Effects of Nitrogen and Competition on Growth and Spread of Giant Reed (*Arundo donax*).** L. D. Quinn,¹ M. A. Rauterkus,² J. S. Holt*²; ¹CSIRO Entomology, Indooroopilly, Queensland, Australia, ²University of California, Riverside, CA.

54. **Seasonal response of shoebutt on ardisia (*Ardisia elliptica*) after cut stump treatment with triclopyr (amine form) in forested seasonal wetlands of South Florida.** A. J. Hyatt,¹ H. C. Giannini*,² G. M. Burzycki²; ¹University of Florida, St. Augustine, FL, ²Miami-Dade County, Miami, FL.

Section 6. Regulatory Aspects

No Presentations in this Section.

Section 7. Teaching and Extension

55. **Strategic planning and decision-making: How the WSSA board of directors decides what to do.** T. C. Mueller*,¹ J. J. Jachetta²; ¹University of Tennessee, Knoxville, TN, ²Dow AgroSciences, Indianapolis, IN.

56. **Weed Science Society of America and the National Plant Diagnostic Network: partnership possibilities for invasive plant detection efforts.** C. L. Harmon*,¹ R. Hammer-

schmidt²; ¹SPDN-University of Florida, Gainesville, FL, ²Michigan State University, East Lansing, MI.

57. **A new extension publication regarding soybean cyst nematode and winter annual weeds.** V. A. Mock*,¹ W. G. Johnson,¹ K. L. Smith,¹ K. Bradley²; ¹Purdue University, West Lafayette, IN, ²University of Missouri, Columbia, MO.

58. **A Mental Model of Ohio Grain and Produce Farmers Perceptions and Beliefs about Weed Management.** R. Wilson*,¹ M. Tucker,² N. Hooker,¹ J. LeJeune,³ D. Doohan³; ¹The Ohio State University, Columbus, OH, ²Purdue University, West Lafayette, IN, ³The Ohio State University, Wooster, OH.

59. **WeedSOFT® Modules Delivered Through an Internet-based Platform.** L. Sandell*,¹ R. Eubanks,¹ M. Bernards,¹ L. Bills,¹ A. Martin,¹ C. Boerboom,² W. Johnson,³ C. Sprague,⁴ K. Bradley,⁵ D. Peterson,⁶ A. Dille,⁶ B. Young⁷; ¹University of Nebraska-Lincoln, Lincoln, NE, ²University of Wisconsin, Madison, WI, ³Purdue University, West Lafayette, IN, ⁴Michigan State University, East Lansing, MI, ⁵University of Missouri, Columbia, MO, ⁶Kansas State University, Manhattan, KS, ⁷Southern Illinois University, Carbondale, IL.

Section 8. Formulation, Adjuvant, & Application Technology

No Presentations in this Section.

Section 9. Weed Biology and Ecology

60. **Competitive Effect of Redroot Pigweed (*Amaranthus retroflexus* L.) on Growth indices and Yield of Corn (*Zea mays* L.).** K. Sheibany*,¹ M. Baghestani,¹ S. Soufizadeh,² A. Atri¹; ¹Weed Research Department, Plant Protection Research Institute, P. O. Box 19395-1454, Tehran, Iran (Islamic Republic of), ²PhD Student of Agronomy, Faculty of Agriculture, Tarbiat Modarres University, Tehran, Iran (Islamic Republic of).

61. **Evaluation of Competitive Reciprocal Yield Model of Corn (*Zea mays* L.) Against Redroot Pigweed (*Amaranthus retroflexus* L.) at Qazvin.** K. Sheibany*, M. Baghestani, A. Atri; Weed Research Department, Plant Protection Research Institute, P. O. Box 19395-1454, Tehran, Iran (Islamic Republic of).

62. **Mutualism between common earthworm (*Lumbricus terrestris*) and giant ragweed (*Ambrosia trifida*) varies**

between Ohio and Illinois. A. S. Davis*,¹ E. Regnier,² K. Harrison,² J. Liu,² B. Schutte,¹ E. Luschei³; ¹USDA-ARS, Urbana, IL, ²The Ohio State University, Columbus, OH, ³University of Wisconsin, Madison, WI.

63. **Changes in Well-Defined Phases of Bud Dormancy Associated with Shifts in Carbohydrate Metabolism May Involve beta-Amylases.** W. S. Chao*, J. V. Anderson, D. P. Horvath; USDA-ARS, Fargo, ND.

64. **Differential flower morphology among three morning-glories from the southern U.S.A.** C. T. Bryson*,¹ K. N. Reddy,¹ I. C. Burke²; ¹USDA-ARS, Stoneville, MS, ²Washington State University, Pullman, WA.

65. **Biodiversity after 18 years of crop rotation and tillage treatments: weeds vs. other taxa.** A. Légère*,¹ C. Stevenson,² A. Vanasse,³ M. Roy,⁴ R. Lalande,⁵ D. Prévost,⁵ J. Whalen⁶; ¹Agriculture and Agri-Food Canada, Saskatoon, SK, Canada, ²Private consultant, Saskatoon, SK, Canada, ³Université Laval, Québec, QC, Canada, ⁴MAPAQ, Québec, QC, Canada, ⁵Agriculture and Agri-Food Canada, Québec, QC, Canada, ⁶McGill University, Ste-Anne-de-Bellevue, QC, Canada.

66. **Can “evenness” be a useful indicator of “good” weed diversity?** A. Légère*,¹ C. Stevenson²; ¹Agriculture and Agri-Food Canada, Saskatoon, SK, Canada, ²Private consultant, Saskatoon, SK, Canada.

67. **Distribution and origin of herbicide-resistant *Echinochloa oryzoides* in rice fields of California.** M. D. Osuna*, M. Okada, R. Ahmad, A. J. Fischer, M. Jasieniuk; UC Davis, Davis, CA

68. **Seed germination differences between glyphosate-tolerant and -susceptible Italian ryegrass populations.** V. Nandula*,¹ D. Poston,¹ K. Reddy,² C. Koger¹; ¹Mississippi State University, Stoneville, MS, ²USDA-ARS, Stoneville, MS.

69. **California weedy rice.** A. Ortiz*,¹ A. J. Fischer,² C. Greer,² B. Schaal,³ J. W. Eckert,² M. D. Osuna-Ruiz,² E. A. Laca²; ¹University of Maracay, Maracay, Venezuela, ²University of California, Davis, CA, ³Washington University, St. Louis, MO.

70. **Changes in Weed Species in a Rotation of Glyphosate Resistant Corn and Soybean.** R. N. Klein*, G. E. Hanson; University of Nebraska, North Platte, NE.

71. **Investigating fitness characteristics of glyphosate-tolerant common lambsquarters (*Chenopodium album*) biotypes.** A. M. Westhoven*,¹ J. M. Stachler,² M. M. Loux,² W. G. Johnson¹; ¹Purdue University, West Lafayette, IN, ²The Ohio State University, Columbus, OH.

72. **Predation of Italian Ryegrass (*Lolium multiflorum*) Seed.** R. D. Williams*,¹ P. W. Bartholomew²; ¹USDA-ARS, Oklahoma City, OK, ²USDA-ARS, Langston, OK.
73. **Both Vines and Tendrils Utilize Gelatinous Fibers to cause Twining and Coiling.** K. C. Vaughn*, A. J. Bowling; USDA-ARS, Stoneville, MS.
74. **Is *Harpalus pennsylvanicus* activity-density synchronized with giant foxtail seed rain.** W. S. Curran*, M. M. Ward; Penn State University, University Park, PA.
75. **A predictive yield-loss model for infestations of herbicide-resistant and -susceptible *Echinochloa phyllopogon* in cultivated rice fields.** L. G. Boddy*,¹ A. J. Fischer,¹ M. Moechnig²; ¹UC Davis, Davis, CA, ²South Dakota State University, Brookings, SD.
76. **Critical Period of Broadleaf Verses Grass Weed Interference in Roundup-Ready Cotton.** S. B. Clewis*, W. J. Everman, D. L. Jordan, J. W. Wilcut; NC State University, Raleigh, NC.
77. **Kudzu and Asian soybean rust: a compound problem of invasive introduced species.** C. L. Harmon*,¹ R. Hammerschmidt²; ¹University of Florida, Gainesville, FL, ²Michigan State University, East Lansing, MI.
78. **The Parasitic Plant Genome Project: opportunities for new insight into parasitic weed biology and management.** J. Westwood*,¹ C. dePamphilis,² M. Timko,³ J. Yoder⁴; ¹Virginia Tech, Blacksburg, VA, ²Penn State University, University Park, PA, ³University of Virginia, Charlottesville, VA, ⁴University of California, Davis, CA.
79. **Phytotoxic effects of Western Juniper (*Juniperus occidentalis* Hook).** P. Dysart*, W. Krueger, C. Mallory-Smith, J. Stevens; Oregon State University, Corvallis, OR.
80. **Taxonomy and Phylogeny of Weedy *Cardamine* Species in United States Nurseries.** A. Post*, A. Krings, J. Xiang, B. Sosinski, J. Neal; North Carolina State University, Raleigh, NC.
81. **Variable ALS herbicide tolerance in crop-wild sunflower hybrids.** K. L. Mercer*,¹ K. J. Betts,² R. G. Shaw,² D. L. Wyse²; ¹Ohio State University, Columbus, OH, ²University of Minnesota, St. Paul, MN.
82. **Legacy of episodic tropospheric ozone exposure on a weed community.** M. A. Martinez-Ghersa*,¹ J. Landesmann,² A. Menendez,¹ A. M. Folcia,³ P. E. Gundel,¹ N. Quarleri,¹ L. Ventura,¹ A. M. Romero,³ C. M. Ghersa¹; ¹IFEVA-Depto de Recursos Naturales y Ambiente, Facultad de Agronomía, Universidad de Buenos Aires, Buenos

Aires, Argentina, ²IFEVA-Depto de Recursos Naturales y Ambiente, Facultad de Agronomía, Universidad de Buenos Aires, Buenos Aires, Argentina, ³Depto de Producción Vegetal, Facultad de Agronomía, Universidad de Buenos Aires, Buenos Aires, Argentina.

83. **Evaluation of Texasweed (*Caperonia palustris*) emergence and growth in response to shade.** R. K. Godara*, B. J. Williams, A. B. Burns; Louisiana State University Ag-center, Baton Rouge, LA.

84. **Weed seedbanks and field emergence during transition to organic vegetable production.** M. D. Kleinhenz, C. P. Herms, S. Walker, J. Cardina*; Ohio State University, Wooster, OH.

85. **Summer annual weed fecundity in the North Central region.** E. C. Taylor*, K. A. Renner; Michigan State University, East Lansing, MI.

86. **The influence of tillage and crop on giant ragweed emergence and seed persistence in the soil.** D. Nordby*,¹ M. Williams,² J. Chee-Sanford²; ¹University of Illinois, Urbana, IL, ²USDA-ARS, Urbana, IL.

87. **Glyphosate-resistant ryegrass (*Lolium* spp.) in California: Population subdivision in the presence of selection on a new adaptive trait.** A. M. Sherwood*, R. Ahmad, M. Jaieniuk; University of California Davis, Davis, CA.

88. **Crickets (*Teleogryllus emma*) are the main predators of weed seeds (*Avena fatua* and *Lolium multiflorum*) on arable land.** M. Asai*,¹ M. Hirafuji,¹ H. Yoichi,¹ T. Shibuya,¹ M. Ichihara²; ¹National Agric. Res. Cntr., Tsukuba, Japan, ²Shizuoka Univ., Shizuoka, Japan.

89. **Heritability in differential control of *Amaranthus palmeri* S. and *Ipomoea lacunosa* L. by glyphosate.** J. A. Huff*, D. R. Shaw, W. A. Givens, J. W. Weirich, L. A. Farno; Mississippi State, Mississippi State, MS.

90. **Water-Soluble Weed Seed Exudates with Antifungal and Antibacterial Properties.** A. Houlihan*,¹ P. Tsai,² J. Chee-Sanford¹; ¹USDA/ARS, Urbana, IL, ²University of Illinois at Urbana-Champaign, Urbana, IL.

91. **A user-friendly ¹³C isotope discrimination method for root studies with rice and C₄ weeds in field soils.** D. R. Gealy*; USDA-ARS, Stuttgart, AR.

Section 10. Biocontrol of Weeds

92. **Post dispersal weed seed predation in three seasons and three ecosystems.** A. Mousavi Nik*,¹ H. Rahimian Ma-

shhadi,¹ S. Gharai,² A. Jodakhanloo¹; ¹Tehran univ. Iran, Karaj, Iran (Islamic Republic of), ²Yasuj univ, yasuj, Iran (Islamic Republic of).

93. **Evaluation of *Microsphaeropsis amaranthi* as a bioherbicide in tomato production.** D. Singh*,¹ Y. M. Shabana,² S. G. Hallett¹; ¹Purdue Univ., West Lafayette, IN, ²Univ. of Florida, Gainesville, FL.

Section 11. Physiology

94. **The role of Antioxidants in the Protection of Plants Against Inhibition of Protoporphyrinogen Oxidase.** L. C. Dayan*,¹ F. Dayan²; ¹Oxford High School, Oxford, MS, ²USDA-ARS, NPURU, MS.

95. **Aminomethylphosphonic acid formation in plant species treated with glyphosate.** K. N. Reddy*,¹ A. M. Rimando,² S. O. Duke,² V. K. Nandula³; ¹USDA-ARS, Southern Weed Science Research Unit, Stoneville, MS, ²USDA-ARS, Natural Products Utilization Research Unit, University, MS, ³Delta Research and Extension Center, Mississippi State University, Stoneville, MS.

96. **Identification of Conserved Mechanisms Regulating Bud Dormancy in Leafy Spurge and other Perennials.** D. Horvath*, J. Anderson, W. Chao; USDA-ARS, Fargo, ND.

97. **Response of Indiana horseweed (*Conyza Canadensis*) populations to 2,4-D.** G. R. Kruger*, V. M. Davis, S. C. Weller, W. G. Johnson; Purdue University, West Lafayette, IN.

98. **Characterizing the response of glyphosate-tolerant common lambsquarters (*Chenopodium album*) biotypes.** M. M. Kruger*, A. M. Westhoven, W. G. Johnson; Purdue University, West Lafayette, IN.

99. **Evaluation of resistance to APP inhibiting herbicides in Little seed canary grass (*Phalaris minor*) biotypes.** J. Gharekhloo*,¹ M. H. Rashed Mohassel,¹ M. Nassiri Mahallati,¹ E. Zand,² A. Ghanbari,¹ M. D. Osuna,³ R. De Prado,³ R. Vidal⁴; ¹Ferdowsi Univ. Of Mashhad, Mashhad, Iran (Islamic Republic of), ²Plant Protection Research Institute, Tehran, Iran (Islamic Republic of), ³Cordoba Univ., Cordoba, Spain, ⁴Federal Univ., Rio Grande do Sul, Brazil.

100. **Does founder effect in the evolution of herbicide resistance reduce genetic variability in weed population?** F. P. Lamego*,¹ R. A. Vidal,¹ N. Burgos²; ¹UFRRGS-CNPq, Porto Alegre, Brazil, ²Univ. of Arkansas, Fayetteville, AR.

101. **Characterization of ALS-inhibitor resistant beggarticks (*Bidens subalternans*).** F. P. Lamego*,¹ N. R. Burgos,² M. Sales,² V. Shivrain,² R. A. Vidal¹; ¹Federal University at Rio Grande do Sul - CNPq, Porto Alegre, Brazil, ²University of Arkansas, Fayetteville, AR.

102. **Absorption, Translocation, and Metabolism of Glufosinate in Corn, Cotton, and Problem Weed Species.** W. J. Everman*, S. B. Clewis, J. D. Burton, A. C. York, J. W. Wilcut; North Carolina State University, Raleigh, NC.

103. **Effects of Glyphosate Formulations on Cotyledon Structure and Chlorophyll Fluorescence in Cotton.** W. T. Molin*, A. J. Bowling, K. C. Vaughn; USDA-ARS, Stoneville, MS.

104. **Morphology and Biochemistry of African rue in response to water deficit.** G. T. Bettmann*,¹ L. B. Abbott,¹ H. H. Ratnayaka,² T. M. Sterling¹; ¹New Mexico State University, Las Cruces, NM, ²Xavier University, New Orleans, LA.

Section 12. Soil and Environmental Aspects

105. **The effect of cropping and herbicide use history on atrazine efficacy and dissipation.** D. Shaner*,¹ L. Wiles,¹ N. Hansen²; ¹USDA-ARS, Fort Collins, CO, ²Colorado State University, Fort Collins, CO.

106. **Soil microbial response to Cotoran[®] is influenced by Roundup WeatherMAX[®].** S. Lancaster*,¹ S. Senseman,¹ R. Haney²; ¹TAMU, College Station, TX, ²USDA-ARS, Temple, TX.

107. **Modeling Landscape Vulnerability to Herbicide Contamination of Ground and Surface Waters.** M. L. Bernards*, M. Milner, P. J. Shea; University of Nebraska-Lincoln, Lincoln, NE.

108. **Microbial interactions in the glyphosate-resistant soybean rhizosphere.** R. J. Kremer*; USDA-ARS, Columbia, MO.

Section 13. Integrated Weed Management

109. **Radiometric response of soybean fallow to increasing natural weed populations soil cover.** H. A. Acciaresi*, C. Weber, M. S. Zuluaga; Facultad Cs. Agr. y Ftiles (UNLP), La Plata, Argentina.

110. **Effect of sweetclover cultivars and crop termination method on weed management.** R. E. Blackshaw*, J. R.

Moyer; Agriculture & Agri-Food Canada, Lethbridge, AB, Canada.

111. **Seasonal interaction of purple deadnettle (*Lamium purpureum*) and soybean cyst nematode (*Heterodera glycines*).** R. Venkatesh*, S. K. Harrison, R. Riedel; The Ohio State Univ., Columbus, OH.

112. **Response of plant growth and soybean cyst nematode to annual ryegrass, purple deadnettle, and soybean combinations.** V. A. Mock*,¹ J. E. Creech,² W. G. Johnson¹; ¹Purdue University, West Lafayette, IN, ²University of Nevada, Fallon, NV.

113. **Winter Annual Weed Population Dynamics are Influenced by Herbicide Selection and Timing in No-till Cropping Systems.** V. M. Davis*, K. D. Gibson, W. G. Johnson; Purdue University, West Lafayette, IN.

114. **Probability of weed resistance to glyphosate as affected by integrated weed management tactics.** D. Stoltenberg*, M. Jeschke; University of Wisconsin, Madison, WI.

TUESDAY AM, February 5
Tips and Tricks for Journal Writing: What
Everyone Needs to Know for Preparing
Submissions to WSSA Journals

Location: Waldorf Room

Chair: W. Givens*; Plant and Soil Sciences, Mississippi State University, Mississippi State, MS.

9:30 AM – 12:00 Noon

TUESDAY AM, February 5
Section 1. Agronomic Crops

Location: Williford C

Chair: P. J. Porpiglia*; Kumiai America, White Plains, NY.

10:00AM - 10:15AM

115. **Introduction of Dow AgroSciences Herbicide Tolerance Traits.** D. M. Simpson*, T. R. Wright, R. S. Chambers, M. A. Peterson, C. Cui, A. E. Robinson, J. S. Richburg, D. C. Ruen, S. Ferguson, B. E. Maddy; Dow AgroSciences, Indianapolis, IN.

10:15AM - 10:30AM

116. **A new formulation of Isoxaflutole for preemergence weed control in corn (*Zea mays*).** B. D. Philbrook*,¹ H. J. Santel²; ¹Bayer CropScience, RTP, NC, ²Bayer CropScience, Monheim, Germany.

10:30AM - 10:45AM

117. **Thiencarbazone-methyl & Isoxaflutole: A new herbicide premixture for preemergence weed control in corn (*Zea mays*).** H. J. Santel*,¹ B. D. Philbrook²; ¹Bayer Crop-Science, Monheim, Germany, ²Bayer CropScience, RTP, NC.

10:45AM - 11:00AM

118. **Evaluation of synergistic herbicide combinations for triazine-sensitive and triazine-resistant broadleaf weed management.** A. J. Woodyard*, J. A. Hugie, D. J. Maxwell, D. E. Riechers; Crop Sciences, University of Illinois, Urbana, IL.

11:00AM - 11:15AM

119. **Postemergence Weed Control Options for Use in Corn.** H. Menbere*, R. L. Ritter; Plant Science and Landscape Architecture, University of Maryland, College Park, MD.

11:15AM - 11:30AM

120. **BAS 800H: A new herbicide for preplant burndown and preemergence dicot weed control.** R. Liebl*,¹ H. Walter,² S. J. Bowe,¹ T. J. Holt,¹ D. E. Westberg¹; ¹BASF Corporation, Research Triangle Park, NC, ²BASF AG, Limburgerhof, Germany.

11:30AM - 11:45AM

121. **BAS 800H: A new active ingredient for preemergence broadleaf weed control in field corn and grain sorghum.** C. A. Judge*, D. E. Westberg, T. D. Klingaman, L. D. Charvat, W. E. Thomas; BASF, Research Triangle Park, NC.

11:45AM - 12:00PM

122. **Use of BAS 800H as a preplant burndown for use in soybean.** T. D. Klingaman*, J. E. Zawierucha, L. D. Charvat, W. E. Thomas, C. D. Youmans, L. J. Newsom, J. B. Guice, G. W. Oliver, D. E. Westberg; BASF Corporation, Research Triangle Park, NC.

TUESDAY AM, February 5

Section 5. Wildlands and Aquatic Invasives

Location: Marquette Room

Chair: L. Nelson*; Army Corps of Engineers, Vicksburg, MS.

10:00AM - 10:15AM

123. **Management effects on monoecious hydrilla tuber banks.** R. J. Richardson*,¹ A. P. Gardner,¹ M. Heilman,² T. Koschnick²; ¹Crop Science, North Carolina State Univ., Raleigh, NC, ²SePRO Corporation, Whitakers, NC.

10:15AM - 10:30AM

124. **The Demonstration Project on Hydrilla and Hygrophila in the Upper Kissimmee Chain of Lakes.** T. Bond*,¹ K. Lawrence²; ¹UF/IFAS Osceola County Extension, Kissimmee, FL, ²Engineering, Osceola County, Kissimmee, FL.

10:30AM - 10:45AM

125. **Production methods and related efficacy of the biocontrol pathogen *Mycoleptodiscus terrestris* for management of the aquatic macrophyte hydrilla (*Hydrilla verticillata*).** J. F. Shearer*,¹ L. Nelson,¹ M. Jackson,² M. Heilman³; ¹Engineer Research and Development Center, US Army Corps of Engineers, Vicksburg, MS, ²National Center for Agricultural Utilization Research, United States Department of Agriculture, Peoria, IL, ³Research and Technology Campus, SePRO Corporation, Whitakers, NC.

10:45AM - 11:00AM

126. **Linking invasive aquatic plants, and a novel species of cyanobacteria to an emerging wildlife disease.** S. B. Wilde*; Baruch Marine Lab, University of South Carolina, Charleston, SC.

11:00AM - 11:15AM

127. **Aquatic Herbicide Registration: The Future is Here.** K. D. Getsinger*,¹ D. R. Stubbs²; ¹Environmental Laboratory, US Army Engineer Research and Development Center, Vicksburg, MS, ²Office of Pesticide Programs, US Environmental Protection Agency, Washington, DC.

11:15AM - 11:30AM

128. **Reviewing Clearcast™ (imazamox) EUP in Aquatic Plant Management.** B. Burns*; Specialty Products Division, BASF, Raleigh, NC.

11:30AM - 11:45AM

129. **Eurasian Watermilfoil Monitoring and Eradication Assessment in the Pend Oreille Lake and River System, Idaho.** J. D. Madsen*,¹ R. M. Wersal,¹ T. E. Woolf²; ¹GeoResources Institute, Mississippi State University, Mississippi State, MS, ²Idaho State Department of Agriculture, Boise, ID.

11:45AM - 12:00PM

130. **Early spring application of endothall combined with 2,4-D for selective control of Eurasian watermilfoil (*Myriophyllum spicatum*) and curly-leaf pondweed (*Potamogeton crispus*).** J. G. Skogerboe*,¹ K. D. Getsinger²; ¹Dept of Civil Engineering, Louisiana Tech U, Ruston, LA, ²Clemson, Clemson, SC.

TUESDAY AM, February 5
Section 10. Biocontrol of Weeds

Location: Williford B

Chair: M. A. Weaver*; Southern Weed Science Research Unit, USDA ARS, Stoneville, MS.

10:00AM - 10:15AM

131. **Effects of *Myrothecium verrucaria* on ultra-structural integrity of kudzu (*Pueraria montana* var. *lobata*) and phytotoxin implications.** C. D. Boyette, R. E. Hoagland*, K. C. Vaughn, M. A. Weaver, K. C. Stetina; Southern Weed Science Research Unit, USDA-ARS, Stoneville, MS.

10:15AM - 10:30AM

132. **The development and assessment of soil bacteria as a pre-emergent bioherbicide.** S. M. Boyetchko*, R. K. Hynes, C. Hanson, P. Chumala; Agriculture and Agri-Food Canada, Saskatoon, SK, Canada.

10:30AM - 10:45AM

133. ***Septoria* sp. (Sphaeropsidales): a new fungal pathogen for classical biological control of *Schinus terebinthifolius* (Anacardiaceae).** J. P. Cuda*,¹ T. Stevens,¹ R. Barreto,² T. Schubert,³ R. Charudattan⁴; ¹Entomology & Nematology, University of Florida, Gainesville, FL, ²Universidade Federal de Vicosa, Vicosa, Minas Gerais, Brazil, ³Plant Pathology Section, Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Gainesville, FL, ⁴Plant Pathology, University of Florida, Gainesville, FL.

10:45AM - 11:00AM

134. **Common cocklebur (*Xanthium strumarium*) biocontrol by *Alternaria helianthi* as affected by surfactants.** D. Sanyal*,¹ P. C. Bhowmik,¹ H. K. Abbas²; ¹University of Massachusetts Amherst, Amherst, MA, ²USDA-ARS, Stoneville, MS.

11:00AM - 11:15AM

135. **Field efficacy of the bioherbicide *Microsphaeropsis amaranthi* for the control of Common waterhemp and pigweeds (*Amaranthus* spp.) in Roundup Ready soybean.** D. Singh*,¹ L. Ortiz-Ribbing,² G. K. Roskamp,³ S. G. Hallett¹; ¹Botany and Plant Pathology, Purdue Univ., West Lafayette, IN, ²Macomb Extension Center, Univ. of Illinois, Macomb, IL, ³Department of Agriculture, Western Illinois Univ., Macomb, IL.

11:15AM - 11:30AM

136. **Return of the mycoherbicide *Collego* to mid-south rice fields: Lockdown 2008.** K. D. Cartwright*,¹ C. D. Boyette,² R. Scott,³ R. D. Cartwright,⁴ R. E. Hoagland,² K. C.

Stetina,² R. E. Hoagland,² M. A. Weaver²; ¹Agricultural Research Initiatives, Fayetteville, AR, ²USDA-ARS, Southern Weed Science Research Unit, Stoneville, MS, ³Crop, Soil, and Environmental Extension Center, Lonoke, AR, ⁴Dept. of Plant Pathology, Fayetteville, AR.

11:30AM - 11:45AM

Business Meeting

TUESDAY PM, February 5
Graduate Student luncheon/meeting

Location: Williford A

Chair: W. Givens*; Plant and Soil Sciences, Mississippi State University, Mississippi State, MS.

12:00PM - 1:30PM

TUESDAY PM, February 5
GIS for Invasive Weed Management and Research

Location: Waldorf Room

Chair: L. J. Wiles*; Water Management Research Unit, USDA-ARS, Fort Collins, CO.

1:00PM - 1:30PM

137. From maps to knowledge to management: Understanding, predicting and managing the invasion process can be improved by using geographic information systems. L. J. Rew*,¹ L. Wiles,² D. Shaw³; ¹Montana State University, Bozeman, MT, ²USDA-ARS-WMR, Fort Collins, CO, ³Mississippi State University, Mississippi State, MS.

1:30PM - 2:00PM

138. Utilizing geographic information systems and remotely-sensed data to set integrated pest management strategies for plant survey and landscape-scale weed management. T. S. Prather*, B. Shafii, L. Lass, W. Price; University of Idaho, Moscow, ID.

2:00PM - 2:30PM

139. Prioritizing cogongrass control on Camp Shelby Training Site, MS based on conservation values and rates of spread. L. Yager*,¹ M. Lyman²; ¹The Nature Conservancy, Jackson, MS, ²The Nature Conservancy, Camp Shelby, MS.

2:30PM - 3:00PM

140. GIS for Invasive Aquatics Management. J. D. Madsen*; Mississippi State University, Mississippi State, MS.

3:00PM - 3:30PM

Break

3:30PM - 4:00PM

141. **The role of forest roads in plant invasions.** D. A. Mortensen*, E. Rauschert, A. N. Nord; The Pennsylvania State University, University Park, PA.

4:00PM - 4:30PM

142. **Forecasting weeds and climate change with GIS.** T. R. Davern*, C. S. Jarnevich, T. J. Stohlgren; United States Geological Survey, Fort Collins, CO.

4:30PM - 5:00PM

143. **Predicting species distributions from presence-only data.** C. Graham*; SUNY at Stony Brook, Stony Brook, NY.

TUESDAY PM, February 5

Section 1. Agronomic Crops

Location: Williford C

Chair: P. J. Porpiglia*; Kumiai America, White Plains, NY.

1:15PM - 1:30PM

144. **Weed control in organic vegetable production using organic herbicides and flame.** T. J. Breum*, T. W. Miller, C. Steen; Washington State University, Mt. Vernon, WA.

1:30PM - 1:45PM

145. **Management of Italian Ryegrass (*Lolium multiflorum*) in Wheat.** R. L. Ritter*,¹ H. Menbere²; ¹Plant Science and Landscape Architecture, University of Maryland, Laurel, MD, ²Plant Science and Landscape Architecture, University of Maryland, College Park, MD.

1:45PM - 2:00PM

146. **Benefits of residual herbicides for weed control in no-till glyphosate-resistant soybean.** J. Q. Armstrong*, C. L. Sprague; Dept. of Crop and Soil Sciences, Michigan State University, East Lansing, MI.

2:00PM - 2:15PM

147. **Pre-seed applications with BAS 800H for broadleaf weed control prior to cereal and pulse crops.** M. Oostlander*,¹ S. Tan,² G. Forster,³ L. Drew⁴; ¹BASF Canada, Lethbridge, AB, Canada, ²BASF Corp., RTP, NC, ³BASF Canada, Saskatoon, SK, Canada, ⁴BASF Canada, Regina, SK, Canada.

2:15PM - 2:30PM

148. **Efficacy of BAS 800H in no-till soybean burndown and residual herbicide programs.** B. G. Young*,¹ T. D. Klinga-

man,² A. G. Hager,³ W. G. Johnson,⁴ S. Z. Knezevic,⁵ P. H. Sikkema⁶; ¹Southern Illinois University, Carbondale, IL, ²BASF Corporation, Mahomet, IL, ³University of Illinois, Urbana, IL, ⁴Purdue University, West Lafayette, IN, ⁵University of Nebraska, Concord, NE, ⁶University of Guelph, Ridgetown, ON, Canada.

2:30PM - 2:45PM

149. **Efficacy of fall and spring applications of BAS 800H on horseweed (*Conyza canadensis*) in Indiana, Illinois, and Nebraska.** W. Johnson*,¹ V. Davis,¹ B. Young,² S. Knezevic,³ T. Klingaman⁴; ¹Botany and Plant Pathology, Purdue University, West Lafayette, IN, ²Southern Illinois University, Carbondale, IL, ³University of Nebraska, Concord, NE, ⁴BASF Corporation, Mahomet, IL.

2:45PM - 3:00PM

150. **Dicot weed control with pyrasulfotole in wheat and spring barley.** M. D. Paulsgrove*,¹ K. B. Thorsness,² D. M. Maruska,³ M. A. Anderson,⁴ D. R. Christie⁵; ¹Product Development, Bayer CropScience, RTP, NC, ²Technical Service, Bayer CropScience, Fargo, ND, ³Field Development, Bayer CropScience, Argyle, MN, ⁴Field Development, Bayer CropScience, Spokane, WA, ⁵Technical Service, Bayer CropScience, Spokane, WA.

3:00PM - 3:30PM

Break

3:30PM - 3:45PM

151. **Fall Burndown Control of Winter Annuals with BAS 800H as Influenced by the Type of Adjuvant.** S. Knezevic*,¹ J. Scott,¹ L. Charvat²; ¹UNL, Concord, NE, ²BASF Corporation, Lincoln, NE.

3:45PM - 4:00PM

152. **Evaluation of herbicide programs for the management of glyphosate-resistant waterhemp (*Amaranthus rudis*) in soybean.** T. R. Legleiter*, K. W. Bradley; University of Missouri, Columbia, MO.

4:00PM - 4:15PM

153. **Evaluation of Weed Control Programs in Glyphosate-Resistant Sugar Beet.** S. R. King*; Research Centers, Montana State University, Huntley, MT.

4:15PM - 4:30PM

154. **Common ragweed (*Ambrosia artemisiifolia*) with resistance to multiple herbicide sites of action.** J. M. Stachler*, M. M. Loux, A. F. Dobbels; Horticulture and Crop Science, The Ohio State University, Columbus, OH.

4:30PM - 4:45PM

155. **Molecular methods to study glyphosate-resistant Palmer amaranth (*Amaranthus palmeri*).** T. Gaines*,¹ P. Westra,¹

J. Leach,¹ S. Chisholm,¹ D. Shaner,² C. Preston,³ A. S. Culpepper,⁴ T. Gray,⁴ T. Webster,⁵ W. Vencill,⁶ P. Tranel⁷; ¹Colorado State University, Fort Collins, CO, ²USDA-ARS, Fort Collins, CO, ³University of Adelaide, Adelaide, Australia, ⁴University of Georgia, Tifton, GA, ⁵USDA-ARS, Tifton, GA, ⁶University of Georgia, Athens, GA, ⁷University of Illinois, Urbana, IL.

TUESDAY PM, February 5

Section 3. Turf and Ornamentals

Location: Marquette Room

Chair: H. Mathers*; Ohio State Univ., Columbus, OH.

1:00PM - 1:15PM

156. **Safety and efficacy of flumioxazin as a preemergence herbicide in nursery containers.** T. L. Mervosh*, J. F. Ahrens; Valley Laboratory, Connecticut Agricultural Experiment Station, Windsor, CT.

1:15PM - 1:30PM

157. **Sulfentrazone for postemergence sedge control in turfgrass.** J. Derr*; Hampton Roads AREC, Virginia Tech, Virginia Beach, VA.

1:30PM - 1:45PM

158. **Control of white clover and smooth crabgrass in turfgrass with wet blade technology.** J. L. Jester*,¹ S. D. Askew,¹ B. J. Brecke²; ¹Virginia Tech, Blacksburg, VA, ²Univ. of Florida, Jay, FL.

1:45PM - 2:00PM

159. **Induction of antioxidant response system of three cool-season turfgrasses during cold acclimation.** D. Sarkar*,¹ P. C. Bhowmik,¹ Y. I. Kwon,² K. Shetty²; ¹Plant Soil and Insect Sciences, UMASS, Amherst, MA, ²Dept. of Food Science, UMASS, Amherst, MA.

2:00PM - 2:15PM

160. **Cool temperatures influence on perennial ryegrass control with flazasulfuron, foramsulfuron, and trifloxysulfuron.** J. B. Willis*, S. D. Askew; Virginia Tech, Blacksburg, VA.

2:15PM - 2:30PM

161. **Flazasulfuron for Virginia buttonweed (*Diodia virginiana*) control in bermudagrass.** B. J. Brecke*, K. Hutto, B. Unruh; West Florida Research and Education Center, University of Florida, Jay, FL.

2:30PM - 2:45PM

162. **Using flazasulfuron for selective control of perennial ryegrass (*Lolium perenne*) in creeping bentgrass (*Agrostis***

stolonifera). M. J. Goddard*, J. B. Willis, S. D. Askew; Virginia Tech, Blacksburg, VA.

2:45PM - 3:00PM

163. **Low-impact conversion of cool-season turf to 'Patriot' bermudagrass.** T. L. Mittlesteadt*. J. M. Goatley, S. D. Askew; Virginia Tech, Blacksburg, VA.

3:00PM - 3:15PM

Business Meeting

TUESDAY PM, February 5

Section 12. Soil and Environmental Aspects

Location: Williford B

Chair: L. J. Krutz*; SWSRU, USDA-ARS, Stoneville, MS.

1:15PM - 1:30PM

164. **Detecting Shifts in Soil Microbial Community Structure and Herbicide Degrading Function Post Landspread of Manure Containing Antimicrobial Chemicals.** S. A. Clay*,¹ K. Lehnert,¹ V. Brozel,² S. Gibson,² A. Hoese¹; ¹Plant Science, South Dakota State University, Brookings, SD, ²Biology/Microbiology, South Dakota State University, Brookings, SD.

1:30PM - 1:45PM

165. **Effects of irrigation with treated wastewater on the efficacy and fate of soil applied herbicides in cotton.** Y. Sagiv*,¹ B. Rubín,¹ B. Chefetz²; ¹Plant Sciences and Genetics in Agriculture, The Hebrew University of Jerusalem, Rehovot, Israel, ²Soil and Water Sciences, The Hebrew University of Jerusalem, Rehovot, Israel.

1:45PM - 2:00PM

166. **Comparative mineralization and fate of glyphosate and bromoxynil in a Dundee silt loam under different tillage management.** R. M. Zablotowicz*,¹ C. Accinelli,² L. J. Krutz,¹ K. N. Reddy¹; ¹SWSRU, USDA-ARS, Stoneville, MS, ²Dept. of Agro-Environmental Science & Technology, Univeristy of Bologna, Bologna, Italy.

2:00PM - 2:15PM

167. **Efficacy of BAS 800H as influenced by soil properties.** A. C. Hixson*,¹ J. B. Weber,¹ F. H. Yelverton,¹ K. E. Keller²; ¹Crop Science, North Carolina State University, Raleigh, NC, ²BASF Corporation, Research Triangle Park, NC.

2:15PM - 2:30PM

168. **Historic atrazine transport parameters are altered in soils exhibiting enhanced degradation.** L. Krutz*,¹ D. L. Shaner,² C. Accinelli,³ R. M. Zablotowicz,¹ W. Henry⁴;

¹SWSRU, USDA-ARS, Stoneville, MS, ²WMRU, USDA-ARS, Fort Collins, CO, ³Agro-Environmental Science and Technology, University of Bologna, Bologna, Italy, ⁴CPHRU, USDA-ARS, Starkville, MS.

2:30PM - 2:45PM

Business Meeting

WEDNESDAY AM, February 6 POSTER SESSION

Location: Northwest Hall

7:30AM – 9:30 AM

AUTHORS OF AGRONOMIC CROPS, HORTICULTURAL CROPS, WILDLANDS AND AQUATIC INVASIVES, REGULATORY ASPECTS, TEACHING & EXTENSION, FORMULATION, ADJUVANT & APPLICATION TECHNOLOGY, BIOCONTROL OF WEEDS, SOIL AND ENVIRONMENTAL ASPECTS, AND INTEGRATED WEED MANAGEMENT POSTERS WILL BE PRESENT

WEDNESDAY AM, February 6 Glyphosate Resistance Mechanisms: Current Understanding and New Insights

Location: Waldorf Room

Chair: V. Nandula*; Mississippi State University, Stoneville, MS.

9:30AM - 10:00AM

169. **The role of absorption and translocation as a mechanism of resistance to glyphosate.** D. Shaner*; USDA-ARS, Fort Collins, CO.

10:00AM - 10:30AM

170. **Metabolic degradation of glyphosate as a mechanism of resistance.** S. O. Duke*; USDA, ARS, University, MS.

10:30AM - 11:00AM

171. **Glyphosate toxicity and translocation in glyphosate-resistant *Amaranthus spp.*** R. D. Sammons*, A. Herr, M. Faletti, D. Gustafson; Monsanto, St. Louis, MO.

11:00AM - 11:30AM

172. **A decade of glyphosate resistant *Lolium* around the world: mechanisms, genes, fitness and agronomic management.** C. Preston*,¹ A. M. Wakelin,¹ F. Dolman,¹ P. Boutsalis,¹ J. Baker,¹ S. B. Powles²; ¹University of

Adelaide, Glen Osmond, SA, Australia, ²University of Western Australia, Crawley, WA, Australia.

11:30AM - 12:00PM

173. **New glyphosate and multiple herbicide-resistant crops for effective weed management in row crops.** J. M. Green*; Pioneer Hi-Bred International, Newark, DE.

WEDNESDAY AM, February 6

Section 6. Regulatory Aspects

Location: Marquette Room

Chair: R. G. Westbrooks*; U.S. Geological Survey, Whiteville, NC.

9:30AM - 9:45AM

174. **Overview of a New Training Course for Invasive Species Prevention Specialists in Developing Countries.** S. Manning*,¹ R. M. Westbrooks,² R. G. Westbrooks²; ¹Invasive Plant Control, Inc., Nashville, TN, ²Southeastern Community College, Whiteville, NC.

9:45AM - 10:00AM

175. **"Nothing new under the sun?" Comparing weed risk assessment and screening tools for the United States and Australia.** B. Caton*; Plant Epidemiology and Risk Analysis Laboratory, USDA-APHIS-PPQ, Raleigh, NC.

10:00AM - 10:15AM

176. **Interception and identification of Federal Noxious Weeds at U.S. Ports of Entry, 2006.** M. L. Smither-Kopperl*; USDA-APHIS, SeaTac, WA.

10:15AM - 10:30AM

177. **Data Management Challenges in Regulatory Weed Programs.** M. A. Bravo*; Weed Science Department, Penn State University/ Pennsylvania Department of Agriculture, Harrisburg, PA.

10:30AM - 10:45AM

178. **Summary results for a web-based, Invasive Plant Electronic Discussion hosted by USDA-APHIS.** C. L. Ramsey*, P. P. Lehtonen, D. R. Prokrym, S. M. Talley; CPHST Lab Fort Collins, CO, USDA-APHIS, Fort Collins, CO.

10:45AM - 11:00AM

179. **Early detection and rapid response and the Federal Incident Command system.** A. V. Tasker*; Plant Protection & Quarantine, Emergency & Domestic Programs, USDA Animal & Plant Health Inspection Service, Riverdale, MD.

11:00AM - 11:15AM

180. **The Federal Noxious Weed Program in FY 2007 in the Western States, an Overview.** D. R. Givens*; USDA, APHIS, PPQ, Fort Collins, CO.

11:15AM - 11:30AM

181. **Status of the witchweed (*Striga asiatica*) eradication program in North and South Carolina.** R. Iverson*; Plant Industry Division, North Carolina Dept. of Agriculture, Raleigh, NC.

11:30AM - 11:45AM

182. **New approaches for eradication of giant salvinia (*Salvinia molesta*) from small isolated infestations in eastern North Carolina through interagency partnering - 2002–2007.** R. G. Westbrooks*,¹ W. Batten²; ¹U.S. Geological Survey, Biological Resources Discipline, Whiteville, NC, ²Pender County Cooperative Extension Service, Burgaw, NC.

11:45AM - 12:00PM

Business Meeting

WEDNESDAY AM, February 6 Section 9. Weed Biology and Ecology

Location: Williford C

Chair: A. Dille*; Agronomy, Kansas State University, Manhattan, KS.

9:45AM - 10:00AM

183. **Is Invasive Plant Monitoring Worth The Effort?** B. D. Maxwell*,¹ L. J. Rew,¹ E. Lehnhoff²; ¹Land resources and Environmental Science, Montana State University, Bozeman, MT, ²Land Resources and Environmental Science, Montana State University, Bozeman, MT.

10:00AM - 10:15AM

184. **Allelopathy and plant invasions.** I. Singh*; University of Delhi, Delhi, India.

10:15AM - 10:30AM

185. **Allelopathy as a Corollary Effect of Resource Acquisition Mechanism: a Case Study with *Centaurea diffusa*.** N. Tharayil*,¹ P. C. Bhowmik,¹ P. Alpert²; ¹Plant, Soil, & Insect Sciences, University of Massachusetts Amherst, Amherst, MA, ²Biology Department, University of Massachusetts Amherst, Amherst, MA.

10:30AM - 10:45AM

186. **Hormesis in joint action studies with phytotoxins from *Parthenium hysterophorus* L.** R. G. Belz*; Dept. of Weed Science, Univ. of Hohenheim, Stuttgart, Germany.

10:45AM - 11:00AM

187. **Biodiversity of weedy rice in the southern U.S. and its implications on crop-weed ecology and management.** N. R. Burgos*,¹ V. K. Shivrain,¹ M. A. Sales,¹ D. R. Gealy,² R. C. Scott,³ K. L. Smith⁴; ¹Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR, ²USDA-ARS, Dale Bumpers National Rice Research Center, Stuttgart, AR, ³Crop, Soil, and Environmental Sciences, Arkansas Cooperative Extension Service, Lonoke, AR, ⁴Crop, Soil, and Environmental Sciences, Arkansas Cooperative Extension Service, Monticello, AR.

11:00AM - 11:15AM

188. ***qSD7-1* is the first dormancy QTL cloned from weedy rice (*Oryza sativa*).** M. E. Foley*,¹ X. Gu,² J. V. Anderson,¹ D. P. Horvath¹; ¹USDA-Agricultural Research Service, Fargo, ND, ²South Dakota State University, Brookings, SD.

11:15AM - 11:30AM

189. **Gene flow from sorghum to wild and weedy conspecifics in Africa and the USA: implications for transgenic sorghum.** A. Snow*,¹ P. Sweeney,¹ S. Su,¹ M. Reagon,¹ C. Grenier,² G. Ejeta,² I. Kapran,³ T. Tesso,⁴ J. Pedersen,⁵ G. Bothma⁶; ¹Evolution, Ecology, and Organismal Biology, Ohio State University, Columbus, OH, ²Department of Agronomy, Purdue University, West Lafayette, IN, ³Institut National de la Recherche Agronomique du Niger, Niamey, Niger, ⁴Ethiopian Institute of Agricultural Research, Nazareth, Ethiopia, ⁵USDA-ARS, Lincoln, NE, ⁶ARC-Roodeplaat, Pretoria, South Africa.

11:30AM - 11:45AM

190. **Preliminary estimates of pollen size and settling velocity for *Amaranthus palmeri*.** L. M. Sosnoskie*,¹ T. M. Webster,² D. Dales,³ G. C. Rains,³ A. S. Culpepper¹; ¹Crop and Soil Sciences, University of Georgia, Tifton, GA, ²Crop Protection and Management Research Unit, USDA-ARS, Tifton, GA, ³Biological and Agricultural Engineering, University of Georgia, Tifton, GA.

11:45AM - 12:00PM

191. **Agricultural connectivity increase glyphosate-resistant horseweed spread.** J. Dauer*,¹ E. Luschei,² D. Mortensen³; ¹Botany and Plant Pathology, Oregon State University, Corvallis, OR, ²Agronomy, University of Wisconsin, Madison, WI, ³Crop and Soil Science, The Pennsylvania State University, University Park, PA.

WEDNESDAY AM, February 6
Section 1. Agronomic crops

Location: Williford B

Chair: P. J. Porpiglia*; Kumiai America, White Plains, NY.

10:00AM - 10:15AM

192. **Volunteer potato (*Solanum tuberosum*) interference in sugar beet (*Beta vulgaris*).** D. W. Morishita*,¹ J. Felix²; ¹Plant, Soil, and Entomological Science, University of Idaho, Twin Falls, ID, ²Malheur Experiment Station, Oregon State University, Ontario, OR.

10:15AM - 10:30AM

193. **Interaction of penoxsulam and propanil on Alligatorweed (*Alternanthera philoxeroides*) control.** S. D. Willingham*, G. N. McCauley, J. M. Chandler; Soil and Crop Sciences, Texas A&M University, College Station, TX.

10:30AM - 10:45AM

194. **Weed Resistance Management in Roundup-Ready Flex Cotton.** S. B. Clewis*, W. J. Everman, D. L. Jordan, J. W. Wilcut; Crop Science, NC State University, Raleigh, NC.

10:45AM - 11:00AM

195. **Synergistic effect of PBO 30 EW on ALS-inhibiting herbicides.** A. Perez-Jones*, C. Mallory-Smith; Crop and Soil Science, Oregon State University, Corvallis, OR.

11:00AM - 11:15AM

196. **Effects of johnsongrass density and pre-harvest burning on sugarcane production.** C. D. Dalley*, E. P. Richard; Sugarcane Research Unit, USDA-ARS-SRRC, Houma, LA.

11:15AM - 11:30AM

Business Meeting

WEDNESDAY AM, February 6
Section 5. Wildlands and Aquatic Invasives

Location: Williford A

Chair: L. Nelson*; Army Corps of Engineers, Vicksburg, MS.

9:45AM - 10:00AM

197. **A Case Study in the Selective Control of Eurasian Watermilfoil (*Myriophyllum spicatum*): Five Years of Results.** J. F. Petta*,¹ M. Bellaud,² G. Smith,² M. Lennon²; ¹Syngenta Professional Products, Corpus Christi, TX, ²Aquatic Control Technology, Sutton, MA.

10:00AM - 10:15AM

198. **Control of West Indian marsh grass (*Hymenachne amplexicaulis*) in Florida.** B. A. Sellers*,¹ K. Langeland,² C. J. Gray³; ¹Range Cattle Research and Education Center and Dept. of Agronomy, University of Florida, Ona, FL, ²Agronomy, University of Florida, Gainesville, FL, ³UPI, Peyton, CO.

10:15AM - 10:30AM

199. **Detection of herbicide injury on waterhyacinth (*Eichhornia crassipes*) using Landsat 5 TM simulated data.** W. Robles*, J. D. Madsen; Mississippi State University, Starkville, MS.

10:30AM - 10:45AM

200. **Early Detection and Rapid Response Planning for *Lagarosiphon major* and *Trapa natans* Introductions in the Western United States.** L. W. Anderson*,¹ M. D. Sytsma²; ¹USDA-ARS Exotic and Invasive Weed Control Research, Davis, CA, ²Center for Lakes and Reservoirs, Portland State University, Portland, OR.

10:45AM - 11:00AM

201. **Analysis of exotic control efforts for shoebutt on ardisia (*Ardisia elliptica*) infested sites in the South Dade Wetlands Management Area.** M. A. Messer*, G. M. Burzycki; Environmental Resources Management, Miami-Dade County, Miami, FL.

11:00AM - 11:15AM

202. **Qualitative influence of fire on succession in a forested wetland following herbicide treatment of shoebutt on ardisia (*Ardisia elliptica*) in the South Dade Wetlands Management Area.** H. C. Giannini*, G. M. Burzycki; Environmental Resources Management, Miami-Dade County, Miami, FL.

11:15AM - 11:30AM

203. **Second year results for Escort, Habitat, and Journey control of common tansy (*Tanacetum vulgare*).** S. M. Talley*, C. L. Ramsey; CPHST Lab Fort Collins, CO, USDA-APHIS, Fort Collins, CO.

11:30AM - 11:45AM

204. **Invasive plants of the Cumberland Plateau and Mountain region - regional and local landscape drivers.** D. Lemke*,¹ P. Hulme,² J. Brown,¹ C. Schweitzer,³ W. Tadesse,⁴ Y. Wang,⁴ L. Dimov⁴; ¹Mathematics and Statistics, Canterbury University, Christchurch, New Zealand, ²National Centre for Advanced Bio-Protection Technologies, Lincoln University, Lincoln, New Zealand, ³Southern Research Station, USDA Forest Service, Normal, AL, ⁴NRES, Alabama A & M University, Normal, AL.

11:45AM - 12:00PM

Business Meeting

WEDNESDAY PM, February 6
Roundtable Discussions - New Journal on Invasive
Plant Science and Management

Location: Northwest Hall

Chair: J. M. DiTomaso*; Plant Sciences, University of California, Davis, Davis, CA

12:00PM - 1:00PM

WEDNESDAY PM, February 6
Invasive Plant Species and the New Bioeconomy

Location: Williford C

Chair: A. Davis*; USDA-ARS, Urbana, IL.

1:00PM - 1:15PM

Introduction to the symposium. A. Davis*; USDA-ARS, Urbana, IL.

1:15PM - 1:45PM

205. Adding biofuels to the invasive species fire? D. Simberloff*; University of Tennessee, Knoxville, TN.

1:45PM - 2:15PM

206. Arundo donax: a case study of a feedstock crop with invasive potential. R. N. Mack*; Washington State University, Pullman, WA.

2:15PM - 3:00PM

207. Carbon-negative biofuels from low-input high-diversity grassland biomass. J. Hill*; University of Minnesota, St. Paul, MN.

3:00PM - 3:30PM

Break

3:30PM - 4:00PM

208. Trait-based models for identifying potential plant invaders: an Australian experience. R. Cousens*; University of Melbourne, Richmond, Victoria, Australia.

4:00PM - 4:30PM

209. Benefits from, and strategies for containing, biofuel feedstock species. D. Bransby*; Auburn University, Auburn University, AL.

4:30PM - 5:15PM

Discussion

WEDNESDAY PM, February 6
The Role, Value, and Importance of
Complementary Herbicides for Weed
Management in Glyphosate-Tolerant Crops

Location: Waldorf Room

Chair: D. R. Forney*; Crop Protection, DuPont, Newark, DE.

1:00PM - 1:15PM

210. **The Status and Needs of Integrated Weed Management in Glyphosate-Tolerant Crops in the U.S.** H. Coble*; USDA, Cary, NC.

1:15PM - 1:30PM

211. **Herbicide usage and trends in glyphosate tolerant crops in the U.S.** L. Gianessi*; CropLife Foundation, Washington, DC.

1:30PM - 1:45PM

212. **Weed management status and needs in glyphosate-tolerant crops in the Southeast.** A. C. York*; North Carolina State University, Raleigh, NC.

1:45PM - 2:00PM

213. **Weed management status and needs in glyphosate tolerant crops in the Delta.** D. B. Reynolds*; Mississippi State University, Mississippi State, MS.

2:00PM - 2:15PM

214. **Weed management status and needs in glyphosate-tolerant crops in the Eastern corn belt.** M. M. Loux*; The Ohio State University, Columbus, OH.

2:15PM - 2:30PM

215. **Weed management status and needs in glyphosate resistant crops in the Mid-West.** M. D. Owen*; Iowa State University, Ames, IA.

2:30PM - 2:45PM

216. **Weed management status and needs in glyphosate tolerant crops in the Western corn belt.** P. Westra*; Colorado State University, Ft. Collins, CO.

2:45PM - 3:00PM

217. **ALS herbicides - role and fit in weed management programs in glyphosate tolerant crops.** D. W. Saunders*,¹ D. R. Forney,² T. K. Chicoine,¹ D. D. Dawes,³ K. A. Peeples,² J. M. Green⁴; ¹DuPont Crop Protection, Johnston, IA, ²DuPont Crop Protection, Newark, DE, ³DuPont Crop Protection, Noblesville, IN, ⁴Pioneer Hi-Bred International, Newark, DE.

3:00PM - 3:30PM

Break

3:30PM - 3:45PM

218. Photosystem II (PS II) inhibitor herbicides - Role and fit in weed management programs in glyphosate tolerant crops.

C. Foresman*, L. Glasgow, G. Hill; Syngenta Crop Protection, Inc., Greensboro, NC.

3:45PM - 4:00PM

219. Chloroacetamide herbicides - Role and fit in weed management programs in glyphosate tolerant crops.

R. Cole*; Monsanto Company, St. Louis, MO.

4:00PM - 4:15PM

220. PPO herbicides - Role and fit in weed management programs in glyphosate tolerant crops.

J. A. Pawlak*; Valent USA Corp., Lansing, MI.

4:15PM - 4:30PM

221. Auxinic Herbicides: Role and Fit in Weed Management Programs in Glyphosate Tolerant Crops.

T. R. Wright*, B. C. Gerwick, R. S. Chambers, G. A. Hanger, D. Fonseca, D. M. Simpson; Dow AgroSciences, Indianapolis, IN.

4:30PM - 4:45PM

222. HPPD herbicides - Role and fit in weed management programs in glyphosate tolerant crops.

R. Liebl*,¹ T. Seitz²; ¹BASF Corporation, Research Triangle Park, NC, ²BASF AG, Ludwigshafen, Germany.

4:45PM - 5:15PM

Discussion

**WEDNESDAY PM, February 6
Section 8. Formulation, Adjuvant, and
Application Technology**

Location: Williford B

Chair: B. Young*; Southern Illinois University, Carbondale, IL.

1:00PM - 1:15PM

223. A novel preemergence herbicide delivery system in turfgrass establishment.

D. Penner*, B. Drzewicki, J. Michael; Crop and Soil Sciences, Michigan State University, East Lansing, MI.

1:15PM - 1:30PM

224. Reducing ACCase antagonism using a novel adjuvant system.

R. Ramachandran*,¹ A. Shulkin,¹ M. Cordingley,² N. Polge,³ P. Doyle,¹ M. Stypa¹; ¹Syngenta Crop Protection Canada Inc., Guelph, ON, Canada, ²Syngenta Jealotts

Hill Int., Jeallots Hill, UK, United Kingdom, ³Syngenta Crop Protection Crop., Vero Beach, FL.

1:30PM - 1:45PM

225. **The effect of adjuvants and their concentrations on rainfast of glyphosate.** S. D. Sharma*, M. Singh; Citrus Research and Education Center, University of Florida, Lake Alfred, FL.

1:45PM - 2:00PM

226. **Spray Nozzle Tip Selection for Preemergence, Post-emergence, Contact and Translocated Herbicides to Maximize Efficacy While Managing Spray Drift.** R. N. Klein*, J. A. Golus, A. S. Cox; University of Nebraska, North Platte, NE.

2:00PM - 2:30PM

227. **Current status of EPA's Pesticide Drift Reduction Technology Program and how it may impact pesticide applications.** R. E. Wolf*; Biological and Agricultural Engineering, Kansas State University, Manhattan, KS.

2:30PM - 3:00PM

Discussion

3:00PM - 3:30PM

Break

3:30PM - 3:45PM

Business Meeting

WEDNESDAY PM, February 6

Section 11. Physiology

Location: Marquette Room

Chair: J. D. Burton*; North Carolina State Univ, Raleigh, NC.

1:00PM - 1:15PM

228. **Genome-wide analysis of the nitrogen stress transcriptome of rice.** M. A. Sales*,¹ V. K. Shivrain,¹ N. R. Burgos,¹ K. Y. Yun,² B. G. de los Reyes²; ¹Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR, ²University of Maine, Orono, ME.

1:15PM - 1:30PM

229. **Inhibition of Plant Enoyl (Acyl Carrier Protein) Reductase by the Natural Diphenyl Ether Cyperin.** F. E. Dayan*,¹ Z. Pan,¹ D. Ferreira,² Y. Wang,² I. Khan²; ¹NPURU, USDA-ARS, University, MS, ²Univ. of Mississippi, University, MS.

1:30PM - 1:45PM

230. **Responses of late watergrass (*Echinochloa phyllopogon*) to clomazone and keto-clomazone.** H. Yasuor*, A. J.

Fischer; Plant Sciences, University of California, Davis, CA.

1:45PM - 2:00PM

231. **Chlorophyll fluorescence analyses for understanding the mechanism of mesotrione-atrazine synergism.** J. A. Hugie*,¹ J. C. Streibig,² X. Zhu,³ C. P. Chen,³ S. P. Long,⁴ D. E. Riechers¹; ¹Crop Sciences, University of Illinois, Urbana, IL, ²Agricultural Sciences, The Royal Veterinary and Agricultural University, Taastrup, Denmark, ³Plant Biology, University of Illinois, Urbana, IL, ⁴Crop Sciences and Plant Biology, University of Illinois, Urbana, IL.

2:00PM - 2:15PM

232. **Are Variable Levels of Glyphosate Resistance in Field Populations of Horseweed Heritable?** V. M. Davis*,¹ G. R. Kruger,¹ S. C. Weller,² W. G. Johnson¹; ¹Botany and Plant Pathology, Purdue University, West Lafayette, IN, ²Horticulture and Landscape Architecture, Purdue University, West Lafayette, IN.

2:15PM - 2:30PM

233. **A molecular survey of field-evolved AHAS/ALS herbicide resistance mutations in wild radish (*Raphanus raphanistrum*) from Western Australia reveals significant diversity in allele frequency and distribution, and two new mutations.** S. Friesen*, M. Walsh, S. Powles; WAHRI, University of Western Australia, Perth, Australia.

2:30PM - 2:45PM

234. **Impact of plant and environmental factors on ALS-resistant gene transfer rate from Clearfield™ rice to red rice biotypes.** V. K. Shivrain*,¹ N. R. Burgos,¹ M. A. Sales,¹ K. L. Smith,² D. R. Gealy,³ H. L. Black³; ¹Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR, ²University of Arkansas, Monticello, AR, ³Dale Bumpers National Rice Research Center, USDA-ARS, Stuttgart, AR.

2:45PM - 3:00PM

Business Meeting

WEDNESDAY PM, February 6 Section 2. Horticultural Crops

Location: Williford A

Chair: M. M. Williams*; Invasive Weed Management, USDA-ARS, Urbana, IL.

3:30PM - 3:45PM

235. **Evaluation of the effects of herbicides on baby and first-year red raspberries.** T. W. Miller*; Washington State University, Mount Vernon, WA.

3:45PM - 4:00PM

236. **Development of oxyfluorfen based weed control programs for strawberry.** S. A. Fennimore*, J. B. Weber, J. S. Rachuy; Plant Sciences, University of California Davis, Salinas, CA.

4:00PM - 4:15PM

237. **Selectivity and efficacy of BAS 800H in tree fruit and nut crops.** K. E. Keller*, P. H. Munger, L. J. Newsom, J. H. O'Barr, M. A. Landes; BASF Corporation, Research Triangle Park, NC.

4:15PM - 4:30PM

238. **Greenhouse bioassay to determine impact of mesotrione residues on vegetable crops.** R. Riddle*, J. O'Sullivan, C. J. Swanton; Plant Agriculture, University of Guelph, Guelph, ON, Canada.

4:30PM - 4:45PM

239. **Weed control in machine-harvested pickling cucumbers.** B. H. Zandstra*, E. J. Ott; Department of Horticulture, Michigan State University, East Lansing, MI.

4:45PM - 5:00PM

240. **Herbicide evaluation for crop injury and yield in mustard and turnip greens.** R. W. Wallace*, A. K. Petty; Horticultural Sciences, Texas A & M University, Lubbock, TX.

WEDNESDAY PM, February 6 WSSA Business Meeting

Location: Marquette Room

Chair: J. Schroeder*; Entomology, Plant Pathology and Weed Science, New Mexico State University, Las Cruces, NM.

5:30PM - 6:45PM

WSSA Society Business Meeting

6:45PM - 9:00PM

Reception

Williford ABC

THURSDAY AM, February 7 Charting the Course for Weed Genomics

Location: Waldorf Room

Chair: P. Tranel*; University of Illinois, Urbana, IL

8:45AM - 9:00AM

Introduction to the Symposium P. Tranel*; University of Illinois, Urbana, IL

9:00AM - 9:30AM

241. **Model Weeds: An Emerging Tool for Weed Research.** D. Horvath*, W. Chao, J. Anderson, M. Foley; USDA-ARS, Fargo, ND.

9:30AM - 10:00AM

242. **Can genomics contribute to an understanding of plant-plant interactions?** S. O. Duke*; USDA, ARS, University, MS.

10:00AM - 10:30AM

Break

10:30AM - 11:00AM

243. **Non-target glyphosate resistance: how does *Conyza canadensis* do it?** C. N. Stewart*,¹ L. L. Good,¹ J. S. Yuan,¹ P. J. Tranel²; ¹University of Tennessee, Knoxville, TN, ²University of Illinois, Champagne-Urbana, IL.

11:00AM - 11:30AM

244. **Genomics of an invasive model species, *Brachypodium distachyon*.** E. G. Bakker*, E. T. Borer, J. H. Chang, A. I. Liston, P. McEvoy, T. C. Mockler, E. Seabloom; Oregon State University, Corvallis, OR.

11:30AM - 12:00PM

245. **Evolutionary Genomics of Compositae Weeds.** L. Rieseberg*; University of British Columbia, Vancouver, BC, Canada.

12:00PM - 12:30PM

246. **Genomics are boring, but look what the data could do for weed management!** J. Gressel*; Weizmann Institute of Science, Rehovot, Israel.

THURSDAY AM, February 7 Section 2. Horticultural Crops

Location: Williford A

Chair: M. M. Williams*; Invasive Weed Management, USDA-ARS, Urbana, IL.

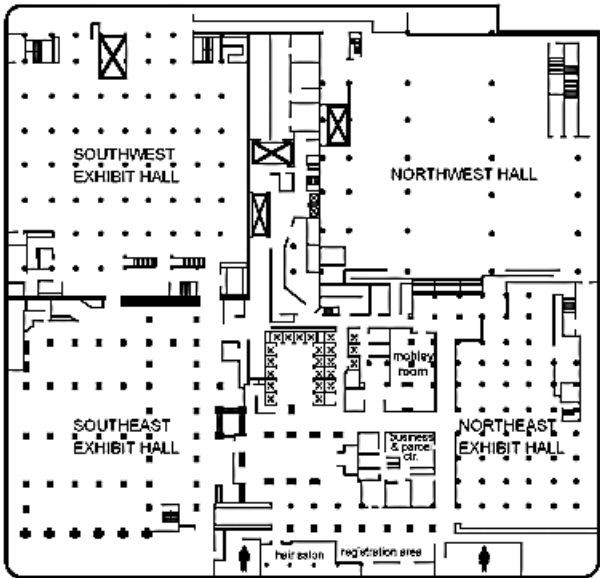
8:00AM - 8:15AM

248. **Potential new pre- and postemergence herbicides for weed control in carrots.** E. J. Ott*, B. H. Zandstra; Department of Horticulture, Michigan State University, East Lansing, MI.

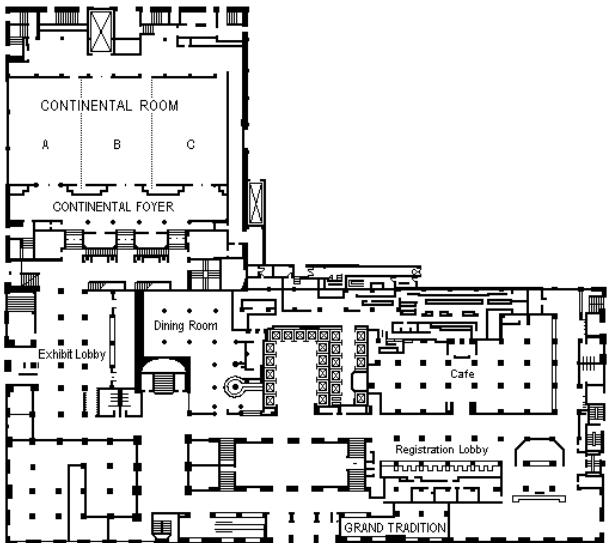
8:15AM - 8:30AM

249. **Integrated management of swamp dodder (*Cuscuta gronovii*) in processing carrot production.** C. M. Konieczka*, J. B. Colquhoun, R. A. Rittmeyer; Horticulture, University of Wisconsin, Madison, WI.

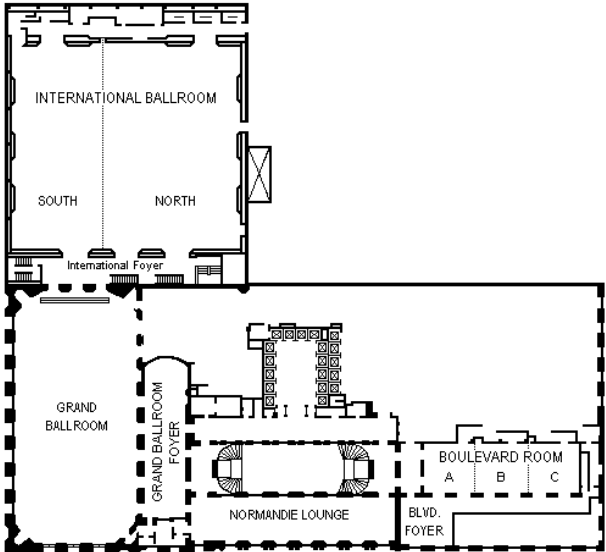
HILTON CHICAGO - LOWER LEVEL



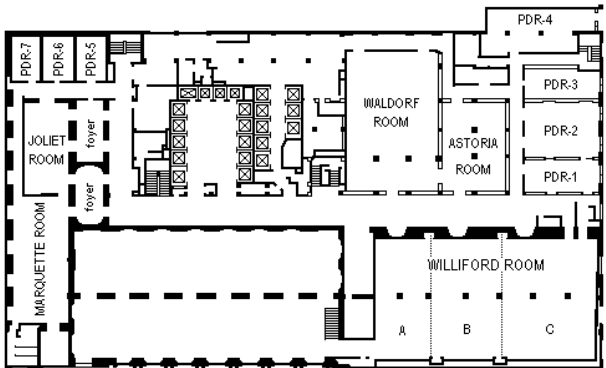
HILTON CHICAGO - LOBBY LEVEL



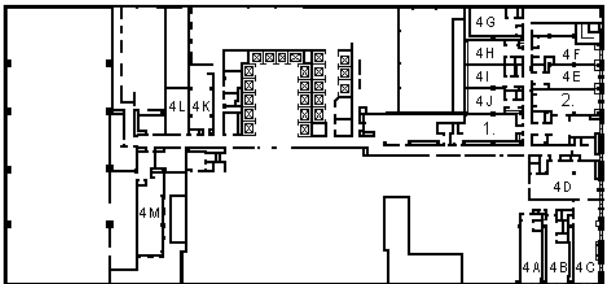
HILTON CHICAGO - SECOND FLOOR



HILTON CHICAGO - THIRD FLOOR



HILTON CHICAGO - FOURTH FLOOR CONFERENCE ROOMS



1. PULLMAN BOARDROOM 2. McCORMICK BOARDROOM

8:30AM - 8:45AM

250. **Transition Approaches and Soil Management Influence Weed Seed Banks in Organic Crops.** I. Rosa*, J. Masiunas; Natural Resources and Environmental Sciences, University of Illinois, Urbana, IL.

8:45AM - 9:00AM

251. **Weed management practices in organic processing sweet corn and snap beans.** H. Kraiss*, J. Colquhoun, A. J. Bussan, R. Rittmeyer; Horticulture, University of Wisconsin, Madison, WI.

9:00AM - 9:15AM

252. **Crop rotation, cover crop, and weed management effects on weed seedbanks and yields in snap beans, sweet corn, and cabbage.** D. C. Brainard*,¹ R. R. Bellinder,² R. R. Hahn,³ D. A. Shah⁴; ¹Horticulture, Michigan State University, East Lansing, MI, ²Horticulture, Cornell University, Ithaca, NY, ³Crop and Soil Sciences, Cornell University, Ithaca, NY, ⁴Plant Pathology, Cornell University, Geneva, NY.

9:15AM - 9:30AM

253. **Residual weeds of sweet corn in the North Central United States.** T. L. Rabaey*,¹ M. M. Williams,² C. M. Boerboom³; ¹Agriculture Research, General Mills, LeSueur, MN, ²USDA-ARS, Urbana, IL, ³Univ of Wisconsin, Madison, WI.

9:30AM - 9:45AM

254. **Sweet corn (*Zea mays*) hybrid tolerance to postemergence herbicides.** J. D. Bollman*,¹ C. M. Boerboom,¹ M. J. VanGessel,² R. R. Bellinder,³ G. L. Jordan,⁴ R. L. Becker,⁵ E. Peachey⁶; ¹Univ. of Wisconsin-Madison, Madison, WI, ²Univ. of Delaware, Georgetown, DE, ³Cornell Univ., Ithaca, NY, ⁴A.C.D.S Research, North Rose, NY, ⁵Univ. of Minnesota, St. Paul, MN, ⁶Oregon State Univ., Corvallis, OR.

9:45AM - 10:00AM

255. **Inheritance of Sweet Corn Sensitivity to Tembotrione.** J. K. Pataky*,¹ M. M. Williams²; ¹Department of Crop Sciences, University of Illinois, Urbana, IL, ²Invasive Weed Management, USDA-ARS, Urbana, IL.

10:00AM - 10:30AM

Break

10:30AM - 10:45AM

256. **The IR-4 Project: Update on Weed Control Projects.** F. P. Salzman*, M. Arsenovic, W. P. Barney, R. C. Leonard, D. L. Kunkel; IR-4 Project, Princeton, NJ.

10:45AM - 11:00AM

Business Meeting

THURSDAY AM, February 7
Section 9. Weed Biology and Ecology

Location: Williford C

Chair: A. Dille*; Agronomy, Kansas State University, Manhattan, KS.

8:00AM - 8:15AM

257. **Canada thistle (*Cirsium arvense* L.) wind dispersal.** M. J. Haar*,¹ R. L. Becker,² L. A. Stahl,³ R. P. Miller,⁴ L. D. Klossner,¹ B. D. Kinkaid²; ¹Southwest Research and Outreach Center, University of Minnesota, Lamberton, MN, ²Agronomy and Plant Genetics, University of Minnesota, St. Paul, MN, ³Extension, University of Minnesota, Worthington, MN, ⁴Extension, University of Minnesota, Albert Lea, MN.

8:15AM - 8:30AM

258. **Reproductive biology and integrated management of Canada thistle (*Cirsium arvense* (L.) Scop.).** J. Sciegienka, F. Menalled*; Land Resources and Environmental Sciences, Montana State University, Bozeman, MT.

8:30AM - 8:45AM

259. **Summer Annual Cover Crops for Canada Thistle Management.** J. B. Masiunas*, A. Bicksler; Natural Resources and Environmental Sciences, University of Illinois, Urbana, IL.

8:45AM

260. **Evaluation of Seed Treatment as a Cultural Control Strategy for Weed Control in Organic Corn.** N. J. Goeser*, E. C. Luschei; Agronomy, University of Wisconsin - Madison, Madison, WI.

9:00AM - 9:15AM

261. **Control of weed size by compost application rate in an organic cropping system.** Charles L. Mohler, Cornell Univ., Ithaca, NY; Thomas Björkman, New York Agricultural Experiment Station, Geneva, NY; and Antonio DiTommaso, Cornell Univ., Ithaca, NY., C. L. Mohler*,¹ T. Björkman,² A. DiTommaso¹; ¹Crop and Soil Science, Cornell University, Ithaca, NY, ²Horticultural Sciences, Cornell University, Geneva, NY.

9:15AM - 9:30AM

262. **The effect of oat seed size on tame oat competition with wild oat.** S. J. Shirtliffe*,¹ W. E. May,² C. J. Willenborg³; ¹Department of Plant Sciences, University of Saskatchewan, Saskatoon, SK, Canada, ²Agriculture and Agrifood

Canada, Indian Head, SK, Canada, ³Department of Plant Science, University of Manitoba, Winnipeg, MB, Canada.

9:30AM - 9:45AM

263. **Exploring the mechanisms underlying the critical period for weed control in *Zea mays* (L.).** E. R. Page*, M. T. Tollenaar, E. A. Lee, L. Lukens, C. J. Swanton; Plant Agriculture, University of Guelph, Guelph, ON, Canada.

9:45AM - 10:00AM

264. **The interaction between soil nitrogen levels and velvetleaf (*Abutilon theophrasti* Medic.) densities on glyphosate and glufosinate efficacy.** D. J. Vermey*, D. E. Robinson, C. J. Swanton; Plant Agriculture, University of Guelph, Guelph, ON, Canada.

10:00AM - 10:30AM

Break

10:30AM - 10:45AM

265. **Interaction of salt, temperature, light and dormancy affecting giant foxtail (*Setaria faberi*) seed germination.** J. Dekker*, J. Gilbert; Agronomy, Iowa State University, Ames, IA.

10:45AM - 11:00AM

266. **Emergence and performance of pale and black swallow-wort on two New York soils at three pH levels.** L. C. Magidow*,¹ A. DiTommaso,¹ Q. M. Ketterings,¹ L. R. Milbrath²; ¹Crop and Soil Sciences, Cornell University, Ithaca, NY, ²US Plant, Soil and Nutrition Laboratory, USDA-ARS, Ithaca, NY.

11:00AM - 11:15AM

267. **Weed Emergence Patterns in Kansas Soybean as affected by Management Practices.** A. M. Ndou*, J. A. Dille, D. E. Peterson; Agronomy, Kansas State University, Manhattan, KS.

11:15AM - 11:30AM

268. **Net influence of earthworms (*Lumbricus terrestris*) on giant ragweed (*Ambrosia trifida*) seedling recruitment.** J. Liu*, E. Regnier, K. Harrison, C. Holloman, J. Schmoll, F. Diekman, D. Barker; Ohio State Univ., Columbus, OH.

11:30AM - 11:45AM

269. **What's the risk of a bio-based energy economy?** J. Barney*, J. DiTomaso; Plant Sciences, University of California, Davis, CA.

11:45AM - 12:00PM

Business Meeting

THURSDAY AM, February 7
Section 4. Pasture, Range, Forest, and
Rights-of-Way

Location: Marquette Room

Chair: E. D. Dickens*; Warnell School of Forestry and Natural Resources, UGA, Statesboro, GA.

8:15AM - 8:30AM

270. Post-Plant Banded Herbicide Treatment and Spot Application of DAP and Poultry Litter at Establishment in an Old-Field Planted Loblolly Pine Plantation. E. D. Dickens*,¹ T. Price,² B. C. McElvany,³ D. J. Moorhead⁴; ¹Warnell School of Forestry and Natural Resources, UGA, Statesboro, GA, ²College of Agriculture and Environmental Sciences, UGA, Cordele, GA, ³College of Agriculture and Environmental Sciences, UGA, Soperton, GA, ⁴Warnell School of Forestry and Natural Resources, UGA, Tifton, GA.

8:30AM - 8:45AM

271. Chopper+GLYFOS PRO or INC-109+GLYFOS PRO for the preparation of loblolly pine sites. J. L. Yeiser*; Forestry, Stephen F. Austin State University, Nacogdoches, TX.

8:45AM - 9:00AM

272. Efficacy of chemical site preparation for first-year competition control in oak plantations. A. B. Self*, A. W. Ezell; Forestry, Miss. State Univ., Miss. State, MS.

9:00AM - 9:15AM

273. Loblolly pine seedling performance from herbaceous weed control with Oust Extra. J. L. Yeiser,¹ A. W. Ezell,² T. Corbett*¹; ¹Forestry, Stephen F. Austin State University, Nacogdoches, TX, ²Forestry, Mississippi State University, Mississippi State, MS.

9:15AM - 9:30AM

274. Hemp dogbane (*Apocynum cannabinum* L.) control using broadcast applications or a rope-wick. R. S. Wright*, J. D. Byrd; Mississippi State University, Mississippi State, MS.

9:30AM - 9:45AM

275. Aminopyralid—a new option for managing woody and herbaceous weeds when establishing slash (*P elliottii*) and loblolly (*P taeda*) pine plantations. J. L. Yeiser*; Forestry, Stephen F. Austin State Univ., Nacogdoches, TX.

9:45AM - 10:00AM

276. Effect of different surfactants on herbicide efficacy in brush control treatments for rights-of-way. A. W. Ezell*; Forestry, Miss. State Univ., Miss. State, MS.

10:00AM - 10:30AM

Break

10:30AM - 10:45AM

277. **Yellow starthistle root growth, distribution, and water use patterns.** J. M. DiTomaso*, S. L. Young, V. P. Claassen; Plant Sciences, University of California, Davis, Davis, CA.

10:45AM - 11:00AM

278. **Efficacy of Aminopyralid on Glyphosate Resistant *Conyza* Species.** V. F. Peterson*,¹ R. L. Smith,² J. A. Nelson,³ S. D. Wright,⁴ M. W. Melichar,² D. J. Maxwell⁵; ¹Dow AgroSciences, Mulino, OR, ²Dow AgroSciences, Indianapolis, IN, ³Dow AgroSciences, Calgary, AB, Canada, ⁴University of California, Tulare, CA, ⁵University of Illinois, Urbana-Champaign, IL.

11:00AM - 11:15AM

279. **Management strategies to reduce tall ironweed (*Vernonia altissima*) populations in cool-season grass pastures interseeded with legumes.** J. D. Green*, W. W. Witt; Plant and Soil Sciences, University of Kentucky, Lexington, KY.

11:15AM - 11:30AM

280. **Control of herbaceous weeds and subsequent pine seedling performance: a comparison of Oust Extra, SFM Extra, Arsenal AC+Oust XP and 4SL+SFM 75.** J. L. Yeiser*; Forestry, Stephen F. Austin State Univ., Nacogdoches, TX.

11:30AM - 11:45AM

Business Meeting

THURSDAY AM, February 7

Section 7. Teaching and Extension

Location: Williford B

Chair: E. P. Prostko*; Department of Crop & Soil Sciences, The University of Georgia, Tifton, GA.

11:15AM - 11:30AM

281. **The Attitudes, Beliefs and Preferences of Scientists and Farmers about Weeds and Weed Management.** R. Wilson*,¹ M. Tucker,² N. Hooker,¹ J. LeJeune,³ D. Doohan³; ¹The Ohio State University, Columbus, OH, ²Purdue University, West Lafayette, IN, ³The Ohio State University, Wooster, OH.

11:30AM - 11:45AM

282. **Herbicide-resistant weeds in the United States and their impact on extension.** M. VanGessel*, B. Scott; University of Delaware, Georgetown, DE.

11:45AM - 12:00PM

283. **Using Articulate™ to Develop Distance Education Training Modules for Pesticide Certification.** J. Ferrell*, F. Fishel; University of Florida, Gainesville, FL.

THURSDAY PM, February 7 **Charting the Course for Weed Genomics**

Location: Waldorf Room

Chair: P. Tranel*; University of Illinois, Urbana, IL
1:00PM - 1:30PM

247. **Genomics meets weed science: How molecular knowledge can advance weed management.** C. A. Mallory-Smith*, A. Perez-Jones, E. Sanchez; Oregon State Univ., Corvallis, OR.

1:30PM – 1:45PM

284. **Obtaining funding for weed genomics research: an insider's perspective.** M. A. Bowers*; Cooperative State Research, Education & Extension Service-USDA, Washington, DC.

1:45PM - 5:00PM

Discussion

THURSDAY PM, February 7 **Section 13. Integrated Weed Management**

Location: Williford A

Chair: D. Jordan*; NC State University, Raleigh, NC.

1:00PM - 1:15PM

285. **Farmers Training On Weed Management In Developing Countries.** R. E. Labrada Romero*; Plant Production & Protection, FAO, UN, Rome, Italy.

1:15PM - 1:30PM

286. **The Risk Posed by The Spread of African Tulip Tree (*Spathodea campanulata*) in Central America and the Caribbean.** R. E. Labrada Romero*; Plant Production & Protection, FAO, UN, Rome, Italy.

1:30PM - 1:45PM

287. **The effect of tillage timing on emergence of various weed species.** A. Mousavi Nik*, H. Rahimian Mashhadi, A. Jodakhanloo; Agronomy, Tehran univ. Iran, Karaj, Iran (Islamic Republic of).

1:45PM - 2:00PM

288. **Investigating barley (*Hordeum vulgare* L.) competitiveness with weeds: an analysis of phenotypic variation and the critical period of weed control.** D. A. Van Dam*, C. J. Swanton; Plant Agriculture, University of Guelph, Guelph, ON, Canada.

2:00PM - 2:15PM

289. **Influence of winter annual weed removal timings on soybean cyst nematode population densities.** V. A. Mock*,¹ J. E. Creech,² W. G. Johnson¹; ¹Botany and Plant Pathology, Purdue University, West Lafayette, IN, ²University of Nevada, Fallon, NV.

2:15PM - 2:30PM

290. **Purple Deadnettle (*Lamium purpureum*) and Soybean Cyst Nematode (*Heterodera glycines*) Response to Cold Temperature Regimes.** J. E. Creech*,¹ V. A. Mock,² W. G. Johnson²; ¹University of Nevada Cooperative Extension, Fallon, NV, ²Purdue University, West Lafayette, IN.

2:30PM - 2:45PM

291. **An evaluation of a low-cost UAV approach to noxious weed mapping.** B. T. Jones*, M. Jackson; Geography, Brigham Young University, Provo, UT.

2:45PM - 3:00PM

292. **Accuracy of weed maps obtained by kriging.** L. Longchamps*,¹ B. Panneton,² M. Brouillard,² G. D. Leroux¹; ¹Phytology, Laval University, Quebec, QC, Canada, ²CRDH, Agriculture and AgriFood Canada, St-Jean-sur-Richelieu, QC, Canada.

3:00PM - 3:30PM

Break

3:30PM - 3:45PM

293. **Fate of weed seedbank pools during the transition to an organic feed grain crop rotation in Pennsylvania.** A. G. Hulting*,¹ D. A. Mortensen,² M. Barbercheck³; ¹Crop and Soil Science, Oregon State University, Corvallis, OR, ²Crop and Soil Science, The Pennsylvania State University, University Park, PA, ³Entomology, The Pennsylvania State University, University Park, PA.

3:45PM - 4:00PM

294. **Optimal agronomic practices substantially augment wild oat (*Avena fatua*) management.** K. Harker*,¹ J. O'Donovan,¹ K. Turkington,¹ B. Irvine,² G. Clayton³; ¹Agriculture & Agri-Food Canada, Lacombe, AB, Canada, ²Agriculture & Agri-Food Canada, Brandon, MB, Canada, ³Agriculture & Agri-Food Canada, Lethbridge, AB, Canada.

4:00PM - 4:15PM

295. **Weed impact on corn and soybean yield in long-term organic and conventional cropping systems.** J. R. Teasdale*, M. A. Cavigelli; Sustainable Agricultural Systems Lab, USDA-ARS, Beltsville, MD.

4:15PM - 4:30PM

296. **Weed Management in Peanut with Combinations of Cultivar, Row Pattern, and Herbicide Input.** G. Place, D. Jordan*, C. Rheberg-Horton; Crop Science, NC State University, Raleigh, NC.

4:30PM - 4:45PM

Business Meeting

THURSDAY PM, February 7 Section 7. Teaching and Extension

Location: Williford B

Chair: E. P. Prostko*; Department of Crop & Soil Sciences, The University of Georgia, Tifton, GA.

1:00PM - 1:15PM

297. **Herbicide Trade Names: Can'm and Confuse'm.** T. C. Mueller*,¹ L. E. Steckel,² M. McGlamery³; ¹University of Tennessee, Knoxville, TN, ²University of Tennessee, Jackson, TN, ³University of Illinois, Retired, Urbana, IL.

1:15PM - 1:30PM

298. **Weed Management Practices Utilized by Top Peanut Producers in Georgia (2005–2006).** E. P. Prostko*, J. P. Beasley; Department of Crop & Soil Sciences, The University of Georgia, Tifton, GA.

1:30PM - 1:45PM

299. **Assessing the long-term viability of Roundup Ready[®] cropping systems.** S. C. Weller*,¹ W. G. Johnson,² G. R. Kruger,² M. D. Owen,³ D. R. Shaw,⁴ J. W. Wilcut,⁵ D. L. Jordan,⁵ R. G. Wilson,⁶ B. G. Young⁷; ¹Horticulture & Landscape Architecture, Purdue University, West Lafayette, IN, ²Botany and Plant Pathology, Purdue University, West Lafayette, IN, ³Iowa State Univ., Ames, IA, ⁴Mississippi State Univ., Mississippi State, MS, ⁵North Carolina State Univ., Raleigh, NC, ⁶Univ. of Nebraska, Scottsbluff, NE, ⁷Southern Illinois Univ., Carbondale, IL.

1:45PM - 2:00PM

300. **Assessing long-term viability of glyphosate-resistant technology as a foundation for cropping systems - on-farm comparisons of weed management efficacy.** R. G. Wilson*,¹ W. G. Johnson,² S. C. Weller,² M. D. Owen,³ D. R. Shaw,⁴ J. W. Wilcut,⁵ D. L. Jordan,⁵ B. G. Young⁶; ¹Dept.

Agronomy & Horticulture, Univ. of Nebraska, Scottsbluff, NE, ²Purdue Univ., West Lafayette, IN, ³Iowa State Univ., Ames, IA, ⁴Mississippi State Univ., Mississippi State, MS, ⁵North Carolina State Univ., Raleigh, NC, ⁶Southern Illinois Univ., Carbondale, IL.

2:00PM - 2:15PM

301. Assessing Long-Term Viability of Glyphosate-Resistant Technology as a Foundation for Cropping Systems - On-Farm Economic Comparisons of Management Systems. J. W. Weirich*,¹ D. R. Shaw,¹ W. A. Givens,¹ J. A. Huff,¹ W. J. Everman,² D. L. Jordan,² W. G. Johnson,³ S. C. Weller,³ M. K. Owen,⁴ R. G. Wilson,⁵ B. G. Young⁶; ¹Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, ²Plant and Soil Sciences, North Carolina State University, Raleigh, NC, ³Plant and Soil Sciences, Purdue, West Lafayette, IN, ⁴Plant and Soil Sciences, Iowa State University, Ames, IA, ⁵Plant and Soil Sciences, University of Nebraska, Scottsbluff, NE, ⁶Plant and Soil Sciences, Southern Illinois University, Carbondale, IL.

2:15PM - 2:30PM

302. U.S. grower perspectives on glyphosate resistance management and alternative weed management practices. W. G. Johnson*,¹ S. C. Weller,² G. R. Kruger,¹ M. D. Owen,³ D. R. Shaw,⁴ J. W. Wilcut,⁵ D. L. Jordan,⁵ R. G. Wilson,⁶ B. G. Young⁷; ¹Botany and Plant Pathology, Purdue Univ., West Lafayette, IN, ²Purdue Univ., West Lafayette, IN, ³Iowa State Univ., Ames, IA, ⁴Mississippi State Univ., Mississippi State, MS, ⁵North Carolina State Univ., Raleigh, NC, ⁶Univ. of Nebraska, Scottsbluff, NE, ⁷Southern Illinois Univ., Carbondale, IL.

2:30PM - 12:45PM

303. Problematic weeds: perception versus reality for U. S. growers. G. R. Kruger*,¹ W. G. Johnson,¹ S. C. Weller,² M. D. Owen,³ D. R. Shaw,⁴ J. W. Wilcut,⁵ D. L. Jordan,⁵ R. G. Wilson,⁶ B. G. Young⁷; ¹Botany and Plant Pathology, Purdue Univ., West Lafayette, IN, ²Purdue Univ., West Lafayette, IN, ³Iowa State Univ., Ames, IA, ⁴Mississippi State Univ., Mississippi State, MS, ⁵North Carolina State Univ., Raleigh, NC, ⁶Univ. of Nebraska, Scottsbluff, NE, ⁷Southern Illinois Univ., Carbondale, IL.

2:45PM - 3:00PM

304. University Versus Grower Weed Management Input Impacts on Weed Species Density and Diversity in Southern Cropping Systems. W. J. Everman*,¹ S. B. Clewis,¹ D. L. Jordan,¹ J. W. Wilcut,¹ W. G. Johnson,² S. C. Weller,² M. D. Owen,³ D. R. Shaw,⁴ R. G. Wilson,⁵ B. G. Young⁶; ¹Crop Science, North Carolina State University, Raleigh, NC, ²Purdue University, West Lafayette, IN, ³Iowa State University, Ames, IA, ⁴Mississippi State University, Stark-

ville, MS, ⁵University of Nebraska, Scottsbluff, NE, ⁶Southern Illinois University, Carbondale, IL.

3:00PM - 3:30PM

Break.

3:30PM - 3:45PM

305. Diversity of weed management strategies implemented by growers in three glyphosate-resistant cropping systems. B. G. Young*,¹ J. L. Matthews,¹ R. G. Wilson,² M. D. Owen,³ D. R. Shaw,⁴ J. W. Wilcut,⁵ D. L. Jordan,⁵ S. C. Weller,⁶ W. G. Johnson⁶; ¹Southern Illinois University, Carbondale, IL, ²University of Nebraska, Scottsbluff, NE, ³Iowa State University, Ames, IA, ⁴Mississippi State University, Mississippi State, MS, ⁵North Carolina State University, Raleigh, NC, ⁶Purdue University, West Lafayette, IN.

3:45PM - 4:00PM

306. How did weed species known to be confirmed glyphosate-resistant respond to various cropping systems? M. D. Owen*,¹ W. G. Johnson,² S. C. Weller,² D. R. Shaw,³ J. W. Wilcut,⁴ D. L. Jordan,⁴ B. G. Young,⁵ R. G. Wilson,⁶ D. J. Gibson,⁵ K. L. Gage⁵; ¹Agronomy Department, Iowa State University, Ames, IA, ²Purdue University, West Lafayette, IN, ³Mississippi State University, Mississippi State, MS, ⁴North Carolina State University, Raleigh, NC, ⁵Southern Illinois University, Carbondale, IL, ⁶University of Nebraska, Scottsbluff, NE.

4:00PM - 4:15PM

307. Ecological response of weed communities to glyphosate-resistant cropping systems. K. L. Gage*,¹ D. J. Gibson,¹ J. L. Matthews,² B. G. Young,² M. D. Owen,³ R. G. Wilson,⁴ S. C. Weller,⁵ W. G. Johnson,⁵ D. R. Shaw,⁶ D. L. Jordan⁷; ¹Plant Biology, Southern Illinois University, Carbondale, IL, ²Plant, Soil and Agricultural Systems, Southern Illinois University, Carbondale, IL, ³Iowa State University, Ames, IA, ⁴University of Nebraska, Scottsbluff, NE, ⁵Purdue University, West Lafayette, IN, ⁶Mississippi State University, Mississippi State, MS, ⁷North Carolina State University, Raleigh, NC.

4:15PM - 4:30PM

308. Assessing the sustainability of glyphosate-resistant cropping systems using an alternative approach. A. M. Westhoven*, V. M. Davis, G. R. Kruger, V. A. Mock, W. G. Johnson; Botany and Plant Pathology, Purdue University, West Lafayette, IN.

4:30PM - 4:45PM

309. Low glyphosate rates rapidly lead to evolution of glyphosate resistance in ryegrass (*Lolium rigidum*). R. Busi, S. Powles*; University Western Australia, Crawley, Australia.

4:45PM - 5:00PM

Business Meeting.

THURSDAY PM, February 7
Vegetable Roundtable Discussion

Location: Marquette Room

Co-Chair: F. P. Salzman*; IR-4 Project, Princeton, NJ.

Co-Chair: R. W. Wallace*; Horticultural Sciences, Texas A
& M University, Lubbock, TX.

1:00PM - 4:00PM