

Jeff Edwards

Professional Objective

Provide visionary leadership to promote excellence in the land grant system and increase the capacity and resiliency of food systems through education, innovation, engagement, and advocacy.

Education and Leadership Development

- Food Systems Leadership Institute, Cohort 14, 2020
- Oklahoma State University Academic Leadership Academy, 2018
- LEAD 21 Class VII, 2011
- Ph.D. Crop Physiology, University of Arkansas, Fayetteville, 2004
- M.S. Weed Science, University of Arkansas, Fayetteville, 2001
- B.S. Agriculture, Western Kentucky University, Bowling Green, 1995

Professional Experience

2022 - Present: Department Head and Professor (100% Administration)

Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville

Provide visionary leadership and strategic direction for approximately 30 faculty and 50 staff who fulfill the land-grant mission and serve Arkansas stakeholders through excellence in teaching, research, and extension. Our department includes two undergraduate majors serving approximately 185 students and awards over \$240,000 in undergraduate scholarships annually. Additionally, Crop, Soil, and Environmental Sciences faculty support around 45 students in departmental MS and PhD programs and interdisciplinary advanced degree programs. Faculty are located on the main University of Arkansas, Fayetteville campus, the State Cooperative Extension Office in Little Rock, and Research and Extension Centers throughout the state. Annual expenditures for maintenance, operations, and personnel the department exceed \$10M.

- Recruited and onboarded seven new faculty positions with four additional faculty hires planned in 2023-2024
- Established a formal mentoring program for assistant professors and led faculty in establishing indicators of effectiveness and excellence for departmental promotion and tenure guidelines
- Directed departmental funds to enhance and leverage Bumpers Graduate Student Diversity Stipend program
- Implemented Friday updates to improve frequency and quality of internal communications
- Increased emphasis on annual giving and fundraising through communication and tools such as QR codes, direct links, etc.

- Initiated and secured funding for infrastructure improvements including two large growth chambers with ability to provide elevated CO₂
- Worked with Arkansas Agricultural Experiment Station, Horticulture, and Entomology and Plant Pathology administrators to fund a greenhouse manager position to improve service and quality of greenhouse and controlled environment research systems

2015 - 2022 Department Head and Professor (100% Administration)

Department of Plant and Soil Sciences, Oklahoma State University, Stillwater

Provided leadership and administration for approximately 22 faculty and 30 staff who worked to find the best ways to meet global demand for food, feed, fiber, and fuel while preserving and enhancing our soil and water resources. Major thematic areas include plant breeding and genetic resources, precision nutrient management and soils, crop production and management, and water management and adaptation to climate change.

- Coached faculty through successful reappointment (7), promotion to associate professor with tenure (5 total, including 4 actions in 2021), and promotion to professor (8)
- Established formal mentoring committees for assistant professors and led faculty through revision of reappointment, promotion, and tenure policies and procedures and development of policies and procedures for promotion of non-tenure track faculty
- Facilitated, mentored, and coached faculty as they doubled (\$3M FY15 to \$6M FY20) external grant funding for research, extension, and teaching programs
- Worked with OSU Foundation and donors to fund projects including a \$100,000 student activities endowment, five endowed scholarships, several annually funded scholarships, and numerous gifts in kind for research activities
- Cooperated with internal and external stakeholders to fund and construct a new \$3.68M Oklahoma Foundation Seed Stocks warehouse and seed cleaning facility
- Navigated budget cuts nearing 30% without eliminating core services or mission critical efforts
- Collaborated with Horticulture and Landscape Architecture administration to combine financial services resulting in increased resiliency of institutional knowledge and improved financial services supporting faculty
- Streamlined departmental office procedures and implemented online safety training and record keeping through CANVAS learning management system
- Collaborated with Oklahoma Agricultural Experiment Station leadership and the Vice President of Research to remodel an environmental soil chemistry lab
- Responsible for communicating and collaborating with stakeholder groups, alumni, commodity organizations, government agencies, and corporate supporters
- Increased scope and number of undergraduate research projects and facilitated a faculty-led effort to start an undergraduate research poster competition
- Early adopter of social media and innovative outreach technologies to deliver scientific information to stakeholders and increase public awareness of programs
- Initiated departmental e-newsletter to highlight faculty, student, and staff accomplishments
- Remodeled student offices and staff workspaces

2004 - 2015 Small Grains Extension Specialist (75% Extension / 25% Research)

Department of Plant and Soil Sciences, Oklahoma State University, Stillwater

- Assistant Professor 2004 – 2009
- Associate Professor 2009 – 2011
- Associate Professor and Warth Distinguished Professorship 2011 - 2012
- Professor and Warth Distinguished Professorship 2012 – 2015

I directed a comprehensive small grains research and extension program that delivered research-based agronomic recommendations to stakeholders in a timely fashion using various traditional and non-traditional communication outlets. Our program was stakeholder focused, and regular communication and interaction with commodity and private-industry stakeholder groups was an integral part of my outreach efforts. My extension and research program was recognized with several awards including the 2013 USDA National Excellence in Extension Award. Areas of research and extension included: wheat variety testing, evaluation of experimental cultivars for area of adaptation and tolerance to dual-purpose management, sustainable agricultural production systems, optimal fertilization strategies for small grains, and development of robust small grains production systems that were adaptable to changing climatic and environmental conditions.

1999 - 2004 Graduate Research Assistant

Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville

MS, Advisor – Dr. Dick Oliver

My thesis research focused on weed control in agronomic production systems. Specific areas of research included weed interference, ecology, and morphology, herbicide screening, field verification of decision-aid software, evaluation of glyphosate tank mix efficacy, and glyphosate uptake and translocation in perennial plants.

PhD, Advisor – Dr. Larry Purcell

My dissertation research centered on drought avoidance and irrigation reduction using short season cropping systems. Our research established that under well-watered conditions crop biomass production and yield have an asymptotic response to cumulative light interception. Using the data, we developed a mechanistic approach to determining the optimal plant population density for maize and soybean. Other research areas included production of multiple warm-season crops in a single season, establishment of plant population density thresholds for replanting decisions, response of short-season soybean cultivars to diphenylether herbicides, and economic analysis of short-season cropping systems.

1995 - 1999 Crop Consultant and Assistant Manager

Opti-Crop Division, Miles Enterprises, Owensboro, KY

Provided technical support and supervision for approximately 20 crop consultants and personally advised growers on approximately 10,000 acres of corn, wheat, and soybean. Duties included hiring and guidance of new employees located in agricultural retail facilities in KY, IN, and TN.

Leadership Roles and Professional Involvement

- U.S. Wheat and Barley Scab Initiative Steering Committee – 2022 – 2026
- University of Arkansas System
 - Chair – Senior Associate Vice President Extension search committee
 - Bumpers College Recruiter search committee
 - Bumpers College Director of Development search committee
 - Bumpers College Director of Employer Relations search committee
- Oklahoma State University
 - Oklahoma Mesonet Steering Committee 2021 - 2022
 - Chair Biosystems and Agricultural Engineering Department Head search committee 2020
 - DASNR Digital Governance Committee 2019 - 2022
 - Oklahoma Cooperative Extension Service Joint Council 2018 - 2022
 - Chair Associate Vice President, Oklahoma Cooperative Extension Service search committee 2018
 - Chair Field and Research Services Unit Director search committee 2017
 - Plant Materials Release Committee 2010 - 2022
 - Chair of forage systems cluster hire search and screen committee 2014
 - Extension Centennial Celebration Committee 2013 - 2014
 - Agriculture Communication Services Director search and screen committee 2013
 - Team Leader – DASNR Wheat Multiple Uses and Crop Management Initiative Teams 2005 – 2015
 - OSU Outside Activities Policy Task Force 2013
 - OSU Presidential Search Committee 2008
 - Plant and Soil Sciences Reappointment, Promotion, and Tenure Committee 2012 to 2015
 - Plant and Soil Sciences Distinguished Speaker Committee 2012-2014
 - Plant and Soil Sciences Endowed Professorships Committee 2011-2015
 - Chair and member of several Plant and Soil Sciences faculty searches
- Oklahoma State University Agriculture Faculty Council
 - Chair 2014, 2015
 - Led development of policies and procedures for a division-level reappointment, promotion, and tenure committee
 - Initiated updating and revision of faculty council by-laws
- American Society of Agronomy (ASA)
 - Membership Committee 2005-2007
 - Early Career Members Committee Chair 2010
 - Early Career Members Committee Vice Chair 2009
- Crop Science Society of America (CSSA)
 - Division C-3 Poster Judge 2015 - 2019
 - Division C-3 Chair 2011
 - Division C-3 Chair-Elect 2010
 - Associate Editor *Crop Science* 2009-2011

- Crop Science Teaching Award Committee 2005-2007
- Outstanding Young Crop Scientist Selection Committee 2003-2005
- Southern Wheat Research and Education Consortium (SWREC)
 - Chair 2009-2010
 - Vice-chair 2008-2009
 - Secretary 2007-2008
- Oklahoma Genetics Incorporated Board of Directors –Ex Officio 2015 – 2022
- Oklahoma Crop Improvement Association
 - Board of Directors –Ex Officio 2015 - 2022
 - Small grains committee Vice Chair 2014 - 2016
- International Certified Crop Advisor Exam and Procedures Committee 2012 – 2015
- Oklahoma Agribusiness Retailers Association
 - Board of Directors – Ex Officio– 2015 - 2022
 - Certified Crop Advisor Committee 2008 – 2022
- Oklahoma Certified Crop Advisor Board 2008 – 2016
- Advisor Pi Chapter Alpha Gamma Rho – 2018 - 2022
- 1994 – 1995 KY State FFA Officer

Selected Awards, Honors, and Certifications:

- 2022 Oklahoma Crop Improvement Association Premier Supporter Award
- 2021 OSU Career Services Career Champion Award
- 2017 American Society of Agronomy Extension Materials 2nd Place Publication – Dual-purpose wheat: improving grazing management using a smartphone app. R. Lollato, A. Patrignani, T. Ochsner, A. Rocateli, P. Tomlinson, and J. Edwards
- 2013 National Excellence in Extension Award
- Warth Distinguished Professorship in Agronomy 2011-2016
- 2012 *Crop Science* Citation of Excellence for Associate Editors
- 2011 *Agronomy Journal* Outstanding Reviewer Award
- American Society of Agronomy 2010 Educational Materials Award for: The plant and soil sciences extension newsletter. J. Edwards, C. Godsey, B. Arnall, H. Zhang, J. Armstrong, D. Redfearn, J. Warren, T. Royer, L. Brown, and B. Hunger
- American Society of Agronomy 2008 Educational Materials Award for: No-till wheat production in Oklahoma. OSU Extension Facts, No. 2132. Oklahoma State Univ., Coop. Ext. Service, Stillwater, OK. Edwards, J., F. Epplin, B. Hunger, C. Medlin, T. Royer, R. Taylor, and H. Zhang
- 2007 Oklahoma Wheat Growers Association Wheat Promoter of the Year
- 2007 ASA-CSSA-SSSA Early Career Professional Award
- 2006 *Agronomy Journal* Editors' Citation for Excellence in Manuscript Review
- American Society of Agronomy 2006 Educational Materials Award for: No-till cropping systems in Oklahoma E-996 Oklahoma State Univ., Coop. Ext. Service, Stillwater, OK. Godsey, C., H. Zhang, C. Medlin, R. Hunger, J. Damicone, T. Royer, J. Edwards, J. Banks, R. Kochenower, G. Scott, J. Ford, M. Smolen, R. Taylor, M. Shrock, R. Wolf and F. Epplin

- American Society of Agronomy 2005 Educational Materials Award for the Wheat Production Newsletter
- 2004 Dale Bumpers Scholar, University of Arkansas Dale Bumpers College of Agricultural, Food, and Life Sciences
- 2004 Outstanding Ph.D. student, University of Arkansas Department of Crop, Soil, and Environmental Sciences
- 2003 American Society of Agronomy Harry J. Larsen/Hydro Memorial Scholarship for Meritorious Graduate Students in Practical Soil Fertility and Crop Production
- 2000 Outstanding M.S. student, University of Arkansas Department of Crop, Soil, and Environmental Sciences
- Second high individual and member of first place team, 2000 Southern Weed Science Society Annual Weed Contest.
- 1996-2000 Kentucky Certified Crop Advisor
- American FFA Degree, 1992
- 1996 – Present, Class A Commercial Driver’s License

Technology Transfer:

Co-inventor of twelve wheat varieties generating over \$3M in intellectual property revenue for Oklahoma State University

Teaching

- PLNT 2041 – Professional development - Topics covered include professionalism, resume preparation, interview skills, career path, and dining etiquette. Fall semesters 2009 and 2015 – 2022
- PLNT 4123 / 5123 Plant Environment Interactions – spring semesters 2012 – 2014
- PLNT 4013 - Introduction to Weed Science Lab - fall 2010
- Supervision of an undergraduate research project that resulted in a second-place student poster at the ASA-CSSA-SSSA annual meetings

Graduate Student Advisement

- Member of several advisory committees
- Major advisor for thesis or dissertation
 - Romulo Lollato – PhD 2015 – associate professor and wheat and alfalfa extension specialist at Kansas State University
 - Giovanna Cruppe – MS 2015 – assistant research professor in plant pathology at Kansas State University
 - Alex Barrerio – PhD 2014 – research scientist with The Climate Corporation
 - Muaid Ali – PhD 2013 – acting dean of Agriculture and Marshes, Thi-Qar University, Iraq
 - Romulo Lollato – MS 2012 - associate professor and wheat and alfalfa extension specialist at Kansas State University
 - Casey Andrews – MS 2011 – agronomist with John Deere

- Dillon Butchee – MS 2011 – independent agronomist and insurance agent, Altus, Oklahoma
- Silvano Abreu – PhD 2011 - deceased
- Roji Manandhar – MS 2008 – postdoctoral researcher, USDA-ARS, New Orleans

Research Publications (93 total)

Book Chapters

J. Edwards. 2009. Systems-based wheat management strategies. p. 75-87. *In* B.F. Carver (ed.) *Wheat: Science and Trade*. Wiley-Blackwell, Ames, IA

Refereed Journal Articles (*served as major advisor for student)

1. Marburger, D., A. de Oliveira Silva, R. Hunger, J. Edwards, L. Van der Laan, A. Blakey, C-C. Kan, K. Garland-Campbell, R. Bowden, L. Yan, M. Tilley, M. Chen, Y. Chen, G. Bai, Y. Jin, J. Kolmer, B. Seabourn, G. Davila-El Rassi, P. Rayas-Duarte, R. Kerr, and B. Carver. 2021. Gallagher and Iba hard red winter wheat: Half-sibs inseparable by yield gain, separable by producer preference. *J. Plant Reg.* DOI 10.1002/plr2.20116
2. ShalekBriski, A., W. Brorsen, J. Rogers, J. Biermacher, D. Marburger, and J. Edwards. 2020. Design of the rainfall index annual forage program. *Agric. Fin. Rev.* DOI 10.1108/AFR-11-2019-0120
3. L. Munaro, T. Hefley, E. De Wolf, S. Haley, A. Fritz, G. Zhang, L. Haag, A. Schlegel, J. Edwards, D. Marburger, P. Alderman, S. Jones, J. Johnson, J. Lingenfelter, S. Trevisoli. and R. Lollato. 2020. Exploring long-term variety performance trials to improve genotype, management, and environment recommendations: a case-study of winter wheat. *Field Crops Res.* 255: <https://doi.org/10.1016/j.fcr.2020.107848>
4. *Lollato, R. T. Ochsner, D. Arnall, T. Griffin, and J. Edwards. 2019. From field experiments to regional forecasts: upscaling wheat grain and forage yield response to acidic soils. *Agron. J.* 111:287-302
5. *Cruppe, G., J. Edwards, and *R. Lollato. 2017. In-season canopy reflectance can aid fungicide and late-season nitrogen decisions on winter wheat. *Agron. J.* doi:10.2134/agronj2016.12.0720
6. *Lollato, R., J. Edwards, and T. Ochsner. 2017. Meteorological limits to winter wheat productivity in the U.S. southern Great Plains. *Field Crops Res.* 203:212-226
7. *Lollato, R. A. Patrignani, T. Ochsner, and J. Edwards. 2016. Prediction of plant available water at sowing for winter wheat in the southern Great Plains. *Agron. J.* 108:745-757
8. Wiersma, J., J. Dai, B. Bean, B. Brown, W. Bruening, J. Edwards, M. Flowers, R. Karow, S. Lee, G. Morgan, M. Ottman, and J. Ransom. 2016. Harvest index and straw yield of five US classes of wheat. *Biomass and Bioenergy* 85:223-227
9. Carver, B., C. Smith, W. Chuang, R. Hunger, J. Edwards, L. Yan, G. Guedira, B. Gill, G. Bai, and R. Bowden. 2016. Registration of OK053123, a high yielding hard winter wheat donor of *Cmc4* for wheat curl mite resistance. *J. Plant Reg.* 10:75-79
10. *Lollato, R. and J. Edwards. 2015. Maximum attainable wheat yield and resource used efficiency in the southern Great Plains. *Crop Sci.* 55:2863-2876

11. Patrignani, A., *R. Lollato, T. Ochsner, C. Godsey, and J. Edwards. 2014. Yield gap and production gap of rainfed winter wheat in the southern Great Plains. *Agron. J.* 106:1329-1339
12. Ali, M., A. Sutradhar, M Edano, J. Edwards, and K. Girma. 2014. Response of winter wheat grain yield and phosphorous uptake to foliar phosphite fertilization. *International J. Agron.* V. 2014 article ID 801626
13. Thompson, N., F. Epplin, J. Edwards, and R. Hunger. 2014. Economics of foliar fungicides for hard red winter wheat in the USA southern Great Plains. *Crop Prot.* 59:1-6
14. DeVuyst, E., J. Edwards, R. Hunger, and L. Weaver. 2014. Insecticide and fungicide wheat seed treatment improves wheat grain yield in the U.S. Southern Plains. *Crop Management* doi:10.2134/CM-2013-0039-RS
15. *Lollato, R., J. Edwards, and H. Zhang. 2013. Effect of alternative soil acidity amelioration strategies on soil pH distribution and wheat agronomic response. *Soil Sci. Soc. Am. J.* 77:1831-1841
16. Hunger, R., J. Edwards, R. Bowden, L. Yan, P. Rayas-Duarte, G. Bai, G. Horn, J. Kolmer, K. Giles, M. Chen, Y. Jin, R. Osburn, M. Bayles, B. Seabourn, A. Klatt, and B. Carver. 2013. Billings wheat combines early maturity, disease resistance, and desirable grain quality for the southern Great Plains, USA. *J. Plant Reg.* doi:10.3198/jpr2012.11.0053crc
17. *Butchee, D., and J. Edwards. 2013. Effect of simulated cattle grazing and wheat growth habit on dual-purpose wheat grain yield. *Crop Sci.* 53:1686-1692
18. Varner, B., F. Epplin, D. Doye, R. Shatzer, and J. Edwards. 2012. Pasture rental rates for fall-winter grazing of winter wheat. *J. Amer. Soc. Farm Man. Rural Appraisers* 75:112-113
19. Patrignani, A., C. Godsey, T. Ochsner, and J. Edwards. 2012. Soil water dynamics of conventional and no-till wheat in the Southern Great Plains. *Soil Sci. Soc. America J.* doi: 10.2136/sssaj2012.0082
20. *Lollato, R.P., M.A. Lollato, and J. Edwards. 2012. Soil organic carbon replenishment through long-term no-till on a Brazilian family farm. *J. Soil Water Conserv.* 67:70-71. doi:10.2489/jswc.67.3.70A
21. Zhang, X.-C., H. Zhang, and J. Edwards. 2012. Variable environment and market affect optimal nitrogen management in wheat and cattle production systems. *Agron. J.* 104:1136-1148
22. Edwards, J., R. Hunger, and M Payton. 2012. Response of hard red winter wheat to foliar fungicide in the southern Plains is environment dependent. Online. *Crop Management:* doi: 10.1094/CM-2012-0730-01-RS
23. Ries, L., L. Purcell, T. Carter Jr., J. Edwards, and C. King. 2012. Physiological traits contributing to differential canopy wilting in soybean under drought. *Crop Sci.* 52:272-281
24. Edwards, J., R. Hunger, E.L. Smith, G.W. Horn, M.S. Chen, L. Yan, G. Bai, R.L. Bowden, P. Rayas-Duarte, R.A. Osburn, J.A. Kolmer, Y. Jin, D.R. Porter, K.L. Giles, B.W. Seabourn, M.B. Bayles, and B.F. Carver. 2011. 'Duster' wheat: A durable, dual-purpose cultivar adapted to the Southern Great Plains of the USA. *J. Plant Reg.* 6:37-48 doi:10.3198/jpr2011.04.0195crc
25. Edwards, J., B. Carver, G. Horn, and M. Payton. 2011. Impact of dual-purpose management on wheat grain yield. *Crop Sci.* 51:2181-2185

26. Vitale, J., C. Godsey, J. Edwards, and R. Taylor. 2011. The adoption of conservation tillage practices in Oklahoma: Findings of a producer survey. *J. Soil Water Conserv.* 66:250-254
27. *Abreu, S., C. Godsey, J. Edwards and J. Warren. 2011. Assessing carbon and nitrogen stocks of no-till systems in Oklahoma. *Soil Till. Res.* 117:28-33 doi:10.1016/j.still.2011.08.004
28. MacKown, C., B. Carver, and J. Edwards. 2011. Variation in crude protein and initial in vitro dry matter digestibility of wheat forage. *Crop Sci.* 51:878-891
29. Septiano, W., N. Dunford, M. Wilkins and J. Edwards. 2010. Ethanol production from winter hullless barley. *Biol. Engineer.* 2(4):211-219
30. Edwards, J., C. Godsey, and M. Payton. 2010. Tillage affects wheat forage yield in dual-purpose systems but not grain yield. *Crop Management* doi:10.1094/CM-2010-1105-01-RS
31. Dunford, N., and J. Edwards. 2009. Nutritional bioactive compounds of wheat straw as affected by genotype and environment. *Bioresour. Technol.* (2009), doi:10.1016/j.biortech.2009.08.09
32. Edwards, J., B. Arnall, and H. Zhang. 2009. Nitrogen fertilizer timing and source affect hard red winter wheat yield, but application method does not. *Crop Management*doi:10-1094/CM-2009-0511-01-RS
33. Chen, Y., N. Dunford, J. Edwards, B. Carver, and C. Goad. 2009. Genotype and environment affect phytosterol content and composition of wheat. *J. Cereal Chem.* 86:96-99
34. Chen, Y., N. Dunford, J. Edwards, B. Carver, and C. Goad. 2008. Policosanol content and composition of wheat varieties as affected by environment. *J. Agric. Food Chem.* 89:310-314
35. Zhang, X., L.A. Hunt, W. Phillips, G. Horn, J. Edwards, and H. Zhang. 2008. A wheat grazing model for simulating grain and beef production: part II-Model validation. *Agron. J.* 100:1248-1258
36. MacKown, C., B. Carver, and J. Edwards. 2008. Occurrence of condensed tannins in wheat and feasibility for reducing pasture bloat. *Crop Sci.* 48:2470-2480
37. Carver, B., R. Hunger, J. Edwards, P. Rayas-Duarte, A. Klatt, D. Porter, B. Seabourn, G. Bai, F. Dowell, L Yan, and B. Martin. 2007. Registration of 'Guymon' wheat. *J. Plant Reg.* 2:33-35
38. Fieser, B., G. Horn, and J. Edwards. 2007. Effects of energy and/or mineral supplementation in combination with monensin on performance of steers grazing winter wheat pasture. *J. Anim. Sci.* 85:3470-3480
39. Edwards, J., B. Carver, and M. Payton. 2007. Relationship of first hollow stem and heading in wheat. *Crop Sci.* 47:2074-2077
40. Carver, B., R. Hunger, J. Edwards, D. Porter, T. Peeper, B. Seabourn, P. Rayas-Duarte, A. Klatt, and B. Martin. 2007. Registration of 'Okfield' wheat. *J. Plant Reg.* 1:102-103
41. Kariuki, S., H. Zhang, J. Schroder, J. Edwards, M. Payton, B. Carver, W. Raun, and E. Krenzer. 2007. Hard red winter wheat cultivar responses to pH and aluminum concentration gradient. *Agron. J.* 99:88-98
42. Purcell, L., J. Edwards, and K. Brye. 2007. Soybean yield and biomass responses to cumulative transpiration: questioning widely-held beliefs. *Field Crops Res.* 101:10-18
43. Fieser, B., G. Horn, J. Edwards, and E. Krenzer, Jr. 2006. Timing of grazing termination in dual-purpose winter wheat enterprises. *Prof. Anim. Sci.* 22:210-216

44. Carver, B., R. Hunger, A. Klatt, J. Edwards, W. Worrall, D. Porter, P. Rayas-Duarte, B. Seabourn, G Bai, F. Dowell, and B. Martin. 2006. Registration of 'OK Bullet' wheat. *Crop Sci.* 46:2322-2323
45. Carver, B., R. Hunger, E. Smith, A. Klatt, J. Edwards, D. Porter, P. Rayas-Duarte, J. Verchot-Lubicz, B. Martin, E. Krenzer, and B. Seabourn. 2006. Registration of 'Endurance' wheat. *Crop Sci.* 46:1816-1817
46. Carver, B., R. Hunger, E. Smith, A. Klatt, J. Edwards, D. Porter, P. Rayas-Duarte, J. Verchot-Lubicz, B. Martin, E. Krenzer, and B. Seabourn. 2006. Registration of 'Deliver' wheat. *Crop Sci.* 46:1819-1820
47. Popp, M., J. Edwards, L. Purcell, and P. Manning. 2006. Profit-maximizing seeding rates and reseeding thresholds for soybean: Maturity group interactions in the mid-South. *Ag. Systems* 91:211-228
48. Popp, M., J. Edwards, L. Purcell, and P. Manning. 2006. Plant population density and maturity effects on profitability of short-season maize production in the Mid-Southern U.S. *Agron. J.* 98:760-765
49. Edwards, J., and E. Krenzer, Jr. 2006. Quality of farmer-saved seed is variable in the southern Great Plains. *Crop Management* doi:10.1094/CM-2006-0531-01-RS
50. Edwards, J., and L. Purcell. 2005. Soybean yield and biomass responses to increasing plant population among diverse maturity groups: I. Agronomic characteristics. *Crop Sci.* 45:1770-1777
51. Edwards, J., L. Purcell, and D. Karcher. 2005. Soybean yield and biomass responses to increasing plant population among diverse maturity groups: II. Light interception and utilization. *Crop Sci.* 45:1778-1785
52. Edwards, J., L. Purcell, and E. Vories. 2005. Light interception and yield potential of short-season maize (*Zea mays*) hybrids in a narrow-row production system in the Midsouth. *Agron. J.* 97:225-234
53. Edwards, J., and L. Purcell. 2005. Light interception and yield response of ultra-short-season soybean to diphenylether herbicides in the Midsouthern United States. *Weed Technol.* 19:168-175
54. Edwards, J., and L. Oliver. 2004. Emergence and growth of Trumpetcreeper (*Campsis radicans*) as affected by rootstock size and planting depth. *Weed Technol.* 18:816-819
55. Popp, M., J. Edwards, L. Purcell, and P. Manning. 2004. Early-maturity soybean in a late-maturity environment: Economic considerations. *Agron. J.* 96:1711-1718
56. Edwards, J., and L. Oliver. 2004. Trumpetcreeper (*Campsis radicans*) can be controlled by herbicide application in soybean. *Crop Management* doi:10.1094/CM-2004-0323-01-RS
57. Edwards, J., L. Purcell, E. Vories, J. Shannon, and L. Ashlock. 2003. Short-season soybean cultivars have similar yields with less irrigation than longer-season cultivars. *Crop Management* doi:10.1094/CM-2003-0922-01-RS

Other Refereed Publications

1. Hunger, R., N. Gratchet, B. Olson, R. Walker, and J. Edwards. 2016. Use of foliar fungicides to manage powdery mildew and leaf rust on winter wheat in Oklahoma, 2015. 2015 Plant Disease Management Reports 10:CF038

2. Hunger, R., G Cruppe, J. Edwards, and N. Gratchet. 2016. Evaluation of seed treatments for effect on multiple agronomic components of hard red winter wheat in Oklahoma, 2015. 2015 Plant Disease Management Reports 10:CF035
3. Hunger, R., N. Gratchet, B. Olson, R. Walker, and J. Edwards. 2015. Effect of foliar fungicides on winter wheat in the absence of disease in Oklahoma 2014 Plant Disease Management Reports 9:CF019
4. Hunger, R., N. Gratchet, B. Olson, R. Walker, and J. Edwards. 2014. Control of powdery mildew on winter wheat in Oklahoma 2013. Plant Disease Management Reports 8:CF020
5. Hunger, R., N. Gratchet, B. Olson, R. Walker, and J. Edwards. 2014. Control of powdery mildew and leaf rust on winter wheat in Oklahoma 2013. Plant Disease Management Reports 8:CF020
6. Hunger, R., Olson, B.R., Walker, R., and Edwards, J. 2013. Control of powdery mildew and leaf rust on winter wheat in Oklahoma, 2012. Plant Disease Management Reports 7:CF020
7. Hunger, R., B. Olson, R. Walker, and J. Edwards. 2012. Control of powdery mildew and leaf rust in irrigated hard red winter wheat in Oklahoma 2011. Plant Disease Management Reports doi:10.1094/PDMR06
8. Hunger, R., B. Olson, R. Walker, and J. Edwards. 2011. Control of powdery mildew and leaf rust in irrigated hard red winter wheat in Oklahoma 2010. Plant Disease Management Reports doi:10.1094/PDMR05
9. Hunger, R., K. Kader, R. Walker, and J. Edwards. 2010. Control of powdery mildew and leaf rust in irrigated hard red winter wheat in Oklahoma 2009. Plant Disease Management Reports doi:10.1094/PDMR04
10. Hunger, R., K. Kader, J. Edwards, and R. Walker. 2009. Control of powdery mildew and leaf rust in dryland hard red winter wheat in Oklahoma 2008. Plant Disease Management Reports doi:10.1094/PDMR03
11. Hunger, R., K. Kader, J. Edwards, and R. Walker. 2008. Effect of fungicides on foliar diseases, yield, and test weight of hard red winter wheat, 2007. Plant Disease Management Reports 2 doi:10.1094/PDMR02
12. Edwards, J., R. Kochenower, R. Austin, B. Carver, and R. Hunger. 2005. Oklahoma wheat variety performance tests. Crop Management

Research Reports

1. Carver, B., J. Edwards, R. Hunger, A. Klatt, K. Giles, T. Royer, C. Penn, P. Rayas-Duarte, and L. Yan. 2014. Partners in Progress Wheat Research at OSU 2013. Okla. Agric. Exp. Stn. Rep. P-1039
2. Carver, B., J. Edwards, R. Hunger, A. Klatt, K. Giles, T. Royer, C. Penn, P. Rayas-Duarte, and L. Yan. 2013. Partners in Progress Wheat Research at OSU 2012. Okla. Agric. Exp. Stn. Rep. P-1039
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102. Purcell, L.C., J.G. Shannon, E. Vories, J. Edwards and R. Ball. 2001. Soybean drought avoidance in the Northern Mississippi delta using very early maturity cultivars. MO Delta Center Field Day Report pp. 14-16

Selected Grants and Grant Applications

- External grants awarded to date
 - PI - \$1,411,791
 - Co-PI \$6,912,865
- USDA NIFA Equipment Grants Program – Increasing climate-focused research capabilities at the University of Arkansas with a shared-use Conviron PGW40 growth chamber. \$172,000 – Not funded.
- NRCS CIG – 2014. Co-PI - On farm soil health management systems demonstration program for the southern Plains. Funded for three years. \$872,136
- USDA AFRI CAP Regional Approaches for adaptation to and mitigation of climate variability - 2013. Co-PI – Resilience and vulnerability of beef cattle production in the Southern Great Plains under changing climate, land use and markets. Funded for five years. \$420,187 dept. funding; \$9,567,331 total funding
- NRCS Conservation Innovation Grants (CIG) – 2012. PI – Systems-based cropping 2.0: leveraging soil health demonstrations through web-based tools. \$300,690 funded for three years
- NRCS CIG– 2008. PI- An innovative approach to conservation and integrated pest management in Oklahoma Cropping Systems. \$225,731 federal funds (\$451,464 total) funded for three years
- USDA-NRI Managed Ecosystems Program – 2006. Co-PI - Impact of tillage on soil characteristics and sustainability of winter-annual pasture systems. \$499,496 funded for three years.