
Ramon G. Leon

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EDUCATION

- **Ph.D.** Iowa State University *Crop Production and Physiology, specializations in Seed Science and Weed Science.* 2005
- **Ph.D.** Iowa State University *Genetics.* 2005
- **M.Sc.** Iowa State University *Crop Production and Physiology, specialization in Seed Science and Weed Science.* 2003
- **B.S.** University of Costa Rica *Agronomy.* 2000

ACADEMIC AND PROFESSIONAL EXPERIENCE

- **Associate Professor (with tenure)**, Weed Biology and Ecology, Department of Crop and Soil Sciences, North Carolina State University. 2020-present
- **Assistant Professor**, Weed Biology and Ecology, Department of Crop and Soil Sciences, North Carolina State University. 2017-2020
- **Associate Professor (with tenure)**, Weed Science, West Florida Research and Education Center, Agronomy Department, University of Florida. 2017
- **Assistant Professor**, Weed Science, West Florida Research and Education Center, Agronomy Department, University of Florida. 2012-2017
- **Professor**, Crop Protection, EARTH University. 2007-2012
- **Researcher**, EARTH University Foundation. 2009-2012
- **Assistant Professor**, Horticulture and Crop Science Department, California Polytechnic State University. 2005-2007
- **Graduate Research Assistant**, Iowa State University. 2000-2005
- **Research Assistant**, University of Costa Rica. 1998-2000
- **Teaching Assistant**, University of Costa Rica. 1996-1999

POST-GRADUATE TRAINING

- Beahrs Environmental Leadership Program. Summer Course. University of California, Berkeley. 2009
- "Learning Dimensions", course for college instructors. Duration: 10 weeks. California Polytechnic State University. 2006
- "Maintaining Instructor Effectiveness", course for college instructors. Duration: 10 weeks. California Polytechnic State University. 2005

SYNERGISTIC ACTIVITIES

- **Associate Editor**, Weed Research. 2018-present
- **Associate Editor**, Weed Science. 2017-present
- **Associate Editor**, Peanut Science. 2017-present

- **Associate Editor**, Weed Technology. 2012-2017
- **Editorial Board**, Agronomy. 2018-present
- **Member**, Pre-Doctoral and Post-Doctoral Fellowship Panel, NIFA, USDA. 2015-2016
- **Member**, Unit for Carbon Neutrality, EARTH University. 2011-2012
- **Member**, Organizing Committee International Conference on Biofuel Crop Production and Development. 2008-2011
- **Coordinator**, National Commission for Coordination and Regulation of Pineapple Production and Processing, Government of Costa Rica. 2008-2009
- **Member**, Biology of Weedy and Invasive Species in Agroecosystems Panel, National Research Initiative (NRI), USDA. 2007
- **Director of International Programs**, Sustainable Agriculture Resources Consortium, California Polytechnic State University. 2006-2007
- **Co-Coordinator**, Specialty Crops and Alternative Weed Control Systems Panel, California Weed Science Society Meeting, 2006-2007
- **Member**, University of California Weed Working Group. 2005-2007
- **Reviewer**, Agronomía Costarricense, Agronomy Journal, Applied Turfgrass Science, Biological Journal of the Linnean Society, Crop Management, Crop Science, Ecological Engineering, HortScience, HortTechnology, International Journal of Plant Physiology and Biochemistry, Journal of Testing and Evaluation, Journal of Zhejiang University SCIENCE (JZUS), Peanut Science, PLoS ONE, Weed Research, Weed Science, Weed Technology.

PROFESSIONAL AND SCIENTIFIC ORGANIZATIONS

- American Association for the Advancement of Science. 2014-present
- American Peanut Research and Education Society. 2014-present
 - Technical Program Chair (2016)
- Florida Weed Science Society. 2013-2017
 - Past President (2016)
 - President (2015)
 - Vice-President (2014)
 - Board of Directors (2013-2014)
- Southern Weed Science Society. 2012-present
 - Weed Resistance and Technology Stewardship Committee (2013-present)
 - Outstanding Young Weed Scientist Award Subcommittee (2018-present)
 - Research Committee (2015-present)
 - Chair Turfgrass Section (2014-2016)
 - Weed Survey Committee (2013-2020)
- Weed Science Society of North Carolina. 2017-present
 - Director-at-Large (2018-present)
- American Society of Agronomy. 2012-present
- Crop Science Society of America. 2012-present
- International Weed Science Society. 2003-present
- Weed Science Society of America. 2001-present
 - Weed Science Editorial Board (2017-present)
 - Chair Research Award Committee (2017-2020)
 - Member E6 Research Priorities Committee (2020-present)
 - Member E-12a Herbicide Resistant Plants Committee (2017-present)
 - Member E-12b Herbicide Resistance Education Committee (2014-present)
 - Coordinator WSSA Herbicide Resistance Portal Development sub-committee (2017-2020)
 - Member WSSA Herbicide Resistance Portal Development sub-committee (2015-2020)
 - Member W3e Outstanding Paper in Weed Science Committee (2020-present)

- Chair Integrated Weed Management Section (2016-2017)
- Chair Turfgrass and Ornamental Section (2014)
- Coordinator Herbicide Resistance Training Modules for Turfgrass (2013-2014)
- Colegio de Ingenieros Agrónomos de Costa Rica. 2008-2012
- California Weed Science Society. 2006-2007
- American Society of Plant Biologists. 2003-2005
- North Central Weed Science Society. 2000-2005

HONORS AND AWARDS

- Outstanding Young Weed Scientist Award, Southern Weed Science Society. 2018
- Outstanding Weed Scientist Award, Florida Weed Science Society. 2017
- Outstanding Reviewer Award, Weed Science Society of America. 2013
- Research Excellence Award, Iowa State University. 2005
- 2nd Place Graduate Student Poster Contest, category “Weed Ecology and Biology”. North Central Weed Science Society. 2003
- 1st Place Graduate Student Poster Contest, category “Weed Ecology and Biology”. North Central Weed Science Society. 2002
- David Staniforth Fellowship for Weed Science Graduate Students. 2002
- Elected as Fellow of the Plant Sciences Institute at Iowa State University. 2002
- Elected as Member of the Honor Society of Agriculture Gamma Sigma Delta. 2002
- Best student in Agronomy with emphasis in Crop Production at the University of Costa Rica. 1998

FUNDING

- Funded projects as principal investigator (PI) or co-PI totaled > \$28.8 million
- Direct funding received > \$2.7 million:

REFEREED PUBLICATIONS

Published or accepted:

101. Gettys LA, **Leon RG** (2021) A populations genetics approach for the study of fluridone resistance in hydrilla. **Aquatic Invasions** *In press*
100. Bagavathiannan M, Van Acker R, Gonzalez-Andujar JL, Chantre G., **Leon RG**, Beckie H, Poggio S, Werle R, Somerville G, Neve P, Schutte B (2020) Simulation models in weed ecology and management: learning and practical outcomes. **Agronomy** 10:1611, doi:10.3390/agronomy10101611
99. Mahoney DJ, Jordan DL, Burgos NR, Jennings KM, **Leon RG**, Vann MC, Everman WJ, Cahoon CW (2020) Susceptibility of Palmer amaranth (*Amaranthus palmeri*) to herbicides in accessions collected from the North Carolina Coastal Planes. **Weed Science** *In press*
98. Reinhardt Piskackova TA, Reberg-Horton C, Richardson RJ, Jennings KM, **Leon RG** (2020) Integrating emergence and phenology models to determine windows of action for weed control: a case study using *Senna obtusifolia*. **Field Crops Research** *Accepted*
97. Reinhardt Piskackova TA, Reberg-Horton C, Richardson RJ, Jennings KM, **Leon RG** (2020) Incorporating environmental factors to describe *Raphanus raphanistrum* L. seedling emergence and plant phenology. **Weed Science** *Accepted*
96. Martin LJ, Sellers BA, Dias J LCS, Ferrell JA, Vendramini JMB, **Leon RG** (2020) Tolerance of rhizoma perennial peanut (*Arachis glabrata*) to glyphosate and triclopyr. **Weed Technology** *Accepted*

95. Mahoney DJ, Jordan DL, Hare AT, Burgos NR, Jennings KM, **Leon RG**, Vann MC, Everman WJ, Cahoon CW (2020) The influence of soybean population and postemergence herbicide application timing on in- and subsequent-season weed control and economic returns. **Weed Technology Accepted**
94. Martin LJ, Sellers BA, Dias JLCS, Ferrell JA, Vendramini JMB, **Leon RG** (2020) Tolerance of pinto peanut (*Arachis pinto*) to pre- and post-emergence herbicides. **Weed Technology Accepted**
93. Reyes-Cabrera J, Erickson JE, **Leon RG**, de Quadros DG, Silveira ML, Sollenberger LE (2020) Bahiagrass pasture and elephantgrass bioenergy cropping systems differ in root traits. **Agronomy Journal** doi: 10.1002/agj2.20382
92. **Leon R** (2020) Of *Amaranthus palmeri* and other demons. A review. **ITEA** (Spain) 116:241-255
91. Torra J, Royo-Esnal A, Romano Y, Osuna MD, **Leon RG**, Recasens J (2020) *Amaranthus palmeri* a new invasive weed in Spain with herbicide resistant biotypes. **Agronomy** 10:00993
<https://doi.org/10.3390/agronomy10070993>
90. **Leon RG**, Dunne JC, Gould F (2020) The role of population and quantitative genetics in modern sequencing technologies evolved herbicide resistance and weed fitness. **Pest Management Science**
<https://doi.org/10.1002/ps.5988>
89. Shergill LS, Schwartz-Lazaro LM, **Leon R**, Ackroyd VJ, Flessner M, Bagavathiannan M, Everman W, Norsworthy JK, VanGessel MJ, Mirsky SB (2020) Current outlook and future research needs for harvest weed seed control in North American cropping systems. **Pest Management Science** 76:3887-3895
<https://doi.org/10.1002/ps.5986>
88. Moore LD, Jennings KM, Monks DW, Boyette MD, Jordan DL, **Leon RG** (2020) Herbicide systems including linuron for Palmer amaranth (*Amaranthus palmeri*) control in sweetpotato. **Weed Technology**
<https://doi.org/10.1017/wet.2020.63>
87. Silveira ML, Brandani C, Kohmann MM, Erickson J, Reyes-Cabrera J, **Leon RG**, Sollenberger LE, Piotta V, Quadros D, Mellos S QS (2020) Short-term effects of bioenergy cropping on soil C and N dynamics in a Florida Ultisol. **Soil Science Society of America Journal** 84:1233-1246
86. Hare AT, Jordan DL, Edmisten KL, **Leon RG**, Post AR, Vann R, Dumphy EJ, Heiniger R, Collins R, Washburn D (2020) Response of agronomic crops to planting date and double cropping with wheat. **Agronomy Journal** 112:1972-1980
85. Hare AT, Jordan DL, **Leon RG**, Edmisten KL, Post AR, Cahoon CW, Everman WJ, Mahoney DJ, Inman MD (2020) Influence of timing and intensity of weed management on crop yield and contribution to weed emergence in cotton the following year. **Crop, Forage and Turfgrass Management** 6:e220021
<https://doi.org/10.1002/cft2.20021>
84. Kumar S, Seepaul R, Mulvaney MJ, Colvin B, George S, Marois JJ, Bennett R, **Leon R**, Wright DL, Small IM (2020) *Brassica carinata* genotypes demonstrate potential as a winter biofuel crop in South East United State. **Industrial Crops and Products** 150: <https://doi.org/10.1016/j.indcrop.2020.112353>
83. Jani A, Mulvaney M, Erickson J, **Leon R**, Wood CW, Rowland D, Enloe HA (2020) Peanut nitrogen credits to winter wheat are negligible under conservation tillage management in the southeastern USA. **Field Crops Research** 249: <https://doi.org/10.1016/j.fcr.2020.107739>
82. Reinhardt Piskackova TA, Reberg-Horton C, Richardson RJ, Jennings KM, Austin R, **Leon RG** (2020) Creating predictive weed emergence models using repeat photography and image analysis. **Plants** 9:635
doi:10.3390/plants9050635
81. Hunter JE III, Gannon TW, Richardson RJ, Yelverton FH, **Leon RG** (2020) Coverage and drift potential associated with nozzle and speed selection for herbicide applications using an unmanned aerial sprayer. **Weed Technology** 34:235-240
80. Hunter JE III, Gannon TW, Richardson RJ, Yelverton FH, **Leon RG** (2020) Integration of remote weed-mapping and an autonomous spraying unmanned aerial vehicle for site-specific weed management. **Pest Management Science** 76:1386-1392

79. Hare AT, Jordan DL, **Leon RG**, Edmisten KL, Post AR, Mahoney DJ, Washburn D (2019) Impact of weed management on peanut yield and weed populations the following year. **Peanut Science** 46:182-190
78. Mahoney DJ, Jordan DL, Hare AT, **Leon RG**, Vann MC, Burgos NR, Jennings KM (2019) The influence of postemergence herbicide timing and frequency on weed control and soybean yield. **Crop, Forage and Turfgrass Management** 5:190036. doi:10.2134/cftm2019.05.0036
77. Mahoney DJ, Jordan DL, Hare AT, **Leon RG**, Vann MC, Burgos NR, Jennings KM (2019) The effect of nozzle selection and carrier volume on weed control in soybean in North Carolina. **Crop, Forage and Turfgrass Management** 5:190017. doi:10.2134/cftm2019.05.0037
76. Price K, Li X, **Leon RG**, Price A (2019) Cotton response to preplant applications of 2,4-D and dicamba. **Weed Technology** 34:96-100
75. Pierre AK, Mulvaney MJ, Rowland DL, Tillman B, Grey T, Iboyi JE, **Leon RG**, Perondi D, Wood CW (2019) Foliar fertilization as a strategy to increase the proportion of mature pods in peanut (*Arachis hypogaea* L.). **Peanut Science** 46:140-147
74. Reyes-Cabrera J, Erickson JE, **Leon RG**, Silveira ML, Sollenberger LE (2019) Amending marginal sandy soils with biochar and lignocellulosic fermentation residual sustains fertility in elephantgrass bioenergy cropping systems. **Nutrient Cycling in Agroecosystems** 155:69-83
73. Liu W, Kenworthy KE, MacDonald GE, Unruh JB, Trenholm LE, **Leon RG** (2019) Transgressive segregation and maternal genetic effects of non-target site fluzifop-P-butyl tolerance in *Zoysia* spp. **Weed Science** 67:504-509
72. Liu W, Unruh BJ, Kenworthy KE, MacDonald GE, Trenholm LE, **Leon RG** (2019) Application timing affects tolerance of zoysiagrass to fluzifop-P-butyl and safening effect of triclopyr. **Crop Science** 59:1789-1798
71. Jones EAL, Owen MDK, **Leon RG** (2019) Influence of multiple herbicide resistance on growth in *Amaranthus tuberculatus*. **Weed Research** 59:235-244
70. Liu W, MacDonald GE, Unruh JB, Kenworthy KE, Trenholm LE, **Leon RG** (2019) Variation in tolerance mechanisms to fluzifop-P-butyl among selected zoysiagrass lines. **Weed Science** 67:288-295
69. Mulvaney MJ, **Leon RG**, Seepaul R, Wright DL, Hoffman TL (2019) *Brassica carinata* seeding rate and row spacing effects on morphological, yield and oil quality. **Agronomy Journal** 111:528-535
68. **Leon RG**, Odero DC (2019) Weed Management in Sugarcane. In Weed control: Sustainability, hazards and cropping systems worldwide. Korres NE, Burgos NR, Duke SO (eds). First edition. CRC Press/Taylor & Francis Group. Pp. 455-469
67. **Leon RG**, Jordan DL, Bolfrey-Arku G, Dzomeku I (2019) Sustainable Weed Management in Peanut. In Weed control: Sustainability, hazards and cropping systems worldwide. Korres NE, Burgos NR, Duke SO (eds). First edition. CRC Press/Taylor & Francis Group. Pp. 345-366
66. Jani AD, Mulvaney MJ, Enloe HA, Erickson JE, **Leon RG**, Rowland DL, Wood CW (2019) Peanut residue distribution gradients and tillage practices determine patterns of nitrogen mineralization. **Nutrient Cycling in Agroecosystems** 113:63-76
65. Jani AD, Mulvaney MJ, **Leon RG**, Rowland DL, Erickson JE, Wood CW (2018) Conventional harvest index methods may overestimate biomass and nutrient removal from abscising crop species. **Communications in Soil Science and Plant Analysis** 49:2889-2893
64. Reinhardt T, **Leon RG** (2018) Extractable and germinable seed bank methods provide different quantifications of weed communities. **Weed Science** 66:715-720
63. **Leon RG**, van der Laat R (2018) Herbicidal and seed dormancy induction activity of fermentation residual vinasse. **Weed Science** 66:317-323
62. Schroeder J, Barrett M, Shaw D, Asmus A,... **Leon R**, Morichita D, Schutte B, Sprague C, Stahlman P, Steckel L, VanGessel M (2018) Managing herbicide resistance: Listening to the perspective of practitioners.

- Procedures for conducting listening sessions and an evaluation of the process. **Weed Technology** 32:489-497
61. Schroeder J, Barrett M, Shaw D, Asmus A,... **Leon RG**, Morichita D, Schutte B, Sprague C, Stahlman P, Steckel L, VanGessel M (2018) Managing wicked herbicide-resistance: Lessons from the field. **Weed Technology** 32:475-488
 60. Pearsaul DG, **Leon RG**, Sellers BA, Silveira ML, Otero DC (2018) Evaluation of verticutting and herbicides for tropical signalgrass (*Urochloa subquadriflora*) control in turf. **Weed Technology** 32:392-397
 59. **Leon RG**, Wright DL (2018) Recurrent changes of weed seed bank density and diversity in crop–livestock systems. **Agronomy Journal** 110:1069-1078
 58. Bravo W, **Leon RG**, Ferrell JA, Mulvaney MJ, Wood CW (2018) Evolutionary adaptations of Palmer amaranth (*Amaranthus palmeri*) to nitrogen fertilization and crop rotation history affect morphology and nutrient use efficiency. **Weed Science** 66:180-189
 57. **Leon RG**, Ferrell JA, Mulvaney MJ (2017) Carinata (*Brassica carinata*) tolerance to preemergence and postemergence herbicides. **Weed Technology** 31:877-882
 56. Reyes-Cabrera J, **Leon RG**, Erickson JE, Rowland DL, Silveira ML, Morgan KT (2017) Differences in biomass and water dynamics between a cotton-peanut rotation and a sweet sorghum bioenergy crop with and without biochar and vinasse as soil amendments. **Field Crops Research** 214:123-130
 55. Sperry BP, Ferrell JA, **Leon RG**, Rowland DL, Mulvaney MJ, Dias JLCS (2017) Sesame tolerance to preplant applications of 2,4-D and dicamba. **Weed Technology** 31:590-598
 54. Yarborough JK, Vendramini JMB, Silveira ML, Sollenberger LE, **Leon RG**, Sellers B, Sanchez JMD, Leite de Oliveira F, Kuhawara F, Gomes V, Cecato U, Soares Filho CV (2017) Potassium and nitrogen fertilization effects on Jiggs bermudagrass herbage accumulation, root-rhizome mass, and tissue nutrient concentration. **Crop, Forage and Turfgrass Management** doi: 10.2134/cftm2017.04.0029
 53. Reyes-Cabrera, J, Erickson JE, **Leon RG**, Silveira ML, Rowland DL, Sollenberger LE, Morgan KT (2017) Converting bahiagrass pasture land to elephantgrass bioenergy production enhances biomass yield and water quality. **Agriculture Ecosystems and Environment** 248:20-28
 52. Bravo W, **Leon RG**, Ferrell JA, Mulvaney MJ, Wood, CW (2017) Differentiation of life-history traits among Palmer amaranth populations (*Amaranthus palmeri*) and its relation to cropping systems and glyphosate sensitivity. **Weed Science** 65:339-349
 51. Yarborough JK, Vendramini JMB, Silveira ML, Sollenberger LE, **Leon RG**, Sanchez JMD, Leite de Oliveira F, Kuhawara F, Gomes V, Cecato U, Soares Filho V (2017) Impact of potassium and nitrogen fertilization on bahiagrass herbage accumulation and nutrient concentration. **Agronomy Journal** 109:1099-1105
 50. Reyes-Cabrera J, **Leon RG**, Erickson JE, Silveira ML, Rowland DL, Morgan KT (2017) Biochar changes root growth and root distribution of soybean during early vegetative stages. **Crop Science** 57:454-461
 49. Sperry BP, Ferrell JA, Smith HC, Fernandez VJ, **Leon RG**, Smith CA (2017) Effect of sequential applications of protoporphyrinogen oxidase (PPO) inhibiting herbicides on Palmer amaranth (*Amaranthus palmeri*) in peanut (*Arachis hypogaea*). **Weed Technology** 31:46-52
 48. **Leon RG**, Agüero R, Calderón D (2017) Diversity and spatial heterogeneity of weed communities in a sugarcane cropping system in the dry tropics of Costa Rica. **Weed Science** 65:128-140
 47. Della Torre CJ III, Gettys LA, Haller WT, Ferrell JA, **Leon R** (2017) Efficacy of aquatic herbicides on rotala (*Rotala rotundifolia*). **Journal of Aquatic Plant Management** 55:13-18
 46. Sperry BP, Ferrell JA, **Leon RG**, Rowland DL, Mulvaney MJ (2016) Influence of planting depth and application timing on S-metolachlor injury in sesame (*Sesamum indicum* L.). **Weed Technology** 30:958-964
 45. **Leon RG**, Mulvaney MJ, Tillman BL (2016) Peanut cultivars differing in growth habit and canopy architecture respond similarly to weed interference. **Peanut Science** 43:133-140
 44. Fennimore SA, Slaughter DC, Siemens MC, **Leon RG**, Saber MN (2016) Technology for automation weed control in specialty crops. **Weed Technology** 30:823-37

43. Abe DG, Sellers BA, Ferrell JA, **Leon RG**, Odero DC (2016) Bahiagrass tolerance to aminocyclopyrachlor in Florida. **Weed Technology** 30:943-948
42. Abe DG, Sellers BA, Ferrell JA, **Leon RG**, Odero DC (2016) Tolerance of bermudagrass and stargrass to aminocyclopyrachlor. **Weed Technology** 30:499-505
41. **Leon RG**, Unruh JB, Brecke BJ (2016) Relative lateral movement in surface soil of amicarbazone and indaziflam compared to other preemergence herbicide for turfgrass. **Weed Technology** 30:229-237
40. **Leon RG**, Ferrell JA, Sellers BA (2016) Seed production and control of sicklepod (*Senna obtusifolia*) and pitted morningglory (*Ipomoea lacunosa*) with 2,4-D, dicamba, and glyphosate combinations. **Weed Technology** 30:76-84
39. Abe DG, Sellers BA, Ferrell JA, **Leon RG**, Odero DC (2016) Weed control in Florida pastures using aminocyclopyrachlor. **Weed Technology** 30:271-278
38. **Leon RG**, Wright DL, Marois JJ (2015) Weed seed banks are more dynamic in a sod-based than a conventional peanut-cotton rotation. **Weed Science** 63:877-887
37. van der Laat R, Owen MDK, Liebman M, **Leon RG** (2015) Post-dispersal weed seed predation and invertebrate activity-density in three tillage regimes. **Weed Science** 63:828-838
36. Berger ST, Ferrell JA, Dittmar PJ, **Leon R** (2015) Survey of glyphosate- and imazapic-resistant Palmer amaranth (*Amaranthus palmeri*) in Florida. **Crop, Forage & Turfgrass Management** DOI:10.2134/cftm2015.0122
35. Soni N, **Leon RG**, Erickson JE, Ferrell JA, Silveira ML (2015) Biochar decreases atrazine and pendimethalin preemergence herbicidal activity. **Weed Technology** 29:359-366
34. **Leon RG**, Izquierdo J, González-Andújar JL (2015) Characterization and modelling of itchgrass (*Rottboellia cochinchinensis*) biphasic seedling emergence patterns in the tropics. **Weed Science** 63:623-630
33. **Leon RG**, Tillman BL (2015) Postemergence herbicide tolerance variation in peanut germplasm. **Weed Science** 63:546-554
32. **Leon RG**, Gilbert RA, Comstock JC (2015) Energycane (*Saccharum* spp. × *S. spontaneum*) biomass production, reproduction and weed risk assessment scoring in the humid tropics and subtropics. **Agronomy Journal** 107:323-329
31. Soni N, **Leon RG**, Erickson JE, Ferrell JA, Silveira ML, Giurcanu MC (2014) Vinasse and biochar effects on germination and growth of Palmer amaranth (*Amaranthus palmeri*), sicklepod (*Senna obtusifolia*) and southern crabgrass (*Digitaria ciliaris*). **Weed Technology** 28:694-702
30. Ferrell JA, Sellers B, **Leon R** (2014) Management of spreading pricklypear (*Opuntia humifusa*) with fluroxypyr and aminopyralid. **Weed Technology** 28:734-738
29. **Leon RG**, McCarty LB, Estes AG (2014) Amicarbazone application timing influences overseeded perennial ryegrass (*Lolium perenne*) safety and annual bluegrass (*Poa annua*) control. **Applied Turfgrass Science** DOI 10.2134/ATS-2014-0042-RS
28. **Leon RG**, Ferrell JA, Brecke BJ (2014) Impact of exposure to 2,4-D and dicamba on peanut injury and yield. **Weed Technology** 28:465-470
27. Arvai J, Kellon D, **Leon R**, Gregory R, Richardson R (2014) Structuring international development decisions: Confronting tradeoffs between land-use and community development in Costa Rica. **Environmental Systems and Decisions** 34:224-236
26. **Leon RG**, Unruh JB, Brecke BJ, Kenworthy KE (2014) Characterization of fluazifop-P-butyl tolerance in zoysiagrass cultivars. **Weed Technology** 28:385-394
25. Prostko EC, Webster TM, Marshall MW, **Leon RG**, Grey TL, Ferrell JA, Dotray PA, Jordan DL, Grichar WJ, Brecke BJ (2013) Glufosinate application timing and rate affect peanut yield response. **Peanut Science** 40:115-119
24. Ferrell JA, **Leon RG**, Sellers B, Rowland D, Brecke B (2013) Influence of lactofen and 2,4-DB combinations on peanut injury and yield. **Peanut Science** 40:62-65

23. Richardson RB, Kellon D, **Leon RG**, Arvai J (2013) Using choice experiments to understand household tradeoffs regarding pineapple production and environmental management in Costa Rica. **Journal of Environmental Management** 127:308-316
22. Murillo Castillo RG, Piedra Marin G, **Leon RG** (2013) Absorcion de nutrientes a traves de la hoja. **Uniciencia** 27:232-244
21. **Leon RG**, Kellon D (2012) Characterization of 'MD-2' pineapple planting density and fertilization using a grower survey. **HortTechnology** 22:644-650
20. Mauaie VE, **Leon R** (2012) Evaluacion fisiologica de las propiedades nutritivas del fungicida propineb en banano (*Musa* spp.) **Tierra Tropical**. 8:229-235
19. Tuñón PA, Espinoza JL, **Leon R** (2012) Evaluación de cultivares de caña energética para producción de biomasa en primera soca. **Tierra Tropical** 8:179-188
18. Sanguankeo PP, **Leon RG** (2011) Weed management practices determine plant and arthropod diversity and seed predation in vineyards. **Weed Research** 51:404-412
17. Ramos O, Vaquero R, **Leon R**, Ayuso F (2011) Efecto de tres especies de cobertura viva en el control de malezas en una plantacion de banano organico (*Musa* AAA cv Williams). **Tierra Tropical** 7:1-10
16. **Leon RG**, Gilbert RA, Korndorfer PH, Comstock JC (2010) Selection criteria and performance of energycane clones (*Saccharum* spp. × *S. spontaneum*) for biomass production under tropical and sub-tropical conditions. **CEIBA** 51:11-16
15. Morgan KT, Gilbert RA, Helsel ZA, Baucum L, **Leon R**, Perret J (2010) White paper report from working groups attending the international conference on research and educational opportunities in bio-fuel crop production. **Biomass and Bioenergy** 34:1968-1972
14. Zafra G, Condori G, **Leon R**, Ulloa O (2010) Efecto de la intensidad de la labranza sobre las características del suelo y la producción de maíz. **Tierra Tropical** 6:79-86
13. Sanguankeo PP, **Leon RG**, Malone J (2009) Impact of weed management practices on grapevine growth and yield components. **Weed Science** 57:103-107
12. Laforest S, Vedia M, **Leon R** (2009) Alternativas de control para el manejo de malezas en banano organico en establecimiento. **Tierra Tropical** 5:225-235
11. **Leon RG**, Ferreira DT (2008) Interspecific differences in weed susceptibility to steam injury. **Weed Technology** 22:719-723
10. **Leon RG**, Bassham D, Owen MDK (2007) Thermal and hormonal regulation of the dormancy-germination transition in *Amaranthus tuberculatus* seeds. **Weed Research** 47:335-344
9. **Leon RG**, Owen MDK (2006) Tillage systems and seed dormancy effects on common waterhemp (*Amaranthus tuberculatus*) seedling emergence. **Weed Science** 54:1037-1044
8. **Leon RG**, Bassham D, Owen MDK (2006) Inheritance of deep seed dormancy and stratification-mediated dormancy alleviation in *Amaranthus tuberculatus*. **Seed Science Research** 16:193-202
7. **Leon RG**, Bassham D, Owen MDK (2006) Germination and proteome analyses reveal intra-specific genetic variation in seed dormancy regulation of common waterhemp (*Amaranthus tuberculatus*). **Weed Science** 54:305-315
6. **Leon RG**, Owen MDK, Soh D, Tylka G (2005) Absence of interactive responses of early soybean (*Glycine max*) growth to soybean cyst nematode (*Heterodera glycines*), post-emergence herbicides and soil pH and texture. **Weed Technology** 19:847-854
5. **Leon RG**, Owen MKD (2004) Artificial and natural seed banks differ in seedling emergence patterns. **Weed Science** 52:531-537
4. **Leon RG**, Knapp AD, Owen MDK (2004) Effect of temperature on the germination of common waterhemp (*Amaranthus tuberculatus*), giant foxtail (*Setaria faberi*), and velvetleaf (*Abutilon theophrasti*). **Weed Science** 52:67-73

3. **Leon RG**, Owen MDK (2003) Regulation of weed seed dormancy through light and temperature interactions. **Weed Science** 51:752-758
2. **Leon R**, Aguero R (2001) Efecto de distintos tipos de labranza sobre la población de malezas en el Agroecosistema de la caña de azúcar (*Saccharum officinarum* L.). **Agronomía Mesoamericana** 12(1):71-77
1. **Leon R**, Aguero R (2001) Efecto de la profundidad del suelo sobre el establecimiento de plantas de *Rottboellia cochinchinensis* (Lour.) Clayton en el Agroecosistema de la caña de azúcar (*Saccharum officinarum* L.). **Agronomía Mesoamericana** 12(1):65-69

INVITED PRESENTATIONS

- Leon RG** (2019) Weed management in 4D: Integration of phenology, modeling, remote sensing and machine learning. Latin American Weed Science Society (ALAM) Meeting. San Jose, Costa Rica, June, 2019. **Keynote speaker**
- Leon RG** (2019) Using UAVs for herbicide applications: reducing environmental impact while increasing weed control. Latin American Weed Science Society (ALAM) Meeting. San Jose, Costa Rica, June, 2019
- Leon RG** (2019) NCSU development of UAV, remote sensing, and machine learning technologies for weed management. Environmental Protection Agency (EPA), Arlington, VA, April, 2019.
- Leon RG** (2019) Weeds and herbicide resistant crops: When optimism backfires. Genetic Engineering and Society Colloquium. North Carolina State University, Raleigh, NC. January 22, 2019
- Leon RG** (2018) Precision Agriculture: An old concept with new tools. Duke Science & Society Dialogues. Duke University, Durham, NC. February 20, 2018
- Leon RG** (2017) *(In)Action* and reaction: From production simplification to the generation of complex weed problems. Universidad de Lleida. Lleida, Spain. April 24, 2017
- Leon RG** (2017) Integrated management strategies for *Amaranthus palmeri*. Universidad de Zaragoza, Escuela Politecnica Superior de Huesca. Huesca, Spain. April 20, 2017
- Leon RG** (2015) Weed science extension in the USA-Preventing herbicide resistance: A retrospective view of a failed process. Spanish Weed Research Society Meeting, Sevilla, Spain. **Keynote speaker-opening ceremony**
- Leon RG** (2015) Physiological considerations to understand crop nutrition. EARTH University Alumni Congress. **Keynote speaker**
- Leon RG**, Shaw D, Brosnan JT, McElroy JS, Askew SD (2014) WSSA lesson modules for herbicide resistance management in turfgrass. Vancouver, Canada. Weed Sci Soc Am Abstr 54:148
- Leon RG** (2014) Herbicide resistance: Hard facts. Mississippi State University and Mississippi Turfgrass Association. November 11, 2014.
- Leon RG** (2014) Maximize your preemergence application: Preemergence herbicide placement and movement in the soil. Mississippi State University and Mississippi Turfgrass Association. November 11, 2014.
- Leon RG** (2014) What's a weed? The weird and whacky world of weed science. University of West Florida Biology Seminar Series. November 14, 2014.

ABSTRACTS

173. Iboyi JE, Mulvaney MJ, Balkcom KS, **Leon RG**, Devkota P, Small I (2020) Carinata yield is optimized at 6 kg seed ha⁻¹ regardless of tillage regime used. Agronomy Graduate Student Association IV Annual Symposium, Gainesville, FL. Apr 23, 2020

172. Mulvaney MJ, Jani AD, **Leon RG**, Erickson J, Enloe HA (2020) Nitrogen credits from peanut to wheat. Southern Branch ASA Annual Meeting. Louisville, KY. Feb. 3, 2020
171. Bashyal M, Mulvaney MJ, Lee D, **Leon RG**, Maltais-Landry G, Wilson C, Erickson J (2020) Carinata yield and physiological response to nitrogen levels. Southern Branch ASA Annual Meeting. Louisville, KY. Feb. 1, 2020
170. Iboyi JE, Mulvaney MJ, **Leon RG**, Balkcom KS, Small I, Devkota P (2020) Previous crop effects on yield of *Brassica carinata* and summer crops. Southern Branch ASA Annual Meeting. Louisville, KY. Feb. 1, 2020
169. Bashyal M, Mulvaney MJ, **Leon RG**, Maltais-Landry G, Wilson C, Erickson J (2020) Nitrogen contribution from peanut residues to *Brassica carinata*. Southern Branch ASA Annual Meeting. Louisville, KY. Feb. 2, 2020
168. Iboyi JE, Mulvaney MJ, Balkcom KS, Seepaul R, **Leon RG**, Devkota P, Small I, George S, Wright D (2020) Carinata yield is optimized at 6 kg seed per hectare rate regardless of tillage regime used. Southern Branch ASA Annual Meeting. Louisville, KY. Feb. 2, 2020
167. Tiwari, Dekvota P, Mulvaney MJ, **Leon RG**, Reinhardt T, Kharel P (2020) Summer annual weed seed banks as influenced by winter carinata production. Proc South Weed Sci Soc 73:217
166. Jones EA, Everman W, **Leon RG**, Cahoon C (2020) Surveying the use and efficacy of glufosinate in North Carolina row crops. Proc South Weed Sci Soc 73:196
165. Jones EA, Everman W, **Leon RG**, Sanders JR, Contreras DJ, Granadino MA, Fajardo MA (2020) Evaluating efficacy of dicamba and glufosinate applied alone or in combination. Proc South Weed Sci Soc 73:131
164. Tiwari, Dekvota P, Mulvaney MJ, **Leon RG**, Reinhardt T, Kharel P (2020) Influence of winter *Brassica carinata* production on summer annual weeds emergence. Proc South Weed Sci Soc 73:124
163. Ramsey SA, Locke AM, Everman W, Jordan DL, **Leon RG** (2020) Growth responses of *Amaranthus palmeri* to planting arrangements. Proc South Weed Sci Soc 73:123
162. Basinger N, Weisberger D, **Leon RG** (2020) Palmer amaranth sphere of influence effects on cotton growth and productivity. Proc South Weed Sci Soc 73:23
161. Ramsey SA, Post A, Reinhardt Piskackova TA, Camacho ME, **Leon RG** (2020) Exploring *Brassica carinata* (A.) Braun tolerance to preemergence and postemergence herbicides. Northeastern Plant Pest and Soils Conference. January, Philadelphia, PA.
160. Ramsey SA, Everman WJ, Jordan DL, Locke AM, **Leon RG** (2020) Canopy responses to homogeneous and heterogeneous planting arrangements in corn. Northeastern Plant Pest and Soils Conference. January, Philadelphia, PA.
159. Camacho ME, Gannon TW, Amoozegar A, Heitman JL, **Leon RG** (2020) Comparing the role of soil water potential and hydraulic conductivity on weed seed germination. Northeastern Plant Pest and Soils Conference. January, Philadelphia, PA.
158. Jones EA, Everman WJ, **Leon RG**, Cahoon C (2020) Assessing glufosinate use and evaluating farmer use efficacy in North Carolina soybeans. Northeastern Plant Pest and Soils Conference. January, Philadelphia, PA.
157. Hunter III J, Gannon TW, Richardson RJ, Neal J, **Leon RG** (2020) Factors determining application accuracy when using a UAV-sprayer based on previous weed mapping. Northeastern Plant Pest and Soils Conference. January, Philadelphia, PA.
156. Reinhardt Piskackova TA, Reberg-Horton C, Richardson RJ, Jennings KM, **Leon RG** (2020) The importance of day length in modeling *Raphanus raphanistrum* phenology. Northeastern Plant Pest and Soils Conference. January, Philadelphia, PA.
155. Reinhardt Piskackova TA, Reberg-Horton C, Richardson RJ, Jennings KM, Austin R, **Leon RG** (2020) Can repeat photography be used to generate weed emergence models? Northeastern Plant Pest and Soils Conference. January, Philadelphia, PA.

154. Reinhardt Piskackova TA, Reberg-Horton C, Richardson RJ, Jennings KM, **Leon RG** (2019) Using emergence and phenology models to determine minimum number of control actions. North Central Weed Science Society. December, Columbus OH.
153. Reinhardt Piskackova TA, Reberg-Horton C, Richardson RJ, Jennings KM, **Leon RG** (2019) Predicting *Amaranthus palmeri* emergence with thermal time models. North Central Weed Science Society. December, Columbus OH.
152. Tiwari R, Devkota P, Mulvaney MJ, Leon RG (2019) 2019. Winter and summer weed population dynamics on *Brassica carinata* cropping systems. ASA-CSSA-SSSA International Annual Meeting, San Antonio, TX, Nov. 10-13, 2019.
151. Tiwari R, Devkota P, Mulvaney MJ, **Leon RG** (2019) Influence of crop history and S-metolachlor (Dual Magnum) on *Brassica carinata* production. ASA-CSSA-SSSA International Annual Meeting, San Antonio, TX, Nov. 10-13, 2019.
150. Tiwari R, Devkota P, Mulvaney MJ, **Leon RG** (2019) Weed ecology and management within *Brassica carinata* cropping systems. Carinata Biomaterials Summit 2019 & 2nd SPARC Annual Meeting, North Florida Research and Education Center, Quincy, FL, March 5-7, 2019.
149. Mulvaney MJ, Jani AD, **Leon RG**, Erickson J, Enloe HA (2019) Peanut nitrogen availability to a subsequent wheat crop. ASA-CSSA-SSSA International Annual Meeting, San Antonio, TX, Nov. 10-13, 2019.
148. Bashyal M, Mulvaney MJ, Crozier C, **Leon RG**, Maltais-Landry G, Wilson C, Erickson JE (2019) Estimating nitrogen credit from peanut to *Brassica carinata*. ASA-CSSA-SSSA International Annual Meeting, San Antonio, TX, Nov. 10-13, 2019.
147. Bashyal M, Mulvaney MJ, Lee D, **Leon RG**, Maltais-Landry G, Wilson C, Erickson JE (2019) Carinata growth and yield response to nitrogen rates. ASA-CSSA-SSSA International Annual Meeting, San Antonio, TX, Nov. 10-13, 2019.
146. Bashyal M, Mulvaney MJ, Crozier C, **Leon RG**, Maltais-Landry G, Wilson C, Erickson JE (2019) *Brassica carinata* nutrient uptake and partitioning across maturity groups and latitudes. ASA-CSSA-SSSA International Annual Meeting, San Antonio, TX, Nov. 10-13, 2019.
145. Iboyi JE, Mulvaney MJ, Balkcom KS, Seepaul R, **Leon RG**, Devkota P, Small IM, George S, Wright DL (2019) Tillage and seeding rate effects on the performance of *Brassica carinata*. ASA-CSSA-SSSA International Annual Meeting, San Antonio, TX, Nov. 10-13, 2019.
144. Iboyi JE, Mulvaney MJ, **Leon RG**, Bshyal M, Noia RS, Balkcom KS, Small IM, Devkota P (2019) Physiological behaviour of *Brassica carinata* in response to different plant population density under different tillage systems. ASA-CSSA-SSSA International Annual Meeting, San Antonio, TX, Nov. 10-13, 2019.
143. Iboyi JE, Mulvaney MJ, **Leon RG**, Balkcom KS, Devkota P, Small IM (2019) Previous summer crop effects on yield of *Brassica carinata*. ASA-CSSA-SSSA International Annual Meeting, San Antonio, TX, Nov. 10-13, 2019.
142. Hare AT, Jordan DL, Edmisten KL, **Leon R**, Post A (2009) Potential for agronomic crops in a double cropping system with wheat (*Triticum aestivum* L.) in North Carolina. Proc Am Peanut Res Educ Soc 51:123
141. Mahoney DJ, Jordan D, Hare AT, Burgos NR, Jennings KM, **Leon R**, Vann MC (2019) Palmer amaranth from the North Carolina Coastal Plain: More cause for concern with the herbicide toolbox? Weed Sci Soc North Carolina Annual Meeting Abstracts. March 2019. Raleigh, NC.
140. Jones EAL, Owen MDK, **Leon RG**, Everman WJ (2019) Multiple herbicide resistance traits influence reproductive capacities in select waterhemp populations. Weed Sci Soc North Carolina Annual Meeting Abstracts. March 2019. Raleigh, NC.

139. Hare AT, Jordan DL, **Leon RG**, Inman MD (2019) Weed management effects on peanut yield and weed populations the following year. Weed Sci Soc North Carolina Annual Meeting Abstracts. March 2019. Raleigh, NC.
138. Moore L, Jennings K, Monks D, **Leon R**, Jordan D, Boyette M (2019) Herbicide and growth regulator effects on mature Palmer amaranth (*Amaranthus palmeri*) seed. Weed Sci Soc North Carolina Annual Meeting Abstracts. March 2019. Raleigh, NC.
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136. Piskackova TA, Jennings KM, Richardson R, Reberg-Horton C, **Leon RG** (2019) Modeling sicklepod phenology patterns over chronological, thermal, and hydrothermal time. Weed Sci Soc North Carolina Annual Meeting Abstracts. March 2019. Raleigh, NC.
135. Hunter JE, Austin RE, Richardson R, Gannon T, Neal J, **Leon R** (2019) Weed management evaluation of an integrated system combining UAV-based weed mapping and a UAV-sprayer. Weed Sci Soc North Carolina Annual Meeting Abstracts. March 2019. Raleigh, NC.
134. Mahoney DJ, Jordan D, Hare AT, Burgos NR, Jennings KM, **Leon R**, Vann MC (2019) Growth and seed production of Palmer amaranth when competing with row crops in North Carolina. Weed Sci Soc North Carolina Annual Meeting Abstracts. March 2019. Raleigh, NC.
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131. Mahoney DJ, Jordan D, Hare AT, Burgos NR, Jennings KM, **Leon R**, Vann MC (2019) Palmer amaranth growth and fecundity in competition with various row crops in North Carolina. Weed Sci Soc Am Abstr 59:265
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129. Mahoney DJ, Jordan D, Burgos NR, Jennings KM, **Leon R**, Vann MC (2019) State of resistance for Palmer amaranth populations from the North Carolina Coastal Plain. Weed Sci Soc Am Abstr 59:76
128. Jones EA, Owen MD, **Leon R**, Everman W (2019) Evaluating the reproductive capacities of select multiple herbicide-resistant *Amaranthus tuberculatus* populations. Weed Sci Soc Am Abstr 59:51
127. Hunter JE, Austin RE, Richardson R, Gannon T, Neal J, **Leon R** (2019) Off-target movement risk associated with flying strategies, nozzle type, and wind variability for an unmanned aerial sprayer. Weed Sci Soc Am Abstr 59:27
126. Hunter JE, Austin RE, Richardson RJ, Gannon T, Neal JC, **Leon RG** (2019) Integration of UAV-based weed mapping with a UAV-sprayer for increasing weed control efficiency. Proc South Weed Sci Soc 72:144
125. Mahoney DJ, Jordan D, Hare AT, **Leon RG** (2019) Herbicide efficacy as influenced by density and duration of shade. Proc South Weed Sci Soc 72:96
124. Hare AT, Jordan D, **Leon RG**, Inman M (2019) Weed management effects on peanut yield and weed populations the following year. Proc South Weed Sci Soc 72:84
123. Hunter JE, Austin RE, Richardson RJ, Gannon T, Neal JC, **Leon RG** (2019) Spray efficacy and drift potential of an unmanned aerial sprayer influenced by cross-wind, flight speed, and nozzle selection. Proc South Weed Sci Soc 72:72

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121. Reinhardt Piskackova TA, Reberg-Horton C, Richardson RJ, Jennings K, **Leon RG** (2019) Modeling Palmer amaranth (*Amaranthus palmeri* S. Watson) emergence using chronological, thermal, and hydro-thermal time. Northeastern Plant Pest and Soils Conference. Hunt Valley, MD.
120. Koss S, Reberg-Horton SC, Leon RG, Murphy JP, Mirsky SB (2018) Allelopathic cereal rye breeding. ASA-CSSA Annual Meeting Abstracts. November 2018, Baltimore, MD.
119. Jani AD, Mulvaney MJ, **Leon RG**, Seepaul R, Wright D, Hoffman T (2018) *Brassica carinata* growth and yield characteristics are determined more by row spacing than seeding rate in Southeastern USA. ASA-CSSA Annual Meeting Abstracts. November 2018, Baltimore, MD.
118. Liu W, **Leon RG**, Unruh JB, Kenworthy KE, MacDonald GE, Trenholm LE (2018) Characterization of fluazifop-P-butyl tolerance in six zoysiagrass cultivars. ASA-CSSA Annual Meeting Abstracts. November 2018, Baltimore, MD.
117. Maia LOR, Shaddox TW, **Leon RG**, Kruse J, Unruh JB (2018) Effects of simultaneous fertilizer and preemergence herbicide applications on nitrogen uptake and leaching from Tifway 419 bermudagrass. ASA-CSSA Annual Meeting Abstracts. November 2018, Baltimore, MD.
116. Maia LOR, Shaddox TW, **Leon RG**, Kruse J, Unruh JB (2018) Influence of preemergence herbicides on phosphorus leaching from Tifway 419 bermudagrass. ASA-CSSA Annual Meeting Abstracts. November 2018, Baltimore, MD.
115. Jani AD, Mulvaney MJ, **Leon RG**, Seepaul R, Wright D (2018) Nitrogen (N) release patterns from environmental smart N (ESN) during winter crop production in the Southeastern USA. ASA-CSSA Annual Meeting Abstracts. November 2018, Baltimore, MD.
114. Hunter J, Gannon T, Richardson RJ, Neal J, **Leon R** (2018) Nozzle and speed selection for site-specific herbicide applications using an unmanned aerial sprayer. Aquat Plant Manag Soc Abstr 58:37
113. Reinhardt TA, **Leon RG**, Reberg-Horton C, Richardson RJ, Jennings K, Austin R (2018) Using image classification to identify wild radish seedlings. Weed Sci Soc North Carolina Annual Meeting Abstracts. March 2018. Raleigh, NC.
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111. Horak MJ, Bagavathiannan M, Rouse CE, Shaw D, **Leon RG** (2018) WSSA Herbicide resistance portal: Helping end-users find useful information to manage a serious problem. Northeast Weed Sci Soc Annual Meeting. Philadelphia, PA.
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108. Horak M, Bagavathiannan M, Rouse C, Shaw D, **Leon R** (2018) WSSA Herbicide Resistance Portal: Helping end-users find useful information to manage a serious problem. Weed Sci Soc Am Abstr 58:231
107. **Leon RG**, Wright DL (2018) Allowing temporary weed seed bank growth does not affect cash crop yield in an integrated livestock-row crop rotation. Weed Sci Soc Am Abstr 58:96
106. Oliveira Ribeiro Maia L, Shaddox TW, **Leon R**, Kruse JK (2018) Effects of simultaneous fertilizer and preemergence herbicide applications on nutrient uptake and leaching on Tifway 419 bermudagrass (*Cynodon dactylon*). Weed Sci Soc Am Abstr 58:5

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104. Horak M, Bagavathiannan M, Rouse C, Shaw D, **Leon R** (2018) WSSA Herbicide Resistance Portal: Helping end-users find useful information to manage a serious problem. *Proc South Weed Sci Soc* 71:134
103. Mahoney DJ, Jordan D, Hare A, Roma-Burgos N, Jennings K, **Leon R**, Vann M (2018) Presence and distribution of Palmer amaranth resistant to PPO-inhibiting herbicides in the North Carolina Coastal Plains. *Proc South Weed Sci Soc* 71:56
102. **Leon R**, Ferrell J, Mulvaney M (2018) Identification of herbicides for weed control in carinata (*Brassica carinata*). *Proc South Weed Sci Soc* 71:29
101. Liu W, MacDonald GE, Unruh JB, Kenworthy KE, Trenholm LE, **Leon RG** (2017) Application timing affects tolerance of zoysiagrass toward fluazifop and safening effect of triclopyr. *ASA-CSSA-SSSA Annual Meeting Abstracts*. October 2017, Tampa, FL. 271-11
100. Jani, AD, Mulvaney MJ, Erickson J, **Leon RG**, Wood CW, Rowland DL (2017) Nitrogen contributions from late-summer planted cover crops to winter wheat in a conservation tillage cropping system. *ASA-CSSA-SSSA Annual Meeting Abstracts*. October 2017, Tampa, FL.
99. Jani, AD, Mulvaney MJ, Erickson J, **Leon RG**, Wood CW, Rowland DL (2017) Evaluation of peanut residue nitrogen contributions to wheat in a conservation tillage cropping system. *ASA-CSSA-SSSA Annual Meeting Abstracts*. October 2017, Tampa, FL.
98. Martin LJ, Sellers BA, Ferrell JA, **Leon RG**, Vendramini JMB (2017) Tolerance of perennial peanut (*Arachis glabrata*) to glyphosate and triclopyr. *Proc Florida Weed Sci Soc* 39:22
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96. Durham M, Ferrell J, Thomason K, **Leon R** (2017) Efficacy of sequential glufosinate and dicamba applications on Palmer amaranth (*Amaranthus palmeri*). *Proc Florida Weed Sci Soc* 39:14
95. Pearsaul D, **Leon RG**, Sellers BA, Odero DC, Silveira MA (2017) Limited interactive responses between verticutting and herbicide programs for tropical signalgrass (*Urochloa subquadriflora*) control in turfgrass. *Proc Florida Weed Sci Soc* 39:11
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90. Bravo W, **Leon R**, Ferrell J, Mulvaney M, Wood W (2017) Using populations studies to understand Palmer amaranth (*Amaranthus palmeri*) adaptations to cropping systems. *Proc South Weed Sci Soc* 70:240
89. Tillery SW, McElroy JS, Boyd AP, **Leon R**, McCarty LB, McCullough P, Kelly S, Baker R (2017) Impact of metsulfuron and nitrogen fertility on centipedegrass. *Proc South Weed Sci Soc* 70:213
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82. Jani AD, Mulvaney MJ, Enloe HA, Erickson J, Rowland DL, **Leon RG**, Wood CW (2016) Peanut (*Arachis hypogaea* L.) Residue Nitrogen Mineralization under Contrasting Residue Loads and Tillage Systems. ASA-CSSA-SSSA International Annual Meetings, Phoenix, AZ. Nov. 7
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75. Liu W, **Leon RG**, Kenworthy KE, Unruh JB (2016) Screening and characterization of fluzifop-P-butyl (Fusilade) tolerance in zoysiagrass control. Proc Florida Weed Sci Soc 38:18
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66. Sperry BP, Ferrell JA, **Leon R**, Mulvaney MJ, Rowland DL (2016) S-metolachlor interactions with sesame establishment. *Weed Sci Soc Am Abstr* 56:264
65. Martin LJ, Sellers BA, Ferrell JA, Vendramini JM, **Leon R**, Dias JC (2016) Tolerance of *Arachis pintoi* to PRE and POST emergence herbicides. *Weed Sci Soc Am Abstr* 56:166
64. Lenhardt M, Wells S, Spesard B, **Leon RG** (2016) Cooperative efforts to solve tropical signalgrass control problems in turfgrass. *Weed Sci Soc Am Abstr* 56:161
63. Reyes-Cabrera J, **Leon RG**, Erickson JE, Rowland DL, Silveira ML, Morgan KT (2015) Biochar effects on soybean root growth and plant water status. American Society of Agronomy: Agronomic, Environmental, and Industrial Uses of Biochar Session. Minneapolis, MN. November
62. Liu W, **Leon RG**, Kenworthy KE, Unruh B, Xing L, Munoz PR (2015) Exploring the influence of zoysiagrass breeding lines quality on fluzifop-P-butyl injury. *Proc Florida Weed Sci Soc* 37:14
61. Brecke BJ, **Leon RG** (2015) Single and sequential applications of indaziflam for annual grass and broadleaf control in warm-season turfgrass. *Weed Sci Soc Am Abstr* 55:246
60. **Leon RG**, Gilbert RA, Comstock JC (2015) Growth, reproduction, and weed risk assessment scoring of energycane (*Saccharum* spp. × *Saccharum spontaneum*) clones vary when grown in tropical vs. subtropical conditions. *Weed Sci Soc Am Abstr* 55:193
59. **Leon RG**, Wright DL, Marois JJ (2015) The weed seed bank is more diverse and dynamic in a sod-based than a conventional peanut-cotton rotation. *Weed Sci Soc Am Abstr* 55:190
58. **Leon RG**, Tillman BL (2015) Intra-specific variation for postemergence herbicide tolerance in peanut. *Weed Sci Soc Am Abstr* 55:189
57. **Leon RG**, Ferrell JA (2015) Application timing effect on sicklepod and morningglory control and seed production of surviving plants after applications with glyphosate, 2,4-D, and dicamba combinations. *Weed Sci Soc Am Abstr* 55:134
56. Soni N, **Leon RG**, Erickson JE, Ferrell JA, Silveira ML (2015) Atrazine and pendimethalin weed control is reduced in soils amended with biochar. *Weed Sci Soc Am Abstr* 55:130
55. **Leon RG**, Wright DL, Marois JJ (2015) Crop phase changes weed seed bank composition and density in a sod-based crop rotation. *Proc South Weed Sci Soc* 68:260
54. **Leon RG**, Tillman BL (2015) Identification of peanut breeding lines with high and low tolerance to postemergence herbicides. *Proc South Weed Sci Soc* 68:252
53. **Leon RG**, Unruh B, Brecke BJ (2015) How does runoff movement of indaziflam and amicarbazone compare to other preemergence herbicides in turfgrass. *Proc South Weed Sci Soc* 68:208
52. Brecke BJ, **Leon RG** (2015) Indaziflam single and sequential applications for annual grass and broadleaf control in warm-season turfgrass. *Proc South Weed Sci Soc* 68:201
51. Soni N, **Leon RG**, Erickson JE, Ferrell JA, Silveira ML (2015) Biochar reduces preemergence herbicide availability and weed control when used as a soil amendment. *Proc South Weed Sci Soc* 68:125
50. Liu W, **Leon RG**, Kenworthy KE, Unruh B, Xing L, Munoz PR (2015) Exploring the influence of zoysiagrass breeding lines quality on fluzifop-P-butyl injury. *Proc South Weed Sci Soc* 68:95

49. **Leon RG**, Ferrell JA (2015) Sicklepod and morningglory control and seed production of surviving plants after treatment with tank mixtures of glyphosate with 2,4-D and dicamba. Proc South Weed Sci Soc 68:46
48. Erickson JE, **Leon RG**, Sollenberger LE, Silveira M, Ingram LO (2014) Direct effects of converting conventional cropping systems to biofuel cropping systems on ecosystem services for the southeastern U.S.A. USDA-NIFA. Sustainable Bioenergy PD. p.71
47. **Leon RG**, Tillman B (2014) Characterizing variability in postemergence herbicide tolerance in peanut breeding lines. Proc Am Peanut Res Educ Soc 46:53
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45. **Leon RG**, Tillman B, Unruh JB, Kenworthy KE (2014) Screening for herbicide tolerance as part of breeding programs to develop more robust weed control strategies. Proc Florida Weed Sci Soc 36:19
44. Abe DG, Sellers BA, Ferrell JA, **Leon RG**, Otero DC (2014) Tolerance of bermudagrass, stargrass and bahiagrass to aminocyclopyrachlor. Proc Florida Weed Sci Soc 36:12
43. Soni N, **Leon RG**, Erickson JE, Ferrell JA, Silveira ML (2014) Atrazine and pendimethalin herbicidal activity is influenced by biochar and vinasse in laboratory conditions. Proc Florida Weed Sci Soc 36:9
42. **Leon RG**, Brecke B, Ferrell JA (2014) Peanut injury and yield reduction in response to simulated 2,4-D and dicamba drift at two growth stages. Weed Sci Soc Am Abstr 54:357
41. Soni N, **Leon RG**, Erickson JE, Ferrell JA, Silveira ML (2014) Germination and growth of three weed species in response to the addition of vinasse and biochar to the soil. Weed Sci Soc Am Abstr 54:228
40. **Leon RG**, Shaw D, Brosnan JT, McElroy JS, Askew SD (2014) WSSA lesson modules for herbicide resistance management in turfgrass. Weed Sci Soc Am Abstr 54:148
39. **Leon RG**, Unruh B, Kenworthy KE (2014) Screening for tolerance to asulam in St. Augustinegrass and to fluazifop-P-butyl in zoysiagrass germplasm. Weed Sci Soc Am Abstr 54:47
38. Alexander AL, Breeden GK, Brosnan JT, Peterson VF, Flessner ML, Loughner DD, Breuninger JM, Brecke B, **Leon R** (2014) Dithiopyr: new development for post emergence crabgrass control in the Western and Southern US. Proc South Weed Sci Soc 67:270
37. Brecke B, **Leon RG**, Ferrell JA (2014) Peanut injury and yield reduction in response to simulated 2,4-D and dicamba drift at two growth stages. Proc South Weed Sci Soc 67:250
36. **Leon RG**, Shaw D, Brosnan JT, McElroy JS, Askew SD (2014) WSSA lesson modules for herbicide resistance management in turfgrass. Proc South Weed Sci Soc 67:228
35. **Leon RG**, Unruh B, Kenworthy KE (2014) Benefits and limitations of screening zoysiagrass and St. Augustinegrass germplasm for postemergence herbicide tolerance. Proc South Weed Sci Soc 67:223
34. Soni N, **Leon RG**, Erickson JE, Ferrell JA, Silveira ML (2014) Influence of vinasse and biochar on the germination and growth of three weed species. Proc South Weed Sci Soc 67:149
33. Abe DG, Sellers BA, Ferrell JA, **Leon RG**, Otero D (2014) Forage tolerance to aminocyclopyrachlor. Proc South Weed Sci Soc 67:130
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30. Soni N, **Leon RG**, Erickson JE, Ferrell JA (2013) Vinasse and biochar effect on germination of three weed species. ASA, CSSA, and SSSA International Annual Meeting, Tampa, FL. 332-3
29. Mason A, Schnell RW, Ferrell JA, **Leon RG**, Lee WS (2013) Comparing grid and EC_a directed zone soil sampling schemes for peanut production. ASA, CSSA, and SSSA International Annual Meeting, Tampa, FL. 316-3

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27. **Leon RG**, Gonzalez-Andujar JL (2013) Using growing degree days for predicting itchgrass (*Rottboellia cochinchinensis*) emergence in the tropics. Weed Sci Soc Am Abstr 53:358
26. Brecke BJ, **Leon RG**, Unruh B (2013) Broadleaf weed management in warm-season turfgrass. Weed Sci Soc Am Abstr 53:244
25. **Leon RG**, Gilbert RA, Comstock JC (2013) Assessing vegetative and reproductive growth of energycane cultivars. Proc Florida Weed Sci Soc
24. Berger S, Ferrell J, **Leon RG** (2013) Impact of post emergence applications of 2,4-D and dicamba on peanut. Proc South Weed Sci Soc 66:58
23. Ferrell J, **Leon RG** (2013) Peanut response to 2,4-DB + lactofen combinations. Proc South Weed Sci Soc 66:59
22. **Leon RG**, Gilbert RA, Comstock JC (2013) The importance of considering genotype-environment interactions to assess the risk of weediness of energycane cultivars. Proc South Weed Sci Soc 66:110
21. Berger S, Ferrell J, Webster TM, **Leon RG** (2013) Influence of carrier volume and nozzle selection on palmer amaranth control. Proc South Weed Sci Soc 66:119
20. Brecke BJ, **Leon RG**, Unruh J (2013) Annual grass control in warm-season turfgrass. Proc South Weed Sci Soc 66:251
19. **Leon RG**, Brecke BJ, Unruh J, Kenworthy KE (2013) Differential response to fluazifop-P-butyl in zoysiagrass cultivars. Proc South Weed Sci Soc 66:265
18. **Leon RG** (2011) Principles to increase fertilization and pest control efficiency in crop production. Invited presentation (Spanish). Workshop "Plant Physiology Applications". Guatemala, City, Guatemala (Mar 2011)
17. **Leon RG** (2010) Crop Protection decision making based on growth and development of organisms. Invited presentation (Spanish). Workshop "The role of decision making support systems in crop protection". EARTH University, Guácimo, Costa Rica (Oct 2010)
16. **Leon RG**, Gilbert RA, Comstock JC (2010) Potential for energycane in tropical agroecosystems. Invited presentation (Spanish). Alumni Congress, EARTH University. (Sep 2010).
15. **Leon RG**, Gilbert RA, Comstock JC (2010) Selection criteria and performance of energycane clones (*Saccharum* spp. × *S. spontaneum*) for biomass production under tropical and sub-tropical conditions. Conferencia invitada. International Conference on Bio-fuel Crop Production and Development. Zamorano, Honduras (Aug 2010)
14. **Leon RG** (2010) Learning about sustainable development beyond the classroom. Invited presentation. Department of Agricultural Extension and Rural Development, University of Ibadan, Ibadan, Nigeria (Jul 2010)
13. **Leon RG** (2010) Sustainability challenges for pineapple production in Costa Rica. Invited presentation (Spanish). Institute for Sustainable Agriculture, Spanish Superior Council for Scientific Research. Córdoba, Spain (Jun 2010)
12. **Leon RG** (2009) Weed management in organic and conventional banana plantations. Keynote speaker (Spanish). First International Congress on Tropical Agriculture and Second Agrifood National Symposium. Villahermosa, Tabasco, México (Aug 2009)
11. **Leon RG** (2009) Finding space for biofuel crop production: A small country's perspective. Bioeconomy Conference. University of California, Berkeley. Invited presentation. (Jul 2009)
10. **Leon RG**, Sanguankeo PP (2009) Influence of weed control practices on production and arthropod diversity in a Zinfandel vineyard in the Central Coast of California. Weed Sci Soc Am Abstr 49 [CD-ROM Computer File 494] Weed Sci Soc Am, Lawrence, KS (Feb 2009)

9. **Leon RG**, Bassham D, Owen MDK (2006) Temperature and hormonal regulation of seed dormancy alleviation in *Amaranthus tuberculatus*. Weed Sci Soc Am Abstr 46 [CD-ROM Computer File 109] Weed Sci Soc Am, Lawrence, KS (Feb 2006)
8. **Leon RG**, Owen MDK (2004) Are seedling emergence patterns in artificial seed banks representative of natural emergence patterns in natural seed banks? Weed Sci Soc Am Abstr 44 [CD-ROM Computer File 62] Weed Sci Soc Am, Lawrence, KS (Feb 2004)
7. **Leon RG**, Owen MDK (2003) Independent responses of soybean early growth to stresses caused by soybean cyst nematode and postemergence herbicide applications. North Central Weed Sci Soc Abstr 58 [CD-ROM Computer File 49] North Central Weed Sci Soc, Champaign, IL (Dec 2003)
6. **Leon RG**, Owen MDK (2003) Intraspecific genetic variation in common waterhemp (*Amaranthus tuberculatus*) seed dormancy regulation. North Central Weed Sci Soc Abstr 58 [CD-ROM Computer File 77] North Central Weed Sci Soc, Champaign, IL (Dec 2003)
5. **Leon RG**, Owen MDK (2003) Complex seed dormancy control in a weedy Amaranth. Amaranth Institute Meeting, Ames, IA (Aug 2003) Legacy 15:3
4. **Leon-Gonzalez RG**, Owen MDK (2003) Control of common waterhemp (*Amaranthus tuberculatus*) seed dormancy by light and temperature. Weed Sci Soc Am Abstr, Lawrence, KS (Feb 2003) 43:22
3. **Leon-Gonzalez RG**, Owen MDK (2002) Effect of light and temperature interactions on weed seed dormancy. North Central Weed Sci Soc Abstr 57 [CD-ROM Computer File 121] North Central Weed Sci Soc, Champaign, IL (Dec 2002)
2. **Leon-Gonzalez RG**, Owen MDK (2002) Temperature regulation of seed dormancy of three weeds. North Central Weed Sci Soc Abstr 57 [CD-ROM Computer File 49] North Central Weed Sci Soc, Champaign, IL (Dec 2002)
1. **Leon-Gonzalez RG**, Aguero R (2000) Effect of different production practices on weed populations in sugarcane (*Saccharum officinarum* L.). North Central Weed Sci Soc Proc, Champaign, IL (Dec 2000) 55:38

Theses

- Leon-Gonzalez, R.G.** Genetic and physiological characterization of seed dormancy regulation in common waterhemp [*Amaranthus tuberculatus* (Moq.) Sauer.]. Thesis (Ph.D.) -- Iowa State University, 2005. 127 p.
- Leon-Gonzalez, R.G.** Environmental control of seed dormancy, germination and seedling emergence of three weed species. Thesis (M.Sc.) -- Iowa State University, 2003. 92 p.

EXTENSION PUBLICATIONS

45. **Leon R**, Jordan D, Jennings K, Monks, Vann M, Fisher L, Everman W, Cahoon C, Inman M, Reberg-Horton C, Atwell-Vann R, Mahoeny D, Hare D, York A. Challenges with herbicide resistance and value of cultural practices in managing weeds. North Carolina State University Extension. 24 p. Available at <https://content.ces.ncsu.edu/challenges-with-herbicide-resistance-and-value-of-cultural-practices-in-managing-weeds>
44. **Leon R**. 2019. Development of weed control tools for *Brassica carinata*. SPARC Plug October 2019:1-2.
43. Yelverton F, **Leon R**. 2019. Annual bluegrass (*Poa annua*) spring invasion. <https://www.turffiles.ncsu.edu/2019/04/annual-bluegrass-poa-annua-spring-invasion/>
42. Mulvaney MJ, Cockson P, Whipker B, Crozier C, Seepaul R, Small I, Wright D, Paula-Moraes, Post A, **Leon R**. 2018. Identification of *carinata* frost damage grown in the Southeastern US. North Carolina St. Univ. Small Grains Portal – From the Field-Agronomy Notes.

41. Cockson P, Crozier C, **Leon R**, Mulvaney M, Post A, Whipker B. Boron deficiency of Carinata. North Carolina St. Univ. Small Grains Portal – From the Field-Agronomy Notes.
40. Seepaul R, Small IM, Mulvaney MJ, George S, **Leon RG**, Paula-Moraes, SV, Geller D, Marois JJ, Wright DL. Carinata, the sustainable crop for a bio-based economy: 2018-2019 Production recommendations for the Southeastern United States. EDIS-SS-AGR384. Published 2019
39. Seepaul R, Small IM, Mulvaney MJ, George S, **Leon RG**, Geller D, Marois JJ, Wright DL. Carinata, the Jet Fuel Cover crop: 2016 Production recommendations for the Southeastern United States. EDIS-SS-AGR389. Revised 2018
38. Mulvaney MJ, Seepaul R, Small I, Wright D, Paula-Moraes S, Crozier C, Whipker B, **Leon R**. Frost damage of carinata grown in the Southeastern US. EDIS-AGR-420. Published 2018
37. Ferrell J, **Leon R** Using dicamba in dicamba-tolerant crops. EDIS AGR-412. Published 2017
36. **Leon RG**, Unruh B. Turfgrass Herbicides: Mechanisms of action and resistance management. EDIS AGR-394. Published 2015
35. Ferrell JA, **Leon RG**. Weed management in sesame. EDIS AGR-392. Published 2015
34. **Leon RG**, Unruh B. Doveweed (*Murdannia nudiflora*) control in warm-season turfgrass species. EDIS AGR-391 Published 2015
33. Soni N, **Leon RG**, Erickson JE, Ferrell JA. Biochar effects on weed management. EDIS AGR-386. Published 2015
32. Ferrell J, Colvin B, **Leon R**. Hairy indigo control in peanut. EDIS AGR-387. Published 2015
31. Bliss CM(p), Seepaul R, Wright DL, Marois JJ, **Leon R**, Dufault NS, Olson SM. Carinata production in Florida. EDIS AGR-384. Published 2015
30. Unruh JB, Brecke BJ, **Leon R**. Metric system conversion factors. EDIS AGR-39. Reviewed 2014
29. Telenko DEP, Brecke BJ, **Leon R**, Unruh JB. Violet biology and management in turf. EDIS ENH-1235. Revised 2016
28. Unruh JB, Telenko DEP, Brecke BJ, **Leon R**. Spreading dayflower biology and management in turf. EDIS ENH-1236. Revised 2016
27. Telenko DEP, **Leon R**, Unruh JB, Brecke BJ. Sedge biology and management in turf. EDIS ENH-1231. Published 2013
26. Telenko DEP, Brecke BJ, **Leon R**, Unruh JB. Old world diamond-flower biology and management in turf. EDIS ENH-1232. Revised 2016
25. Brecke BJ, **Leon R**, Unruh JB, Telenko DEP. Black medic biology and management in turf. EDIS ENH-1233. Revised 2016
24. Unruh JB, Telenko DEP, Brecke BJ, **Leon R**. Erect and prostrate spurge biology and management. EDIS ENH-1234. Revised 2016
23. **Leon RG**, Wright DL, Brecke BJ. Cotton defoliation and harvest aid guide. EDIS SS-AGR-181. Revised 2016
22. Unruh JB, **Leon RG**, Brecke BJ, Stenholm LE. Weed management guide for Florida lawns. EDIS ENH-884. Revised 2015
21. Telenko DEP, **Leon RG**, Unruh B. Crabgrass biology and management in turf. EDIS ENH-1134. Revised 2016
20. Telenko DEP, **Leon RG**, Unruh JB. Goosegrass biology and management in turf. EDIS ENH-1133. Revised 2016
19. Unruh JB, **Leon RG**, Telenko DEP. Tropical signalgrass biology and management in turf. EDIS ENH-1132. Revised 2016
18. Telenko DEP, **Leon RG**, Unruh JB. Annual bluegrass biology and management in turf. EDIS ENH-

1131. Revised 2016
17. **Leon RG**, Telenko DEP, Unruh JB. Pennywort (Dollarweed) biology and management in turf. EDIS ENH-1128. Revised 2016
 16. Unruh JB, **Leon RG**, Partridge-Telenko DE, Brecke BJ. Florida betony biology and management in turf. EDIS ENH-1127. Revised 2016
 15. Unruh JB, **Leon RG**, Telenko DEP. Torpedograss biology and management in turf. EDIS ENH-1126. Revised 2016
 14. Telenko DEP, **Leon RG**, Unruh JB, Brecke BJ. Virginia buttonweed and management in turf. EDIS ENH-1125. Revised 2016
 13. Unruh JB, **Leon RG**, Partridge-Telenko DE, Brecke BJ. Yellow woodsorrel (*Oxalis*) biology and management in turf. EDIS ENH-1124. Revised 2016
 12. Ferrell JA, MacDonald GE, **Leon R**. Weed management in peanuts - 2013. EDIS SS-AGR-03. Revised 2015
 11. Berger S, Ferrell J, **Leon R**. Diagnosing herbicide injury in cotton. EDIS SS-AGR-358. Published and Revised 2015
 10. Ferrell J, **Leon R**. Control of palmer amaranth in agronomic crops. EDIS SS-AGR-338. Revised 2016
 9. Morichetti S, Ferrell J, **Leon R**. *Amaranthus palmeri* "Palmer amaranth". EDIS SS-AGR-336. Revised 2015
 8. Ferrell JA, Sellers B, MacDonald GE, **Leon R**. Wild radish--biology and control. EDIS SS-AGR-236. Revised 2015
 7. Morichetti S, Ferrell J, **Leon R**. Diagnosing herbicide injury in peanut. EDIS SS-AGR-327. Revised 2015
 6. Ferrell JA, Sellers BA, **Leon R**. Calibration of herbicide applicators. EDIS SS-AGR-102. Revised 2015
 5. Ferrell JA, MacDonald GE, **Leon R**. Benghal dayflower (*Commelina benghalensis*, L.) identification and control. EDIS SS-AGR-223. Revised 2015
 4. Ferrell JA, MacDonald GE, **Leon R**. Weed management in small grains harvested for grain. EDIS SS-AGR-07. Revised 2015
 3. Ferrell JA, MacDonald GE, **Leon R**. Weed management in soybeans. EDIS SS-AGR-05. Revised 2015
 2. Ferrell JA, MacDonald GE, **Leon R**. Weed management in cotton. EDIS SS-AGR-04. Revised 2015
 1. Ferrell JA, MacDonald GE, **Leon R**. Weed management in corn. EDIS SS-AGR-02. Revised 2015

Non-refereed Publications

Newsletters

19. **Leon RG** (2016) Challenges for use of glyphosate alternatives in urban landscapes. Panhandle Ag e-news. <http://nwdistrict.ifas.ufl.edu/phag/2016/05/27/challenges-for-use-of-glyphosate-alternatives-in-urban-landscapes/>. 4 p. Accessed 6/1/16. **Featured in the front page of Growing Florida (<http://growingfl.com>). 5/31/16**
18. **Leon RG** (2016) Time to order turfgrass preemergence herbicides. Panhandle Ag e-news. <http://nwdistrict.ifas.ufl.edu/phag/2016/01/15/time-to-order-turfgrass-preemergence-herbicides/>. 2 p. Accessed 1/15/16.
17. **Leon RG** (2015) Biochar: new applications of an old agricultural practice. Panhandle Ag e-news. <http://nwdistrict.ifas.ufl.edu/phag/2015/08/07/biochar-new-applications-of-an-oldagricultural-practice/>. 3 p. Accessed 8/7/15
16. Ferrell J, **Leon R** (2015) Crop oil adjuvants: 1% v/v or 1 qt/A? Agronomy Notes 39(2):3
15. Colvin B(g), Ferrell J, **Leon R** (2015) Hairy indigo control in peanuts. Panhandle Ag e-news.

- <http://nwdistrict.ifas.ufl.edu/phag/2015/02/20/hairy-indigo-control-in-peanuts/>. 4 p. Accessed 4/7/15
14. **Leon R** (2015) Doveweed: a growing problem in warm-season turfgrasses. Panhandle Ag e-news. <http://nwdistrict.ifas.ufl.edu/phag/2015/04/10/doveweed-a-growing-problem-in-warmseason-turfgrasses/>. 4 p. Accessed 4/10/15. **Panhandle Ag e-news Reader's Choice Award.**
 13. **Leon R** (2014) Losing another herbicide for goosegrass control in turfgrass. University of Florida. IFAS Extension. *Agronomy Notes* 38(4):4
 12. Ferrell J, **Leon R** (2014) Nutsedge control in cotton and peanuts. University of Florida. IFAS Extension. *Agronomy Notes* 38(3):7
 11. **Leon RG** (2014) Controlling turfgrass winter weeds on time. University of Florida. IFAS Extension. *Agronomy Notes* 38(1):6-7
 10. **Leon RG**, Kellon D (2013) Technical and social considerations of a rapid increase in pineapple production in Costa Rica. International Society of Horticultural Science. *Pineapple News* 20:29-33
 9. Wright D, **Leon RG** (2013) Planning cotton defoliation and harvest. University of Florida. IFAS Extension. *Agronomy Notes* 37(10):2
 8. **Leon RG** (2013) Summer grass weed control in turfgrass. University of Florida. IFAS Extension. *Agronomy Notes* 37(9):7
 7. Ferrell J, **Leon RG** (2013) Importance of direct spray for cotton weed control. University of Florida. IFAS Extension. *Agronomy Notes* 37(6):5
 6. Ferrell J, **Leon RG** (2013) Early season weed control: Frequently asked questions. University of Florida. IFAS Extension. *Agronomy Notes* 37(5):5
 5. **Leon RG** (2013) Timing preemergence herbicide applications in turf for early emerging weeds in Florida. University of Florida. IFAS Extension. *Agronomy Notes* 37(1):5
 4. **Leon RG** (2012) Glyphosate applications for winter weed control in lawns. University of Florida. IFAS Extension. *Agronomy Notes* 36(12):6
 3. **Leon RG**, Sellers B, Ferrell J (2012) Limited herbicide alternatives for perennial peanut in residential areas. University of Florida. IFAS Extension. *Agronomy Notes* 36(11):5-6
 2. **Leon RG** (2012) Monitoring for herbicide resistant weeds in turf. University of Florida. IFAS Extension. *Agronomy Notes* 36(10):6
 1. **Leon RG** (2012) Early weed emergence due to above normal temperatures during the spring. University of Florida. IFAS Extension. *Agronomy Notes* 36(8):3

Popular Press

7. Kenworthy K, Norma F, Quesenberry K, Harmon P, Unruh B, **Leon R**, Brenda N (2015) Breeding update for improved zoysiagrass and St. Augustinegrass. *Florida Turf Digest*. 32(1): 16-21
6. **Leon R** (2015) Herbicide resistance: more than a challenge for the turfgrass industry. *Florida Turf Digest*. 32(1):16-19
5. **Leon R** (2015) Weed management without MSMA: acting earlier and integrating control practices. *Florida Turf Digest*. 32(1): 10-11. *Featured article*
4. **Leon R** (2013) Turfgrass weed management research program. *Clippings*. Fall 2013: 8
3. **Leon RG** (2013) Managing doveweed in St. Augustinegrass. *Pest Pro* 9(3):8-11
2. **Leon RG**, Headrick DH, Shelton M (2006) Attracting the Next Generation of PCA's: One University's Perspective. *CAPCA Adviser Magazine*. July-August, 8-9

1. Headrick DH, **Leon RG** (2006) Identifying Management Choices for Pests. CAPCA Adviser Magazine. July-August, 14-15

Handbooks

2. Harlow EE, **Leon RG**, Unruh JB (2015) Identification guide to common Florida lawn and ornamental weeds. University of Florida IFAS-Extension. SP499. 63 p.
1. Aguero R, **Leon R** (2000) Manual para la identificación de plántulas de malezas en el agroecosistema de la caña de azúcar. Universidad de Costa Rica. LAMA-CIPROC

TEACHING, ADVISING AND UNIVERSITY SERVICE

Courses Taught

North Carolina State University:

- Weed Ecology (CS 590). 2017-2019
- Weed Biology (CS/HS 716). 2020-present
- Weed Management Systems (CS/HS 717). 2018-present

EARTH University:

- Integrated Weed Management (CUL203). 2007-2011
- Fieldwork experience on pest management (EXP200). 2007-2011
- Organic Horticulture (CUL405). 2009-2011
- Applied Plant Physiology (CUL416). 2010

California Polytechnic State University:

- Weed Ecology (PPSC-321). 2005-2007
- Advanced Weed Science (PPSC-405). 2005-2007
- California Field Crops (CRSC-132). 2006-2007
- Experimental Techniques and Analysis (CRSC-411). 2007

Iowa State University:

- Principles of Weed Management (AGRON 317)*. 2002-2004
- Seed Science and Technology (AGRON 338)*. 2002-2004

University of Costa Rica

- Weed Control (AF-4509)*. 1999
- Experimental Design (AF-0300)*. 1999
- Principles and Applications of Plant Physiology (AF-3406)*. 1998
- Crop Production Physiology (AF-3410)*. 1998
- Botany Laboratory II (B -0111)*. 1997
- Botany Laboratory I (B -0112)*. 1996-1997

* Teaching Assistant

LANGUAGES

- Spanish (native)
- English (fluent)