

Jordan M. Shockley, Ph.D.

Extension Professor – University of Kentucky
410 Charles E. Barnhart Bldg., Lexington, KY 40546

Office: (859) 218-4391

Email: jordan.shockley@uky.edu

EXPERIENCE

07/2025-Present	Extension Professor, University of Kentucky , Department of Agricultural Economics, DOE (average) 90% Extension/Service, 10% Teaching
07/2025-Present	Extension Coordinator, University of Kentucky , Department of Agricultural Economics
07/2020-7/2025	Associate Extension Professor, University of Kentucky , Department of Agricultural Economics, DOE (average) 90% Extension/Service, 10% Teaching
07/2015-07/2020	Assistant Extension Professor, University of Kentucky , Department of Agricultural Economics, DOE (average) 90% Extension/10% Teaching
08/2011-04/2015	Agricultural Economics Analyst: Global Licensing and Business Development , BP Biofuels North America, LLC.
05/2010-08/2011	Post-Doctoral Scholar, University of Kentucky , Department of Agricultural Economics
08/2010-12/2010	Teaching Assistant, University of Kentucky , Department of Agricultural Economics
08/2007-05/2010	Ph.D. Research Assistant, University of Kentucky , Department of Agricultural Economics
08/2005-05/2007	M.S. Research Assistant, University of Kentucky , Department of Agricultural Economics

EDUCATION

05/2010	Ph.D., University of Kentucky , Lexington, KY, in Agricultural Economics, Chair: Carl Dillon Dissertation: Whole farm modeling of precision agricultural technologies.
05/2007	M.S., University of Kentucky , Lexington, KY, in Agricultural Economics, Chair: Sayed Saghaian Thesis: A logit analysis of precision agriculture adoption in Kentucky.
05/2005	B.A., University of Kentucky , Lexington, KY, in Mathematical Economics

EXPERTISE

Carbon Markets, Grain Management Strategies for Improved Profitability, Precision Agriculture Economics, Poultry Economics, General Farm Management and Farm Finance

AWARDS

- 2025 Outstanding Specialist Award from the Kentucky Association of County Agricultural Agents
- 2025 Honorary County Agent Award from the Kentucky Association of County Agricultural Agents
- 2024-2025 LEAD21 Class 20 Graduate
- 2025 Southern Agricultural Economics Association (SAEA) Outstanding Extension Program Award
- 2020 Southern Agricultural Economics Association (SAEA) Extension Program Team Award
- 2019 Outstanding New Extension Faculty Award from the Kentucky Association of State Extension Professionals (less than 5 years of service in Cooperative Extension)
- 2018 Gold Quill Award for top journal article from the American Society of Farm Managers and Rural Appraisers

EXTENSION PUBLICATIONS

(* denotes graduate student)

Refereed (Numbered) Extension Publications and Decision Tools

1. Gardner, G., **J.M. Shockley**, G. Halich. "Chapter 9: Economics of Winter Wheat Production and Marketing in Kentucky" in A Comprehensive Guide to Wheat Management in Kentucky. ID-125. Update Submitted.
2. **Shockley, J.M.**, T.D. Lashmet, and C. Matzke. "What is ESG and Why Do Companies Care?" AEC 25-03. 3-31-25. [PDF](#).
3. **Shockley, J.M.**, J. Muller, and J. Grove. "Why are Carbon Markets Focused on Agriculture and Natural Resources?" AEC-25-02. 3-13-2025. [PDF](#).
4. **Shockley, J.M.**, T.D. Lashmet, and C. Matzke. "Navigating Carbon Strategies: Understanding Offsets and Insets in Agriculture." AEC 25-01. 2-13-25. [PDF](#).
5. **Shockley, J.M.** and J. Muller. "Carbon Market Basics." AEC 23-01. August 7, 2023. [PDF](#).
6. Halich, G. and **J.M. Shockley**. "Chapter 12: Economics of Corn Production in Kentucky" in A Comprehensive Guide to Corn Management. ID-139. December 2022. [PDF](#).
7. **Shockley, J.M.**, E. Ritchey, and J. McGrath. "Economic Value of Poultry Litter Tool: Grain Crops." Updated AEC 2016-13. August, 2021. [Excel](#).
8. **Shockley, J.M.** and Joleen Hadrach. "Purchasing and Leasing Farm Equipment". In: Ag Lease 101. Updated North Central Farm Management Committee NCFMC-05. January 2021.
9. R. Ellis*, **Shockley, J.M.**, and J. Shepard*. "Estimating the Economic Depreciation of Farm Assets" AEC 2021-01. January 2021. [PDF](#).
10. **Shockley, J.M.** "Economic Costs for Baling Wheat Straw" AEC 2018-10. April, 2019. [Excel](#).
11. Butler, A.*, **J.M. Shockley**, S. McNeill, and T. Davis. "Post-Harvest Management: The Economics of Grain Drying." AEC 2018-1. April 2018. [PDF](#).
12. Halich, G. and **J.M. Shockley**. "Chapter 9: Economics of Production" in Comprehensive Soybean Management Guide. ID-249. May 2018. [PDF](#).

13. Williams, B., A. Smith, and **J.M. Shockley** “Things to Consider When Trying to Weather the Storm.” In: Surviving the Farm Economy Downturn by the Southern Extension Committee. Southern Extension Risk Management Education Center and USDA-NIFA Publication Series. December 2017. [PDF](#).
14. **Shockley, J.M.** and T. Mark. “Days Suitable for Fieldwork in Kentucky.” AEC-101 August 2017. [PDF](#).
15. **Shockley, J.M.** “Post-Harvest Management: The Economics of Grain Transportation.” AEC-100 October 2016. [PDF](#).
16. **Shockley, J.M.**, E. Ritchey, and J. McGrath. “Economic Value of Poultry Litter Tool: Pasture, Hay, and Silage.” AEC 2016-14. August 2016. [Excel](#).
17. **Shockley, J.M.**, E. Ritchey, and J. McGrath. “Economic Value of Poultry Litter Tool: Grain Crops.” AEC 2016-13. July 2016. [Excel](#).
18. **Shockley, J.M.**, S. McNeill, and J. Dvorak. “Grain Hauling Decision Guide.” AEC 2016-11. April 2016. [Excel](#).
19. Halich, G., **J.M. Shockley**, S. Kindred, and K. Pulliam. “Kentucky ANR Agent Land Value and Cash Rent Survey.” AEC 2015-20. February 2016.

Digital Extension Publications and Decision Tools

1. **Shockley, J.M.** and T. Dowell Lashmet. “Risk Management Strategies for the Evolution of Carbon Markets.” Under review
2. Lashmet, Tiffany Dowell, **J.M Shockley**, C. Matzke. “How to Find an Agricultural Lawyer.” AGECE-PU-199. May 2025. [PDF](#).
3. Lashmet, Tiffany Dowell, **J.M Shockley**, C. Matzke. “Key Legal Considerations for a Carbon-Related Agreement.” AGECE-PU-197. April 2025. [PDF](#).
4. **Shockley, J.M.** “Economic Resources for Improved Decision-Making” Updated January, 2022. [PDF](#).
5. **Shockley, J.M** and Morgan Waldner. “2021 Mobile Apps in Agricultural Economics”. April 2021. [PDF](#).
6. **Shockley, J.M** and Morgan Waldner. “2021 Mobile Apps in Agricultural Economics - Summary”. April 2021. [PDF](#).
7. **Shockley, J.M.** and R. Ellis*. “Economic Costs for Establishing and Terminating Cover Crops.” June, 2019. [Excel](#).
8. Shepherd, J.*, **J.M. Shockley**, T. Davis, G. Halich, A. Davis, S. Isaacs, J. Pierce, S. Bowker, and K. Burdine. “Resources Available to Farmers Struggling with Farm Financial Stress.” April, 2019. [PDF](#).
9. Dvorak, J., **J.M. Shockley**, R. Mason, and S. McNeil. “Best Bean Buyer” Mobile App. Available on Android and Apple devices. Updated September 1, 2018.
10. **Shockley, J.M.** “Mobile Apps in Agricultural Economics”. November, 2017.
11. **Shockley, J.M.** “Mobile Apps in Agricultural Economics - Summary”. November, 2017.
12. **Shockley, J.M.** “Best Bean Buyer App Tutorial” YouTube Video 8:44. Published by UK College of Agriculture, Food, and Environment on October, 2017. [Video](#).
13. Dvorak, J., **J.M. Shockley**, R. Mason, and S. McNeil. “Best Bean Buyer” Mobile App. Available on Android and Apple devices. Original Released September, 2017.
14. **Shockley, J.M.** “Economic Resources for Improved Decision-Making” July, 2017.
15. **Shockley, J.M.** “Kentucky Grain Markets Map” July, 2016. [Map](#).

16. Halich, G. and **J.M. Shockley**. "Sorghum-Corn Comparison Budget 2016" April 2016. [Excel](#).

Peer Reviewed Popular Press Publications

1. **Shockley, J.M.** and S. Klose. "Working with Your Ag Lender." *Southern Ag Today*. June 2, 2025. [Link](#)
2. **Shockley, J.M.** and S. Klose. "Managing Through Tough Times." *Southern Ag Today*. February 17, 2025. [Link](#)
3. **Shockley, J.M.** and G. Gardner. "Management and Marketing Implications of Deforestation-Free Soybeans in the Southern Region" *Southern Ag Today*. May 22, 2024. [Link](#).
4. **Shockley, J.M.** "Mobile Apps in Farm Management" *Southern Ag Today*. May 3, 2023. [Link](#).
5. **Shockley, J.M.** "Summary of High Path Avian Influenza in 2022" *Southern Ag Today*. January 4, 2023. [Link](#).
6. **Shockley, J.M.** "Fall vs Spring Application of Broiler Litter" *Southern Ag Today*. November 23, 2022. [Link](#).
7. **Shockley, J.M.** "Carbon Program Opportunities for Woodland Owners in the Southeast" *Southern Ag Today*. October 5, 2022. [Link](#).
8. Ellis, Robert* and **J.M. Shockley**. "Economic vs Tax Depreciation: Understanding which to use for Determining Farm Profitability" *Southern Ag Today*. September 14, 2022. [Link](#).
9. **Shockley, J.M.** "On-Farm Cost of Contracting High Path Avian Influenza in a Commercial Broiler Flock" *Southern Ag Today*. April 13, 2022. [Link](#).
10. **Shockley, J.M.** "What is the Current Value of Broiler Litter?" *Southern Ag Today* 2(8.3). February 16, 2022. [Link](#).
11. **Shockley, J.M.** "Adopting Farm Management Practices for Carbon Credit Payments" *Southern Ag Today*. October 13, 2021. [Link](#).

Newsletters and Trade Publications

1. Shepherd, J. and **J.M Shockley**. "Into the Woods: The Tax Uncertainty of Carbon Contracts." *Economic and Policy Update* (25):4, Department of Agricultural Economics, University of Kentucky, April 30, 2025. [PDF](#).
2. **Shockley, J.M.** "Maximizing Value: 2025 Spring Application of Broiler Litter for Grain Crop Production." (Updated) *Economic and Policy Update* (25):3, Department of Agricultural Economics, University of Kentucky, March 31st, 2025. [PDF](#).
3. **Shockley, J.M.** "The Economic Value of Applying Broiler Litter in the Fall 2024." (Updated) *Economic and Policy Update* (24):11, Department of Agricultural Economics, University of Kentucky, November 25th, 2024. [PDF](#).
4. **Shockley, J.M.** "Understanding ESG and Its Impact on Agriculture." *Economic and Policy Update* (24):9, Department of Agricultural Economics, University of Kentucky, September 27, 2024. [PDF](#).
5. **Shockley, J.M.** "Navigating Carbon Strategies: Understanding Offsets and Insets in Agriculture." *Economic and Policy Update* (24):7, Department of Agricultural Economics, University of Kentucky, July 30, 2024. [PDF](#)

6. **Shockley, J.M.** and G. Gardner "ADM Requirements to Comply with New EU Regulations Impacting Kentucky Soybean Producers." *Economic and Policy Update* (24):5, Department of Agricultural Economics, University of Kentucky, May 24, 2024. [PDF](#).
7. **Shockley, J.M.** "Maximizing Value: 2024 Spring Application of Broiler Litter for Grain Crop Production." (Updated) *Economic and Policy Update* (24):3, Department of Agricultural Economics, University of Kentucky, March 28th, 2024. [PDF](#).
8. **Shockley, J.M.** "The Shift in Agricultural Carbon Markets." *Corn & Soybean News*, University of Kentucky Cooperative Extension, Volume 6, Issue 03, March 2024. [PDF](#).
9. **Shockley, J.M.** "The Economic Value of Applying Broiler Litter in the Fall 2023." (Updated) *Economic and Policy Update* (23):11, Department of Agricultural Economics, University of Kentucky, November 29th, 2023. [PDF](#).
10. **Shockley, J.M.** "Southern Ag Today: A Resource for Farmers and Policymakers in The Southern Region." *Economic and Policy Update* (23):9, Department of Agricultural Economics, University of Kentucky, September 29th, 2023. [PDF](#).
11. **Shockley, J.M.** "Current State of Carbon Market Policies." *Economic and Policy Update* (23):5, Department of Agricultural Economics, University of Kentucky, May 30th, 2023. [PDF](#).
12. **Shockley, J.M.** "Maximizing Value: 2023 Spring Application of Broiler Litter for Grain Crop Production." (Updated) *Economic and Policy Update* (23):3, Department of Agricultural Economics, University of Kentucky, March 30th, 2023. [PDF](#).
13. **Shockley, J.M.** "The Economic Value of Applying Broiler Litter in the Fall of 2022." (Updated) *Economic and Policy Update* (22):11, Department of Agricultural Economics, University of Kentucky, November 29th, 2022. [PDF](#).
14. **Shockley, J.M.** and J. Muller "Carbon Programs for Woodland Owners in Kentucky." *Economic and Policy Update* (22):9, Department of Agricultural Economics, University of Kentucky, September 29th, 2022. [PDF](#).
15. **Shockley, J.M.** "High Path Avian Influenza Update and the On-Farm Financial Impacts from an Outbreak." *Economic and Policy Update* (22):6, Department of Agricultural Economics, University of Kentucky, June 30th, 2022. [PDF](#).
16. **Shockley, J.M.** "What is the Driving Force behind Carbon Programs in the U.S. and Why Agriculture?" *Economic and Policy Update* (22):4, Department of Agricultural Economics, University of Kentucky, April 28th, 2022. [PDF](#).
17. **Shockley, J.M.** "Maximizing Value: 2022 Spring Application of Broiler Litter for Grain Crop Production." (Updated) *Economic and Policy Update* (22):3, Department of Agricultural Economics, University of Kentucky, March 31st, 2022. [PDF](#).
18. **Shockley, J.M.** "Economic Value of Applying Broiler Litter in the Fall | 2021." (Updated) *Economic and Policy Update* (21):11, Department of Agricultural Economics, University of Kentucky, November 23rd, 2021. [PDF](#).
19. **Shockley, J.M.** and M. Waldner. "'There's an App for That'." *Economic and Policy Update* (21):7, Department of Agricultural Economics, University of Kentucky, July 27th, 2021. [PDF](#).
20. **Shockley, J.M.** and W. Snell. "Carbon Markets 101." *Corn & Soybean News*, University of Kentucky Cooperative Extension, Volume 3:4, May 2021. [PDF](#).
21. **Shockley, J.M.** and W. Snell. "Carbon Markets 101." *Economic and Policy Update* (21):4, Department of Agricultural Economics, University of Kentucky, April 29, 2021. [PDF](#).

22. **Shockley, J.M.** “Maximizing Value: 2021 Spring Application of Broiler Litter for Grain Crop Production.” (Updated) *Economic and Policy Update* (21):3, Department of Agricultural Economics, University of Kentucky, March 30, 2021. [PDF](#).
23. **Shockley, J.M.** “Economics of Various Winter Wheat Management Strategies.” *Wheat Science Newsletter*, University of Kentucky Cooperative Extension Service, Volume 24;3, December 2020. [PDF](#).
24. **Shockley, J.M.** “The Economic Value of Applying Broiler Litter in the Fall.” (Updated) *Economic and Policy Update* (20):11, Department of Agricultural Economics, University of Kentucky, November 2020. [PDF](#).
25. **Shockley, J.M.** “Economics of Various Wheat Management Strategies.” *Economic and Policy Update* (20):9, Department of Agricultural Economics, University of Kentucky, September 2020. [PDF](#).
26. **Shockley, J.M.** “The Chicken or the Egg? The Untold Story During the Pandemic.” *Economic and Policy Update* (20):8, Department of Agricultural Economics, University of Kentucky, August 2020. [PDF](#).
27. **Shockley, J.M.** “COVID-19 Related Legislation: Labor, Families First Act, CARES Act.” *Economic and Policy Update* (20):4, Department of Agricultural Economics, University of Kentucky, April 2020. [PDF](#).
28. Rod, Katherine, C.A. Knott, C. Bradley, and **J.M. Shockley**. 2020. Can Agronomic Practices Reduce Fusarium Head Blight Vomitoxin Levels? *University of Kentucky Wheat Science Research Reports* Lexington, KY. [PDF](#).
29. **Shockley, J.M.** “The Economic Value of Applying Broiler Litter in the Fall.” (Updated) *Economic and Policy Update* (19):11, Department of Agricultural Economics, University of Kentucky, November 2019. [PDF](#).
30. **Shockley, J.M.**, L. Brislen, D.V. Sanford, B. Brady, K. Jacobson, L. Maynard. “Market Demand for Specialty Small Grains in Kentucky.” *Economic and Policy Update* (19):9, Department of Agricultural Economics, University of Kentucky, September 2019. [PDF](#).
31. **Shockley, J.M.** “Protecting Your Broiler Flock (And Wallet) From the Bird Flu.” *Economic and Policy Update* (19):8, Department of Agricultural Economics, University of Kentucky, August 2019. [PDF](#).
32. **Shockley, J.M.** and J. Shepard. “Depreciation: The Largest Check You’ll Never Write.” *Economic and Policy Update* (19):4, Department of Agricultural Economics, University of Kentucky, April 2019. [PDF](#).
33. **Shockley, J.M.** “Maximizing Value: Spring Application of Broiler Litter for Grain Crop Production.” (Updated) *Economic and Policy Update* (19):3, Department of Agricultural Economics, University of Kentucky, March 2019. [PDF](#).
34. **Shockley, J.M.** “The Economic Value of Applying Broiler Litter in the Fall.” (Updated) *Economic and Policy Update* (18):11, Department of Agricultural Economics, University of Kentucky, November 2018.
35. **Shockley, J.M.** “Soybean Delivery App for 2018.” *Economic and Policy Update* (18):9, Department of Agricultural Economics, University of Kentucky, September 2018.
36. **Shockley, J.M.** “The Future of Agricultural Machinery and the Economic Questions that Arise.” *Economic and Policy Update* (18):8, Department of Agricultural Economics, University of Kentucky, August 2018.

37. **Shockley, J.M.** “Maximizing Value: Spring Application of Broiler Litter for Grain Crop Production.” (Updated) *Economic and Policy Update* (18):4, Department of Agricultural Economics, University of Kentucky, April 2018.
38. **Shockley, J.M.** “Economics of Baling Wheat Straw.” *Wheat Science Newsletter*, University of Kentucky Cooperative Extension Service, Volume 22;1, April 2018. [PDF](#).
39. **Shockley, J.M.** “Economics of Baling Wheat Straw.” *Economic and Policy Update* (18):3, Department of Agricultural Economics, University of Kentucky, March 2018.
40. **Shockley, J.M.** “The Economic Value of Applying Broiler Litter in the Fall.” (Updated) *Economic and Policy Update* (17):11, Department of Agricultural Economics, University of Kentucky, November 2017.
41. **Shockley, J.M., J. Dvorak, R. Mason, S. McNeill.** “Soybean Delivery App Now Available.” *Economic and Policy Update* (17):10, Department of Agricultural Economics, University of Kentucky, October 2017.
42. **Shockley, J.M.** “Determining the Economic Cost for Drying and Storing Corn this Season.” *Economic and Policy Update* (17):8, Department of Agricultural Economics, University of Kentucky, August 2017.
43. **Shockley, J.M.** “Poultry Litter Application: Spring Value and Lessons Learned from the Delmarva and Ohio Valley.” (Updated) *Economic and Policy Update* (17):3, Department of Agricultural Economics, University of Kentucky, March 2017.
44. **Shockley, J.M.** 2016. Precision agriculture economics and decision making—beyond profitability. *Crops and Soils Magazine*. American Society of Agronomy. [DOI](#).
45. **Shockley, J.M.** “Grain Storage in Kentucky.” *Economic and Policy Update* (16):11, Department of Agricultural Economics, University of Kentucky, November 2016.
46. **Shockley, J.M.** “The Economic Value of Applying Poultry Litter in the Fall.” (Original) *Economic and Policy Update* (16):10, Department of Agricultural Economics, University of Kentucky, October 2016.
47. **Shockley, J.M.** “Kentucky Grain Markets Map.” *Economic and Policy Update* (16):7, Department of Agricultural Economics, University of Kentucky, July 2016.
48. **Shockley, J.M.** “Decision Tool for Hauling Grain to Market.” *Economic and Policy Update* (16):4, Department of Agricultural Economics, University of Kentucky, April 2016.
49. **Shockley, J.M.** “Determining the Economic Value of Poultry Litter.” *Cheeps & Chirps...Points for Poultry Profitability*, University of Kentucky and Kentucky Poultry Federations, Volume 9, Issue 1, March 2016.
50. **Shockley, J.M.** “Maximizing Value: Spring Application of Poultry Litter for Grain Crop Production.” (Original) *Economic and Policy Update* (16):3, Department of Agricultural Economics, University of Kentucky, March 2016.
51. Ritchey, E., J. McGrath, and **J.M. Shockley.** “How Does the Value of Poultry Litter Compare to Commercial Fertilizer?” *Forage News*, University of Kentucky Cooperative Extension Service, April 2016. [PDF](#).
52. **Shockley, J.M.** “Determining the Economic Value of Poultry Litter.” *Economic and Policy Update* (15):11, Department of Agricultural Economics, University of Kentucky, November 2015.
53. **Shockley, J.M.** “Dr. Jordan Shockley Joins the UK Department of Agricultural Economics.” *Economic and Policy Update* (15):8, Department of Agricultural Economics, University of Kentucky, August 2015.

Social Media, Podcasts, Television, Etc.

1. **Shockley, J.M.** 2025. Interview by Joanna Coles. *Farm and Home Show*. “Carbon Markets for Woodland Owners”. Recorded January 14, 2025.
2. **Shockley, J.M.** 2024. Podcast with Vikki Shadrick (Webster Co.), David Fourqurean (McLean Co.), and Jay Stone (Hopkins Co.). *KY Ag Matters Podcast*. “Carbon Credit Update”. September 9, 2024. [Podcast](#)
3. **Shockley, J.M.** 2024. Podcast with Ag Credit. *Beyond Agriculture*. ADM Deforestation Policy Discussion. August 26, 2024. [Podcast](#).
4. **Shockley, J.M.** 2024. Interview by Daniel Walton. *Freelance journalist*. Local Grain. June 6, 2024. *Civil Eats* [Article](#).
5. **Shockley, J.M.** 2024. Interview by Liam Niemeyer. *Kentucky Lantern*. Carbon Markets. February 2, 2024.
6. **Shockley, J.M.** 2023. Interview by Bianca Flowers. *Reuters*. Autonomous Machinery. October 12, 2023.
7. **Shockley, J.M.** 2023. Interview by Lane Nordlund. *Western Ag Network*. Carbon Markets. September 13, 2023.
8. **Shockley, J.M.** 2023. Podcast with David Cooper. *Progressive Cattle*. Carbon Markets. September 13, 2023. [Podcast](#).
9. **Shockley, J.M.** 2023. Podcast with Tiffany Dowell Lashmet. *Ag Law in the Field*. Carbon Markets. March 30, 2023. [Podcast](#).
10. **Shockley, J.M.** 2022. Interview by Meghan Grebner. *Brownfield Ag News*. Poultry Litter. December 8, 2022.
11. **Shockley, J.M.** 2022. Interview by Rae Wagner. *Kentucky Soybean Sentinel*. “Precision Ag and Drones”. October 28, 2022
12. **Shockley, J.M.** 2022. Podcast with Vikki Shadrick (Webster Co.), David Fourqurean (McLean Co.), and Jay Stone (Hopkins Co.). *KY Ag Matters Podcast*. “Precision Ag and Ag Tech Economics”. October 25, 2022. [Podcast](#).
13. **Shockley, J.M.** 2022. Interview by Joanna Coles. *Farm and Home Show*. “Economic Impact of HPAI”. Recorded July 12, 2022.
14. **Shockley, J.M.** 2022. Interview by Joanna Coles. *Farm and Home Show*. “General Farm Management Resources”. Recorded July 12, 2022.
15. **Shockley, J.M.** 2022. Interview by Tyler Jett. *Des Moines Register*. Autonomous machinery. April 5, 2022.
16. **Shockley, J.M.** 2022. Podcast with Vikki Shadrick (Webster Co.), David Fourqurean (McLean Co.), and Jay Stone (Hopkins Co.). *KY Ag Matters Podcast*. “Carbon Credit discussion with Dr. Jordan Shockley”. March 30, 2022. [Podcast](#).
17. **Shockley, J.M.** 2022. Podcast with Matt Adams (Hardin Co.), Whitney Carman (Grayson Co.), and Daniel Carpenter (LaRue Co.). *Dirt2Dollars Podcast*. “Managing High Input Costs”. March 23, 2022. [Podcast](#).
18. **Shockley, J.M.** 2021. Interview by Toni Riley. *Readers Digest*. Carbon Markets. August 12, 2021.
19. **Shockley, J.M.** and J. McGrath. 2021. Podcast with Matt Adams (Hardin Co.), Whitney Carman (Grayson Co.), and Daniel Carpenter (LaRue Co.). *Dirt2Dollars Podcast*. “Carbon Markets”. May 19, 2021. [Podcast](#).

20. **Shockley, J.M.**, D. Anderson, J. Benavidez, C. Martinez, A. Griffin. 2021. “Meat Market Minutes: Poultry” YouTube Video 13:02. Published by Agricultural & Resource Economics at the University of Tennessee Institute of Agriculture on March 26, 2021. [Video](#).
21. **Shockley, J.M.**, J. Maples, D. Anderson, J. Benavidez, C. Martinez, A. Griffin, J. Mitchell. 2020. “Meat Market Minutes: Poultry” YouTube Video 6:41. Published by Agricultural & Resource Economics at the University of Tennessee Institute of Agriculture on September 21, 2020. [Video](#).
22. **Shockley, J.M.** 2020. Podcast with Matt Adams (Hardin Co.), Whitney Carman (Grayson Co.), and Daniel Carpenter (LaRue Co.). *Dirt2Dollars Podcast*. “Machinery Costs”. July 10, 2020. [Podcast](#).
23. **Shockley, J.M.**, K. Burdine, J. Maples, D. Anderson, J. Benavidez, C. Martinez, A. Griffin. 2020. “Meat Market Minutes: Poultry” YouTube Video 13:33. Published by Agricultural & Resource Economics at the University of Tennessee Institute of Agriculture on May 10, 2020. [Video](#).
24. **Shockley, J.M.** 2020. Podcast with Paul Goeringer. *Maryland Risk Management Education Podcast*. “COVID-19 and Poultry Markets”. April 27, 2020. [Podcast](#).
25. **Shockley, J.M.** 2020. Interview by Janet Patton. *Lexington Herald-Leader*. “Meat is Still Scarce in Kentucky stores. And it won’t be Getting Any Better.” April 18, 2020.
26. Kantrovich, Adam, J.C. Hobbs, D. Farnsworth, **J.M. Shockley**, D. Anderson, C. Martinez, J. Jones. 2020. “COVID-19 Related Legislation: Labor, Families First Act, CARES Act.” YouTube Video 1:34:05. Published by the Southern Extension Economics Committee on April 17, 2020. [Video](#).
27. **Shockley, J.M.** 2020. Interview by Joanna Coles. *Farm and Home Show*. “Farm Management Strategies for Improved Decision-Making”. Recorded January 6, 2020.
28. **Shockley, J.M.** 2019. Interview by Gil Gullickson. *Successful Farming*. “How Automated Guidance Changed Farming” December 2, 2019. [Link](#).
29. **Shockley, J.M.** 2018. Interview by Stu Johnson. *WEKU Radio*. August 30, 2018.
30. **Shockley, J.M.**. “Economic Opportunities in Baling Wheat Straw” YouTube Video 12:27. Published by UK College of Agriculture, Food, and Environment on May 21, 2018. [Video](#).
31. **Shockley, J.M.** 2017. Interview by Mike Feldhaus. *Across Kentucky Radio*. Kentucky Farm Bureau. October 23, 2017. [Link](#).
32. **Shockley, J.M.** “UK Poultry Litter Forum” YouTube Video, 1:14:16. Posted by “Kentucky Soybean Board,” January 27, 2017. [Video](#).
33. **Shockley, J.M.** 2016. Interview by Camille Lambert. *AGLIFE*. Episode no. 209, first broadcast 8 April 2016. Executive producers are Brent Butler and Neil Kellen. [Video](#).
34. **Shockley, J.M.** 2016. Interview by Camille Lambert. *AGLIFE*. Episode no. 207, first broadcast 19 March 2016. Executive producers are Brent Butler and Neil Kellen. [Video](#).
35. **Shockley, J.M.** “Maximizing Value: Spring Application of Broiler Litter for Grain Crop Production” Web blog post. KyGrains.info, March 29, 2019.
36. **Shockley, J.M.** “Economics of Baling Wheat Straw” Web blog post. KyGrains.info March 27, 2018. (former Grain Crops Update)
37. **Shockley, J.M.** “Determining the Economic Cost for Drying and Storing Corn this Season” Web blog post. KyGrains.info August 25, 2017. (former Grain Crops Update)
38. **Shockley, J.M.** “Decision Tools for Hauling Grain to Market” Web blog post. *Grain Crops Update*. September 12, 2016.

Facebook (682 followers), X (511 followers), and LinkedIn (846 followers) account for providing information to stakeholders. July 1, 2025.

Cited in Popular Press by: The Delmarva Farmer, Farm Progress, WATTPoultry, Progressive Farmer, Successful Farmer, MidAmerica Farmer Grower MAFG, Kentucky Soybean Sentinel, AgWeb, AgFax, Morning Ag Clips, KYCorn Connection, Agriculture Outlook for The Paducah Sun, Kentucky New Era, Messenger-Inquirer, Oregon Seed Magazine, Southeast FarmPress, The Lane Report

EXTENSION PRESENTATIONS

Career Summary

Audience	Extension Presentations Delivered	Approximate Direct Contacts ¹
International	5	115
National/Regional	37	7,145
Kentucky	249	9,085

¹ Approximated based on the number of people attending extension presentations either in-person or virtually.

Updated July 1, 2025

International Extension Audiences

1. **Shockley, J.M.** “US Carbon Markets”, *Farmbrella and U.S. Department of Commerce-Denmark*, September 28, 2022: Virtual. Approximate Direct Contacts = 30.
2. **Shockley, J.M.** “Carbon Markets 101”, *Altria Group Employee Meeting*, February 22, 2022: Virtual. Approximate Direct Contacts = 10.
3. **Shockley, J.M.** “Carbon Markets 101.” *U.S. Department of Commerce – Global Agribusiness Team*, October 5, 2021: Virtual. Approximate Direct Contacts = 30.
4. **Shockley, J.M.** “Carbon Markets 101.” *USAID – RFS Private Sector Engagement Learning Series*, July 28, 2021: Virtual. Approximate Direct Contacts = 35.
5. **Shockley, J.M.** “Carbon Markets 101.” *USAID - Brownbag*, June 8, 2021: Virtual. Approximate Direct Contacts = 10.

National and Regional Extension Audience

1. **Shockley, J.M.** “Improving Profitability Through Machinery Management.” *Tennessee Master Farm Manager Program*, February 13, 2025: Virtual. Approximate Direct Contacts = 90.
2. **Shockley, J.M.** “The Economics of Biosecurity-How it Pays to do it.” *University of Maryland’s Grower Lunch Break Webinar*, February 13, 2025: Virtual. Approximate Direct Contacts = 100.
3. **Shockley, J.M.** “Overview of Carbon Markets in Agriculture.” *2024 Dairy West Annual Meeting*, November 14, 2024: Boise, ID. Approximate Direct Contacts = 200.
4. **Shockley, J.M.** “Harnessing the Wild West of Carbon Markets Panel Discussion” *2024 Dairy West Annual Meeting*, November 14, 2024: Boise, ID. Approximate Direct Contacts = 140.
5. **Shockley, J.M.** “The Economics of Biosecurity – How It Pays to Do It.” *PEAK 2024 – Midwest Poultry Federation Annual Conference*, April 17, 2024: Minneapolis, MN. Approximate Direct Contacts = 45.
6. **Shockley, J.M.** “Opportunities and Risks of Carbon Markets for Dairies” *Washington, Idaho, and Utah Workshop on Opportunities and Risks of Carbon Markets for Dairies*, March 28th, 2024: Twin Falls, ID. Approximate Direct Contacts = 35.

7. **Shockley, J.M.** “Opportunities and Risks of Carbon Markets for Dairies.” *Washington, Idaho, and Utah Workshop on Opportunities and Risks of Carbon Markets for Dairies*, March 27th, 2024: Boise, ID. Approximate Direct Contacts = 30.
8. **Shockley, J.M.** “Current Status of Carbon Programs for Row Crop Producers.” *Indiana CCA School*, December 19th, 2023: Indianapolis, IN. Approximate Direct Contacts = 475.
9. **Shockley, J.M.** “Current Status of Carbon Programs for Row Crop Producers.” *Kentuckiana*, November 28- November 29, 2023: French Lick, IN. Approximate Direct Contacts = 275.
10. **Shockley, J.M.** “Carbon Market Considerations for Livestock Producers.” *2023 National Red Angus Convention*, September 13th, 2023: Denver, CO. Approximate Direct Contacts = 300.
11. **Shockley, J.M.** “Precision Agriculture Economics and Decision Making – Beyond Profitability.” *2023 Conservation and Tillage Conference*, March 14, 2023: Ada, OH. Approximate Direct Contacts = 100.
12. **Shockley, J.M.** “Carbon Market Panel” *2023 Conservation and Tillage Conference*, March 14, 2023: Ada, OH. Approximate Direct Contacts = 150.
13. **Shockley, J.M.** “Carbon Market Considerations for Row Crop Producers.” *2023 Queen Anne Agronomy Day*, March 3, 2023: Centreville, MD. Approximate Direct Contacts = 150.
14. **Shockley, J.M.** “An Economic Perspective of U.S. Carbon Programs.” *2023 Kansas Ag Bankers Conference*, March 1, 2023: Manhattan, KS. Approximate Direct Contacts = 175.
15. **Shockley, J.M.** “Precision Agriculture Economics and Decision Making – Beyond Profitability.” *Alabama Precision Ag Workshop*, February 8, 2023: Virtual. Approximate Direct Contacts = 60.
16. **Shockley, J.M.** “Carbon Market Considerations for Farm Credit Mid-America.” *Farm Credit Mid-America Strategic Planning Session*, July 19th, 2022: Park City, UT. Approximate Direct Contacts = 40.
17. **Shockley, J.M.** “Precision Agriculture Considerations for Farm Credit Mid-America.” *Farm Credit Mid-America Strategic Planning Session*, July 19th, 2022: Park City, UT. Approximate Direct Contacts = 40.
18. **Shockley, J.M.** “Carbon Contracts: A Legal & Economic Overview.” *2022 Crop Insurance Professionals Association Spring Membership Meeting*, May 1-3, 2022: Kansas City, MO. Approximate Direct Contacts = 260.
19. **Shockley, J.M.** “Precision Agriculture Economics and Decision Making – Beyond Profitability.” *Utilizing Precision Ag Technology Workshop*, March 29th and 31st, 2022: Statesboro, GA and Albany, GA. Approximate Direct Contacts = 60.
20. **Shockley, J.M.** “Carbon Markets 101.” *Texas Ag Forum* January 2nd, 2022: Lubbock, TX. Approximate Direct Contacts = 125.
21. **Shockley, J.M.** “Precision Agriculture Economics and Decision Making – Beyond Profitability.” *Indiana CCA School*, December 15th, 2021: Indianapolis, IN. Approximate Direct Contacts = 450.
22. **Shockley, J.M.** “Carbon Markets 101.” *Mississippi Row Crop Short Course*” December 6-8, 2021: Starkville, MS. Approximate Direct Contacts = 820.
23. **Shockley, J.M.** “Using Precision Ag to Improve Input Management.” *Kentuckiana*, November 30- December 1, 2021: French Lick, IN. Approximate Direct Contacts = 160.
24. **Shockley, J.M.** “2021 Poultry Outlook.” *LMIC Industry Outlook Conference*, October 20, 2021: Virtual. Approximate Direct Contacts = 150.

25. **Shockley, J.M.** “Economic Consideration for Specialty Grain Production.” *The Colorado Grain School*, February 6, 2021: Virtual. Approximate Direct Contacts = 160.
26. **Shockley, J.M.** “Economic Feasibility of Autonomous Vehicles.” *The InfoAg Conference*, August 23-25, 2019: St. Louis, MO. Approximate Direct Contacts = 200.
27. **Shockley, J.M.** “Developing a Mobile App to Address Problems in Farm Management” *2019 National Farm Business Management Conference*, Sheboygan, WI. June 9-13, 2019. Approximate Direct Contacts = 50.
28. Ellis, R.* and **J.M. Shockley**. “Economic Costs of Cover Cropping.” *Cover Crop Field Day*, March 8th, 2019: Clarksdale, MS. Approximate Direct Contacts = 25.
29. **Shockley, J.M.** “Precision Agriculture Economics and Decision Making – Beyond Profitability.” *Delaware Ag Week 2019*, January 15th, 2019: Harrington, DE. Approximate Direct Contacts = 40.
30. **Shockley, J.M.** “Precision Agriculture Economics and Decision Making – Beyond Profitability.” *Precision Agriculture Action Summit 2018*, January 16, 2018: Jamestown, ND. Approximate Direct Contacts = 200.
31. **Shockley, J.M.**, Carl Dillon, and Tyler Mark. “The Sensitivity of Economic Gains from High-Speed Planting”. *2017 Planter Research Workshop*, November 7-9, 2017: Case IH Headquarters, Burr Ridge, IL. Approximate Direct Contacts = 40.
32. **Shockley, J.M.** “Determining the Economics of Poultry Litter.” *Kentuckiana*, November 29-30, 2016: French Lick, IN. Approximate Direct Contacts = 200.
33. **Shockley, J.M.** “Determining the Economics of Poultry Litter.” *Mid-Atlantic Crop Management School*, November 15-17, 2016: Ocean City, MD. Approximate Direct Contacts = 300.
34. **Shockley, J.M.** “Precision Agriculture Economics and Decision Making – Beyond Profitability.” *The InfoAg Conference*, August 2-4, 2016: St. Louis, MO. Approximate Direct Contacts = 1400.
35. **Shockley, J.M.** “Post-Harvest Management-Economics of Grain Storage and Drying.” *Azteca Milling – GRUMA Worldwide Meetings*, February 16th – 18th, 2016: Mt. Carmel, IL; Henderson, KY; Evansville, IN. Approximate Direct Contacts = 80.
36. **Shockley, J.M.** “Precision Agriculture Economics-Beyond Profitability.” *John Deere Integrated Solutions Summer Meeting*, July 29th – 30th, 2015: Wilmington, NC. Approximate Direct Contacts = 20.
37. **Shockley, J.M.** “Economic Issues of Current Precision Agriculture Technologies.” *2011 National Farm Business Management Conference*, Nashville, Tennessee, June 12-16, 2011. Approximate Direct Contacts = Not Available.

Kentucky Extension Audiences

Summary of Kentucky Extension Presentations

The following is the count (Total = 249) of extension-oriented county presentations, field days, in-service agent training, etc. that I have conducted within Kentucky for each year in the department. The approximate direct contacts of Kentucky stakeholders are provided. In addition, 26 farm visits have been conducted since July 2015 (not included in the numbers presented below). The topics have included carbon markets, grain management strategies for improved profitability, precision agriculture economics, poultry economics, and general farm management/farm finance education.

Year of Employment	Presentations Delivered	Approximate Direct KY Contacts ¹
2025 (July)	23	795
2024	26	1,130
2023	28	1,050
2022*	29	1,085
2021*	9	595
2020	34	855
2019	23	810
2018	24	865
2017	26	995
2016	21	715
2015	10	335

¹ Approximated based on the number of Kentucky stakeholders attending presentations either in-person or virtually.

* COVID-19 disruption in extension programming resulting in lower than expected Presentations.

Selected Statewide Activities (Sample from the above 249 extension presentation since July, 2015)

- **Shockley, J.M.** “Biofuels Explained: Emerging Markets and Policies.” *2025 Kentucky Association of County Agricultural Agents Annual Meeting*, June 18, 2025: Hopkinsville, KY. Approximate Direct Contacts = 75.
- **Shockley, J.M.** “Economics of Barley in Kentucky.” *2025 Barley Field Day*, May 14, 2025: Lexington, KY. Approximate Direct Contacts = 30.
- **Shockley, J.M.** “Preparing Soybean Producers for the Evolution of Carbon Markets”. *2025 Intensive Soybean Management Workshop*, January 29-30, 2025: Princeton, KY & Elizabethtown, KY. Approximate Direct Contacts = 65.
- **Shockley, J.M.** “Carbon Market Update.” Testified at the *Interim Joint Committee on Agriculture*, September 19, 2024: Frankfort, KY. Approximate Direct Contacts = 40.
- **Shockley, J.M.** “Preparing Grain & Livestock Producers for the Evolution of Carbon Markets”. *2024 Kentucky Young Farmer Convention*, March 2, 2024: Madisonville, KY. Approximate Direct Contacts = 75.

- **Shockley, J.M.** “Voluntary Carbon Market Programs for Kentucky Woodland Owners”. *Breathitt County Meeting*, February 26, 2024: Jackson, KY. Approximate Direct Contacts = 30.
- **Shockley, J.M.** “Preparing Grain Producers for the Evolution of Carbon Markets”. *2024 Winter Wheat Meetings*, February 1, 2024: Hopkinsville, KY. Approximate Direct Contacts = 150.
- **Shockley, J.M.** “Carbon Market Considerations for Kentucky Row Crop Producers”, *2024 Ag Expo*, January 31, 2024: Owensboro, KY. Approximate Direct Contacts = 100.
- **Shockley, J.M.** “Carbon Market Considerations for Kentucky Farmers & Woodland Owners”. *2023 Kentucky Farm Bureau Federation Annual Meeting*, November 30, 2023: Louisville, KY. Approximate Direct Contacts = 45.
- **Shockley, J.M.** “Farm Management Strategies for Improved Decision Making”. *Hart County Cattlemen’s Meeting*, February 23, 2023: Munfordville, KY. Approximate Direct Contacts = 75.
- **Shockley, J.M.** “Carbon Market Considerations for Kentucky Farmers & Woodland Owners”. *Lewis, Bracken, Fleming, Robertson Counties Meeting*, January 31, 2023: Virtual. Approximate Direct Contacts = 20.
- **Shockley, J.M.** “Farm Management Strategies for Improved Decision Making”. *Tri-County Grain Day*, January 24, 2023: Madisonville, KY. Approximate Direct Contacts = 35.
- **Shockley, J.M.** “Carbon Markets 101”, *Small, Limited Resource, Minority Farmers Conference*, November 16, 2022: Frankfort, KY. Approximate Direct Contacts = 35.
- **Shockley, J.M.** “Carbon Markets 101”, *Farm Credit Mid-America – KY Lenders Meeting*, October 26, 2022: Louisville, KY. Approximate Direct Contacts = 30.
- **Shockley, J.M.** “Carbon Markets 101”, *Kentucky/Tennessee Grain Day*, February 23, 2022: Elkton, KY. Approximate Direct Contacts = 60.
- **Shockley, J.M.** “2022 Wheat Marketing and Management”, *2022 Winter Wheat Meeting*, February 8, 2022: Hopkinsville, KY. Approximate Direct Contacts = 125.
- **Shockley, J.M.** “Carbon Markets 101”, *2022 Union County Grain Day*, January 11, 2022: Morganfield, KY. Approximate Direct Contacts = 25.
- **Shockley, J.M.** “Carbon Markets 101”, *2021 Kentucky Agribusiness Summit*, November 3, 2021: Louisville, KY. Approximate Direct Contacts = 40.
- **Shockley, J.M.** “Economic Consideration for Specialty Grain Production”, *2021 Central Kentucky Grain Meeting*, February 2, 2021: Virtual. Approximate Direct Contacts = 20.
- **Shockley, J.M.** “Improved Profitability through Machinery Management”, *2020 Ag Expo*, January 29, 2020: Owensboro, KY. Approximate Direct Contacts = 80.
- **Shockley, J.M.** “Poultry Markets and Financing Under Avian Influenza Concerns”, *2019 Lenders Conference*, December 10-11, 2019: Mayfield, KY; Hopkinsville, KY; Owensboro, KY. Approximate Direct Contacts = 105.
- **Shockley, J.M.** “Farm Management Strategies for Improved Decision Making”. *Kentucky Cattleman’s Leadership Program*, November 6th, 2019: Bowling Green, KY. Approximate Direct Contacts = 25.
- **Shockley, J.M.** “Economic Costs of Cover Cropping”. *2019 Kentucky Agriculture Training School (KATS)*, March 7, 2019: Princeton, KY. Approximate Direct Contacts = 45.
- **Shockley, J.M.** “Farm Management Strategies for Improved Decision Making”, *2019 Ag Expo*, January 30, 2019: Owensboro, KY. Approximate Direct Contacts = 50.

- **Shockley, J.M.** “Economic Costs of Cover Cropping”. *2019 Winter Wheat Meetings*, January 8, 2019: Hopkinsville, KY. Approximate Direct Contacts = 125.
- **Shockley, J.M.** “Economics of Autonomous Machinery”, *2018 Corn, Soybean and Tobacco Field Day*, July 24, 2018: Princeton, KY. Approximate Direct Contacts = 250.
- **Shockley, J.M.** “Economics of Baling Wheat Straw”, *2018 Wheat Field Day*, May 8, 2018: Princeton, KY. Approximate Direct Contacts = 100.
- **Shockley, J.M.** “Economic Value of Poultry Litter”, *2018 Kentucky Poultry Federation Growers Meeting*, April 25, 2018: Summersville, KY. Approximate Direct Contacts = 60.
- **Shockley, J.M.** “Farm Management Strategies for Improved Decision Making.” *2018 Kentucky Commodity Conference*, January 19, 2018: Bowling Green, KY. Approximate Direct Contacts = 150.
- **Shockley, J.M.** “The Economic Impact of the Poultry Industry in Kentucky.” *2017 Kentucky Farm Bureau Federation Annual Meeting*, November 30th, 2017: Louisville, KY. Approximate Direct Contacts = 30.
- **Shockley, J.M.** “Farm Management Strategies for Improved Decision-Making.” *2017 Corn, Soybean and Tobacco Field Day*, July 26, 2017: Princeton, KY. Approximate Direct Contacts = 220.
- **Shockley, J.M. (organizer and moderator)**, Jennifer Rhodes (Delmarva producer), Johnathan Quinn (Delmarva producer), Scott Kueguel (Ohio Valley producer), Jason Head (Ohio Valley producer), Russ Vickers (Ohio Valley producer), and Randy Mann (Ohio Valley producer). “Poultry Litter Lessons from Delmarva and the Ohio Valley.” *2017 Ag Expo*, January 25, 2017: Owensboro, KY and January 26, 2017, Hopkinsville, KY. Approximate Direct Contacts = 75.
- **Shockley, J.M.** “Precision Agriculture Economics and Decision Making – Beyond Profitability.” *2017 Ag Expo*, January 25, 2017: Owensboro, KY. Approximate Direct Contacts = 30.
- **Shockley, J.M.** “Farm Management Strategies for Improved Decision-Making.” *2017 Winter Wheat Meetings*, January 5, 2017: Hopkinsville, KY. Approximate Direct Contacts = 180.
- **Shockley, J.M.** “Economic Value of Poultry Litter”, *2016 Corn, Soybean and Tobacco Field Day*, July 28, 2016: Princeton, KY. Approximate Direct Contacts = 250.

Selected In-service County Agent Trainings (Sample from the above 249 extension presentation since July, 2015)

- **Shockley, J.M.** “Biofuels Explained: Emerging Markets and Policies.” *2025 Kentucky Association of County Agricultural Agents Annual Meeting*, June 18, 2025: Hopkinsville, KY. Approximate Direct Contacts = 75.
- **Shockley, J.M.** “Carbon Market Update”. *2024 Economic Subject Matter Training*, January 8-10, 2024: Princeton, KY; Columbia, KY; Winchester, KY. Approximate Direct Contacts = 70.
- **Shockley, J.M.** “Should I Invest in ‘X’ and Does it Pay?” *New County Agent Economics Training*, July 10-11, 2023: Bardstown, KY. Approximate Direct Contacts = 8.
- **Shockley, J.M.** “Carbon Market Update for KY Farmers and Woodland Owners.” *KY Ag and Natural Resource Agent Monthly Meeting*, June 14, 2023: Virtual. Approximate Direct Contacts = 90.

- **Shockley, J.M.** “Carbon Market Considerations for KY Farmers and Woodland Owners.”. *2023 Economic Subject Matter Training*, January 17-18, 2023: Princeton, KY; Columbia, KY; Winchester, KY. Approximate Direct Contacts = 80.
- **Shockley, J.M.** “Carbon Market 101.” *2022 Economic Subject Matter Training*, January 5-7, 2022: Columbia, KY; Virtual. Approximate Direct Contacts = 95.
- **Shockley, J.M.** “Improved Profitability through Machinery Management”. *2020 Economic Subject Matter Training*, January 10-14, 2020: Princeton, KY; Columbia, KY; Winchester, KY. Approximate Direct Contacts = 90.
- **Shockley, J.M.** “Mobile Apps in Agriculture”. *2018 ANR East Annual Update*, November 6, 2018: Winchester, KY. Approximate Direct Contacts = 60.
- **Shockley, J.M.** “Best Bean Buyer App Demonstration”. *2018 Economic Subject Matter Training*, January 3-5, 2018: Madisonville, KY; Columbia, KY; Winchester, KY. Approximate Direct Contacts = 65.
- **Shockley, J.M.** “Grain Hauling Tool and App Development Update”. *2017 Economic Subject Matter Training*, January 11,13,19, 2017: Princeton, KY; Columbia, KY; Winchester, KY. Approximate Direct Contacts = 55.
- **Shockley, J.M.** “Overview of Extension Program and Tools Currently Available for Agents”. *2016 ANR West Annual Update*, November 2, 2016: Princeton, KY. Approximate Direct Contacts = 50.
- **Shockley, J.M.** “Overview of Extension Program and Tools Currently Available for Agents”. *2016 ANR East Annual Update*, October 26, 2016: Winchester, KY. Approximate Direct Contacts = 100.
- **Shockley, J.M.** “Grain Crops Training: Farm Finance”. *2016 Central KY Grain Crops Agent Training*, September 15, 2016: Versailles, KY. Approximate Direct Contacts = 10.
- **Shockley, J.M.** “Economic of Grain Hauling”. *2016 Economic Subject Matter Training*, January 6-8, 2016: Princeton, KY; Columbia, KY; Winchester, KY. Approximate Direct Contacts = 70.

REFEREED JOURNAL ARTICLES

(* denotes graduate student)

1. Thayer, Anastasia, Z. Wang, F. Silva, M. Vassalos, J.M. Shockley, N. Smith. “Beef Cattle Producers’ Knowledge and Preferences for Carbon Contracts.” Under review. *Journal of Agricultural and Resource Economics*. Submitted 11/6/2024.
2. Szuleta, Elzbieta*, **J.M. Shockley**, C. Knott, T. Phillips, D.V. Sanford. “Influence of Nitrogen Rate on Yield and Profitability of Rye Grain Production.” *Crop, Forage, & Turfgrass Management* (2023). [DOI](#).
Journal Metrics: WOS Metrics: |Year: 2022 |Category: Agronomy |Rank by JCI: 95/126 | JIF: 0.6| JCI: 0.22
Author Role: Guided economic assessment, assisted with manuscript review and revisions.
3. Czarnecki, Joby, **J.M. Shockley**, L. Wasson*, X. Li. “Estimation of the Economic Impacts and Operational Limitations Imposed on Unmanned Aerial Systems by Poor Sky Conditions.” *Precision Agriculture* (2023). [DOI](#).
Journal Metrics: WOS Metrics: |Year: 2022 |Category: Agriculture, Multidisciplinary |Rank by JCI: 2/85 | JIF: 6.2| JCI: 2.02
Author Role: Co-developed the economic model and scenario design, manuscript review and assisted with revisions.
4. Allison, John*, T. Mark, K. Burdine, **Shockley, J.M.** “A Hedonic Analysis of Factors Impacting the Value of Planters on the Used Machinery Market.” *Agricultural and Resource Economics Review* (2022). [DOI](#).
Journal Metrics: WOS Metrics: |Year: 2022 |Category: Agricultural Economics & Policy |Rank by JCI: 22/38 | JIF: 1.3| JCI: 0.54
Author Role: Guided economic assessment, assisted with manuscript review and revisions.
5. **Shockley, J.M.**, C. Dillon, J. Lowenberg-DeBoer, T. Mark. “How Will Regulation Influence Commercial Viability of Autonomous Equipment in U.S. Production Agriculture.” *Applied Economics Policy and Perspectives* (2021). [DOI](#).
Journal Metrics: WOS Metrics: WOS Metrics: |Year: 2021 |Category: Agricultural Economics & Policy |Rank by JCI: 4/22|JIF: 4.890| JCI: 1.93
Author Role: Led manuscript development, economic analyses, and revisions.
6. Lowenberg-DeBoer, James, K. Behrendt, M.H. Ehlers, C. Dillon, A. Gabriel, I. Huang, I. Kumwenda, T. Mark, A. Meyer-Aurich, G. Milics, K. Olgunju, S.M. Pedersen, **J.M. Shockley**, D. Rose. “Lessons to be Learned in Adoption of Autonomous Equipment for Field Crops.” *Applied Economics Policy and Perspectives* (2021) [DOI](#).
Journal Metrics: WOS Metrics: |Year: 2021 |Category: Agricultural Economics & Policy |Rank by JCI: 4/22|JIF: 4.890| JCI: 1.93
Author Role: Provided case studies for U.S. adoption of technology, assisted with manuscript review and revisions.

7. Rod, Katherine*, C. Bradley, **J.M. Shockley**, and C. Knott. “Double Crop Soybean Management Practices for High Yield and Profitability. *Crop, Forage, & Turfgrass Management* (2021) [DOI](#).
Journal Metrics: WOS Metrics: N/A
Author Role: Guided economic assessment, assisted with manuscript review and revisions.
8. Badon, Thomas*, J. Czarnecki, L.J. Krutz, **J.M. Shockley**, and B. Baker. “Cover Crop and Minimum-Tillage Effects on Yield, Irrigation Water Use, and Net Returns” *Agrosystems, Geosciences & Environment* (2021) [DOI](#).
Journal Metrics: WOS Metrics: N/A
Author Role: Guided economic assessment, assisted with manuscript review and revisions.
9. Rod, Katherine*, **J.M. Shockley**, and C. Knott. “Seed Yield, Seed Quality, Profitability, and Risk Analysis Among Double Crop Soybean Maturity Groups and Seeding Rates”. *Agronomy Journal: Crop Economics, Production, and Management* (2021). [DOI](#).
Journal Metrics: WOS Metrics: |Year: 2021 |Category: Agronomy |Rank by JCI: 29/124|JIF: 2.650| JCI: 0.86
Author Role: Guided economic assessment, assisted with manuscript review and revisions.
10. Bradley, Carl, R.C. Kenimer, **J.M. Shockley**, and K.A. Wise. “Effect of benzovindifluphyr + propiconazole fungicide applied at different growth stages on foliar disease severity, grain yield, and economic benefit of hybrid corn grown in Kentucky. *Plant Health Progress* (2020) Vol 21: 162-165. [DOI](#).
 - a. Editors Pick for best journal article in Vol 21Journal Metrics: WOS Metrics: N/A
Author Role: Led the economic model development, assisted with manuscript review and revisions.
11. **Shockley, J.M.**, T. Mark, K. Burdine, and L. Russell. “Financial Implications from Contracting Avian Influenza in a U.S. Broiler Operation”. *Journal of Applied Farm Economics* 3, no. 1 (Spring 2020). [PDF](#).
Journal Metrics: WOS Metrics: N/A
Author Role: Led manuscript development, economic analyses, and revisions.
12. Brown, R., N. Zau, **J.M. Shockley**, S. Buck. “The Project Manager / Private Contractor Approach to Group Assignments” *Applied Economics Teaching Resources* (2019) Vol. 1, Issue 2: 64-73. [PDF](#).
Journal Metrics: WOS Metrics: N/A
Author Role: Utilized the Project Manager / Private Contractor approach in my AEC 441G class.
13. Brown, R., N. Zau, **J.M. Shockley**, S. Buck. “An Authentic Learning Approach to Group Assignments: An Analysis of Student Attitudes” *Applied Economics Teaching Resources* (2019) Vol. 1, Issue 2: 1-13. [PDF](#).
Journal Metrics: WOS Metrics: N/A

Author Role: Utilized the Project Manager / Private Contractor approach in my AEC 441G class and utilized survey data from students in class.

14. Langemeier, M. and **J.M. Shockley**. 2019. "Impact of Emerging Technologies on Farm Management." *Choices*. Quarter 2. [PDF](#).
Journal Metrics: WOS Metrics: N/A
Author Role: Assisted with manuscript development and revisions.
15. **Shockley, J.M.**, C.R. Dillon, and S.A. Shearer. "An Economic Feasibility Assessment of Autonomous Field Machinery in Grain Crop Production." *Precision Agriculture* (2019) [DOI](#).
Journal Metrics: WOS Metrics: |Year: 2019 |Category: Agriculture, Multidisciplinary |Rank by JCI: 1/83 | JIF: 4.454| JCI: 2.37
Author Role: Led manuscript development, economic analyses, and revisions.
16. Dvorak, Joseph, **J.M. Shockley**, Ricky Mason*, and Samuel McNeil. "Modelling the Costs Associated with High-Moisture Grain for Mobile Apps". *Computers and Electronics in Agriculture* 153 (2018): 313-317. [DOI](#).
Journal Metrics: WOS Metrics: |Year: 2018|Category: Agriculture, Multidisciplinary |Rank by JCI: 6/76 | JIF: 3.171| JCI: 1.45
Author Role: Developed the economic model and scenario design, assisted with manuscript review and revisions.
17. **Shockley, J.M.**, Joseph Dvorak, Ricky Mason*, and Samuel McNeil. "The Process and Lessons Learned from Developing a Farm Management Mobile App – A Case Study of Grain Transportation". *2018 Journal of Farm Managers and Rural Appraisers*. (2018): 68-89. [PDF](#).
 a. 2018 Gold Quill Award winner for top journal article by the American Society of Farm Managers and Rural Appraisers
Journal Metrics: WOS Metrics: N/A
Author Role: Led manuscript development, economic analyses, and revisions.
18. **Shockley, J.M.**, W.A. Osborne*, C.R. Dillon, J.S. Pierce. "A Two-Tiered Benchmarking Analysis for Cost Management." *2016 Journal of the American Society of Farm Managers and Rural Appraisers*. (2016): 102-115. [PDF](#).
Journal Metrics: WOS Metrics: N/A
Author Role: Led manuscript development, economic analyses, and revisions.
19. Brown, R.M.*, C.R. Dillon, J. Schieffer, and **J.M. Shockley**. "The Carbon Footprint and Economic Impact of Precision Agriculture Technology on a Corn and Soybean Farm." *Journal of Environmental Economics and Policy* (2015) [DOI](#).
Journal Metrics: WOS Metrics: N/A
Author Role: Guided economic assessment, assisted with manuscript review and revisions
20. **Shockley, J.M.**, C.R. Dillon, T. Stombaugh, and S. Shearer. "Whole Farm Analysis of Automatic Section Control for Agricultural Machinery." *Precision Agriculture*. 13, 4 (2012): 411-420. [DOI](#).
Journal Metrics: WOS Metrics: |Year: 2012 |Category: Agriculture, Multidisciplinary |Rank by JCI: N/A | JIF: 1.728| JCI: N/A
Author Role: Led manuscript development, economic analyses, and revisions.

21. **Shockley, J.M.**, C.R. Dillon, and T. Stombaugh. “The Influence of Auto-steer on Machinery Selection and Land Acquisition.” *2012 Journal of the American Society of Farm Managers and Rural Appraisers* (2012): 1-7. [PDF](#).
Journal Metrics: WOS Metrics: N/A
Author Role: Led manuscript development, economic analyses, and revisions.
22. Dillon, C.R. and **J.M. Shockley**. “The Value of Suitable Working Time for Crop Production Machinery Activities.” *Journal of International Farm Management* Vol.5. Ed.4 (June 2011). [PDF](#).
Journal Metrics: WOS Metrics: N/A
Author Role: Co-led manuscript development, economic analyses, and revisions.
23. **Shockley, J.M.**, C.R. Dillon, and T. Stombaugh. “A Whole Farm Analysis of the Influence of Auto-steer Navigation on Net Returns, Risk, and Production Practices.” *Journal of Agricultural and Applied Economics*. 43,1, (February 2011): 57-75. [DOI](#).
Journal Metrics: WOS Metrics: N/A
Author Role: Led manuscript development, economic analyses, and revisions.

BOOK CHAPTERS

1. Griffin, T.W., **J.M. Shockley**, and T. Mark. 2018. Economics of Precision Farming. In D.K. Shannon, D.E. Clay, N.R. Kitchen, editors, *Precision Agriculture Basics*, ASA, CSSA, and SSSA, Madison, WI. [DOI](#).
2. Dillon, C.R., **J.M. Shockley** and J.D. Luck. A Spatial Economics Decision-making Guide for Conservation Reserve Program. Chapter 14, pp 245-257. IN: T. Mueller and G. Sassenrath, eds. *GIS Applications in Agriculture, Volume 4: Conservation Planning*. CRC Press, Boca Raton, FL (2015). [ISBN](#).

OTHER REFEREED ARTICLES

1. **Shockley, J.M.**, T. Mark, and C.R. Dillon. “Educating Producers on the Profitability of Precision Agriculture Technologies.” *Advances in Animal Biosciences: Precision Agriculture (ECPA) 2017*. 8:2, (2017). [DOI](#).
2. Dillon, C.R., **J.M. Shockley**, and T. Mark. “The Sensitivity of Economic Gains from High-Speed Planting.” *Advances in Animal Biosciences: Precision Agriculture (ECPA) 2017*. 8:2, (2017). [DOI](#).
3. **Shockley, J.M.**, C.R. Dillon, and T. Stombaugh. “Auto-Steer Navigation Profitability and its Influence on Management Practices: A Whole Farm Analysis.” In: *Proceedings of the 7th European Conference on Precision Agriculture*. Wageningen, Netherlands. July 6-8, 2009 pp.751-757.
4. **Shockley, J.M.**, S.H. Saghaian, and C.R. Dillon. “Precision Agriculture Adoption and the Optimal Location of Technology Providers in Kentucky.” In: *Proceedings of the 6th European Conference on Precision Agriculture*. Skiathos Island, Greece. June 3-6, 2007. 769-773.

PROFESSIONAL AND PEER PRESENTATIONS

(* denotes graduate student; underline denotes poster)

International Professional and Peer Audiences

1. **Shockley, J.M.**, “Economic and Legal Considerations with Carbon Markets for Livestock Producers.” *2023 Joint Western Agricultural Economics Association/Canadian Agricultural Economic Association Conference*, Whistler, BC, Canada. July 17-20, 2023.
2. **Shockley, J.M.**, C. Dillon, J. Lowenberg-DeBoer, and T. Mark. “How Will Regulation Influence Commercial Viability of Autonomous Equipment in US Production Agriculture?” *4th Online Symposium on Agri-Tech Economics for Sustainable Futures*, Harper Adams University, Newport, U.K. September 20-21, 2021.
3. **Shockley, J.M.**, C. Dillon, and T. Mark. “Autonomous Machinery: Where We Are in the U.S., Where We Are Heading, and Economic Methods for Evaluating Profitability and Risk.” *INFER Workshop on Agri-Tech Economics*, Newport, U.K. October 18-19, 2019.
4. **Shockley, J.M.** and C. Dillon. “An Economic Feasibility Assessment for Adoption of Autonomous Field Machinery in Row Crop Production.” Selected Paper prepared for presentation at the *2018 International Conference on Precision Agriculture*, Montreal, Quebec. June 24-26, 2018.
5. Cullop, J., G. Ibendahl, **J.M. Shockley**, E. Barnes, and J. Devine, T. Griffin. “Feasibility of Swarm Bot Technology within U.S. Cotton Harvesting” Poster presented at the *2018 International Conference on Precision Agriculture*, Montreal, Quebec. June 24-26, 2018.
6. **Shockley, J.M.**, T. Mark and C. Dillon. “Educating Producers on the Profitability of Precision Agriculture Technologies.” Selected Paper prepared for presentation at the *11th European Conference on Precision Agriculture*, Edinburgh, Scotland, July 17-20, 2017.
7. Dillon, C.R. and **J.M. Shockley**. 2010. “Precision Management for Enhanced Farmer Net Returns with the Conservation Reserve Program.” Selected Paper prepared for presentation at the *10th International Conference of Precision Agriculture and Other Precision Resource Management ASA/SSA/CSSA*, Denver, CO.
8. Balkcom, K., B. Ortiz, **J.M. Shockley**, and J. Fulton. 2010. “Profitability of RTK Auto-Steer Guidance and its Influence of Peanut Production: A Whole Farm Analysis” Selected Paper prepared for presentation at the *10th International Conference of Precision Agriculture and Other Precision Resource Management ASA/SSA/CSSA*, Denver, CO.
9. **Shockley, J.M.**, C.R. Dillon, and T. Stombaugh. “Auto-Steer Navigation Profitability and its Influence on Management Practices: A Whole Farm Analysis.” Selected Paper prepared for presentation at the *7th European Conference on Precision Agriculture*. Wageningen, Netherlands. July 6-8, 2009.
10. **Shockley, J.M.**, C.R. Dillon, and S. Shearer. 2008. “Cost Savings for Multiple Inputs With Swath Control and Auto-Guidance Technologies.” Selected Paper prepared for presentation at the *9th International Conference of Precision Agriculture and Other Precision Resource Management ASA/SSA/CSSA*, Denver, CO.
11. **Shockley, J.M.**, S.H. Saghaian, and C.R. Dillon. “Precision Agriculture Adoption and the Optimal Location of Technology Providers in Kentucky.” Selected Paper prepared for presentation at the *6th European Conference on Precision Agriculture*. Skiathos Island, Greece. June 3-6, 2007.

12. **Shockley, J.M.**, S.H. Saghaian, C.R. Dillon, L.J. Maynard 2006. A Logit Analysis of Precision Agriculture Adoption in Kentucky. Selected Paper prepared for presentation at the 8th International Conference on Precision Agriculture and Other Precision Resources Management ASA/SSA/CSSA, Minneapolis, MN.

Domestic Professional and Peer Audiences

1. **Shockley, J.M.** “Shaping the Next Generation of Extension Educators” 2025 Southern Extension Economics Committee Meeting, Pensacola, FL. June 1-3, 2025.
2. **Shockley, J.M.** and S. Klose “Preparing for a Career in Extension” Selected symposium for presentation at the 2025 Southern Agricultural Economics Association Annual Meeting, Irving, TX. February 2-4, 2025.
3. **Shockley, J.M.** “Carbon Credits...Untapped Potential or Overhyped Solution?” Selected symposium for presentation at the 2024 Agricultural & Applied Economics Association Annual Meeting, New Orleans, LA. July 28-August 1, 2024.
4. **Shockley, J.M.** “Producer and Consumer Acceptance of Carbon and Water Management for Climate-Smart Agriculture” Track Session for presentation at the 2024 Agricultural & Applied Economics Association Annual Meeting, New Orleans, LA. July 28-August 1, 2024.
5. **Shockley, J.M.** “Carbon Markets Update” 2024 Southern Extension Economics Committee Meeting, Pensacola, FL. June 17-19, 2024.
6. **Shockley, J.M.** and S. Klose. “Preparing for a Career in Extension” Selected symposium for presentation at the 2024 Southern Agricultural Economics Association Annual Meeting, Atlanta, GA. February 4-6, 2024.
7. **Shockley, J.M.** “Technology for Risk Management” Selected symposium for presentation at the 2023 Agricultural & Applied Economics Association Annual Meeting, Washington, DC. July 22-25, 2023.
8. **Shockley, J.M.** and S. Klose. “Preparing for a Career in Extension” Selected symposium for presentation at the 2023 Southern Agricultural Economics Association Annual Meeting, Oklahoma City, OK. February 2-4, 2023.
9. **Shockley, J.M.** “Contemporary Curriculum and Teaching Tools in Farm Management” Selected symposium for presentation at the 2022 Agricultural & Applied Economics Association Annual Meeting, Anaheim, CA. July 31 – August 3, 2022.
10. **Shockley, J.M.** “The Elevated Role of Competitive Grants in Measuring Faculty Success and Funding Department Operations” Selected symposium for presentation at the 2022 Agricultural & Applied Economics Association Annual Meeting, Anaheim, CA. July 31 – August 3, 2022.
11. **Shockley, J.M.** “Economic and Legal Considerations of Carbon Markets” Selected symposium for presentation at the 2022 Western Agricultural Economics Association Annual Meeting, Santa Fe, NM. June 26-29, 2022.
12. **Shockley, J.M.** “Carbon Markets Update” 2022 Southern Extension Economics Committee Meeting, Clearwater, FL. June 6-8, 2022.
13. **Shockley, J.M.** “Carbon Markets 101” 2021 Southern Outlook Conference, Atlanta, GA. September 20-22, 2021.
14. **Shockley, J.M.** “Integrating Farm Management Principles with Current and Future Precision Agriculture Technologies” Selected symposium for presentation at the 2021 Agricultural & Applied Economics Association Annual Meeting, Austin, TX. July 31 – August 3, 2021.

15. **Shockley, J.M.** “2021 Poultry Outlook” *2021 Southern Extension Economics Committee Meeting*, Virtual. February 8-9, 2021.
16. **Shockley, J.M.** and Charles Martinez “Evaluating the Economic Risk of Using Organic Fertilizer in Row Crop Production” *2021 Southern Extension Economics Committee Meeting*, Virtual. February 8-9, 2021.
17. Charles Martinez and **J.M. Shockley**. “Evaluating the Impact and Changes in the Wholesale Poultry Market due to COVID-19” *2021 Southern Extension Economics Committee Meeting*, Virtual. February 8-9, 2021.
18. **Shockley, J.M.** “2020 Poultry Outlook” *2020 Southern Outlook Conference*, Virtual. October 6, 2020
19. **Shockley, J.M.** “2019 Poultry Outlook” *2019 Southern Outlook Conference*, Atlanta, GA. September 23-25, 2019
20. **Shockley, J.M.** “Autonomous Machinery: Where We Are, Where We Are Heading, and is it Economical?” *2019 Southern Extension Economics Committee Meeting*, Nashville, TN. June 3-5, 2019.
21. Brown, R., N. Zuo, and **J.M. Shockley**. “How Can Authentic Business Models Improve Student Attitudes About Group Assignments?” Selected Paper prepared for presentation at the *2018 Agricultural & Applied Economics Association Annual Meeting*, Washington, D.C. August 5-7, 2018.
22. **Shockley, J.M.**, L. Russell, K. Burdine and T. Mark. “Financial Implications from Contracting Avian Influenza in a U.S. Broiler Operation.” *2018 Southern Extension Economics Committee Meeting*, Myrtle Beach, SC. June 11-13, 2018.
23. **Shockley, J.M.** “Current Status of Farm Management in Kentucky and Vision for 2030.” *2018 North Central Farm Management Extension Committee Meeting*, Ames, IA. May 16-18, 2018.
24. **Shockley, J.M.** “Economics of Conservation Practices: Kentucky and Beyond” *2018 North Central Farm Management Extension Committee Meeting*, Ames, IA. May 16-18, 2018.
25. Martin, B., T. Mark, T. Davis, and **J.M. Shockley**. “Determinants of Food Corn Contract Volumes.” Selected Paper prepared for presentation at the *2018 Southern Agricultural Economics Association Annual Meeting*, Jacksonville, FL. February 4-6, 2018.
26. Wade, S.*, **J.M. Shockley**, C.R. Dillon, and J.M. McGrath. “Evaluating the Profitability and Environmental Impacts of Poultry Litter Sub-Surfer Technology.” Selected Paper prepared for presentation at the *2018 Southern Agricultural Economics Association Annual Meeting*, Jacksonville, FL. February 4-6, 2018.
27. Best, S., A. Smith, M. Buschermohle, **J.M. Shockley**. “Analyzing the Impact of Speed and Width on Planter Costs and Risk for Different Field Characteristics and Planting Windows.” Poster for the *2018 Southern Agricultural Economics Association Annual Meeting*, Jacksonville, FL. February 4-6, 2018.
28. **Shockley, J.M.** “Farm Management Strategies for Improved Decision-Making: State and Southern Region Efforts.” *Agricultural and Applied Economics Association Annual Meeting*, Chicago, IL, July 30- August 1, 2017.
29. **Shockley, J.M.** “Developing a Mobile App to Address Problems in Farm Management.” *2017 Southern Extension Economics Committee Meeting*, Charleston, SC, June 26-28, 2017.
30. **Shockley, J.M.** “Applied Research & Extension Activities Pertaining to Precision Agriculture.” *2017 North Central Farm Management Extension Committee Meeting*, Manhattan, KS, May 18-19, 2017

31. **Shockley, J.M.** “Extension’s Response to Farm Financial Stress.” *2017 North Central Farm Management Extension Committee Meeting*, Manhattan, KS, May 18-19, 2017
32. **Shockley, J.M.** “Big Ag Data & Precision Agriculture: What are the Extension, Teaching & Research Needs.” Selected Organized Symposium at the *Southern Agricultural Economics Association Annual Meeting*, Mobile, AL, February 4-7, 2017.
33. **Shockley, J.M.** “An Integrated Extension Approach to Poultry Litter Best Management Practices in Kentucky.” Selected Paper prepared for presentation at the *2016 Southern Extension Economics Committee Meeting*, Pointe Clear, AL, June 31 – July 2, 2016.
34. Griffin, T and **J. Shockley**. “Farmers’ Willingness-To-Pay for Farmland Based on Machinery Efficiency and Precision Technology Adoption.” Selected Paper prepared for presentation at the *Southern Agriculture Economics Association Annual Meeting*, San Antonio, TX, February 6-9, 2016.
35. Brown, R.M., C.R. Dillon, J. Scheiffer, and **J.M Shockley**. “The Impact of Precision Agriculture Techniques on Kentucky Grain Farmers’ Carbon Footprint.” Selected Paper prepared for presentation at the *Southern Agriculture Economics Association Annual Meeting*, Birmingham, AL, February 4-7, 2012.
36. **Shockley, J.M.**, C.R. Dillon, and T. Woods. “Estimating the Economic Viability of a New Crop Alternative for the U.S. Organic Market: Edamame – A Vegetable Soybean.” Selected Poster to be presented at the *Agricultural & Applied Economic Association’s 2011 AAEA & NAREA Joint Annual Meeting*, Pittsburg, Pennsylvania, July 24-26, 2011.
37. Dillon, C.R. and **J.M. Shockley**. 2009. “Interactive Effects of Production Practices on Risk Management Potential of Variable Rate Irrigation and Variable Rate Fertilization.” Selected Paper prepared for presentation at the *Western Agricultural Economics Association Annual Meetings*, Kauai, HI. June 24-26.
38. **Shockley, J.M.**, C.R. Dillon, and S.H. Saghaian. 2007. “Cost Sensitivity Analysis on the Optimal Location of Technology Providers in Kentucky.” Selected Paper prepared for presentation at the *Southern Agricultural Economics Association Annual Meetings*, Mobile, AL. February 4 - 7.

RESEARCH & EXTENSION GRANTS

Summary of Grants

Type of Awards	No. of Awards	Total Amount	Controlled or Shared Control
National or Regionally Competitive	6	\$1,310,806	\$228,154
Commodity Groups	21	\$935,775	\$69,438
Industry/Non-profits	2	\$1,160,259	\$0
Hatch	2	\$94,147	n/a
Travel	1	\$2,250	\$2,250
TOTAL	32	\$3,503,237	\$299,842

Grants Currently Funded: \$1,351,059 (Total); \$30,780 (Controlled or Shared Control)

Title of Project: Intensive Wheat Management: Moving from Small Plot to Field Scale
Source of Support: Kentucky Small Grain Growers Association
Amount Requested: \$12,000; \$0 (Shared Control); Sponsor required institutional investment (1% of my salary and fringe)
Effective and Expiration Dates: 2024-2025
Collaborators: Edwin Ritchey, John Grove, and **Jordan Shockley (Co-PI)**
Notes: Leading the economic research component of the grant

Title of Project: Validation of a Decision Support Tool to Identify Economically Optimum Planting Dates.
Source of Support: Kentucky Soybean Promotion Board
Amount Requested: \$27,965 (Total); \$0 (Shared Control); Sponsor required institutional investment (1% of my salary and fringe)
Effective and Expiration Dates: 2024-2025
Collaborators: C. Shepard, Montse Salmeron, Chad Lee, Ole Wendroth, **Jordan Shockley (Co-PI)**
Notes: Co-leading the economic research component of the grant

Title of Project: Preparing Farmers and Ranchers for the Evolution of Carbon Markets
Source of Support: Southern Risk Management Education Center
Amount Requested: \$74,975 (Total); \$30,780 (Controlled)
Effective and Expiration Dates: 2024-2025
Collaborators: Tiffany Dowell Lashmet, **Jordan Shockley (Co-PI)**
Notes: Leading the economic extension component of grant
Title of Project: Leveraging diverse partnerships to advance cereal rye breeding and market development across the Southeast.
Source of Support: Brown-Forman/DendriFund
Amount Requested: \$676,084 (Total); \$0 (Shared Control)
Effective and Expiration Dates: 1/2023-12/2028
Collaborators: David Van Sanford, Chad Lee, Tim Phillips, and **Jordan Shockley (Co-PI)**

Notes: Leading the economic research and extension component of the grant

Grants Completed: \$2,152,178 (Total); \$199,182 (Controlled or Shared Control)

Title of Project: Intensive Wheat Management, a Research and Educational Opportunity for Kentucky

Source of Support: Kentucky Small Grain Growers Association

Amount Requested: \$28,000; \$0 (Shared Control); Sponsor required institutional investment (1% of my salary and fringe)

Effective and Expiration Dates: 2023-2024

Collaborators: Edwin Ritchey, John Grove, and **Jordan Shockley (Co-PI)**

Notes: Leading the economic research component of the grant

Title of Project: A Collaborative Training Approach for Kentucky's Military Veteran, Underserved and Rural Beginning Farmers" proposal submitted by University of Kentucky Cooperative Extension Service

Source of Support: USDA – Beginning Farmer and Rancher Development Program

Amount Requested: \$600,000 (Total); \$69,880 (Shared Control)

Effective and Expiration Dates: 2021-2024

Collaborators: Craig Woods, Ricky Yeargan, Linda Bokros, Michael Lewis, Kenny Burdine, **Jordan Shockley (Co-PI)**, Paul Vijayakumar, Shawn Wright, and Edwin Ritchey

Notes: Co-leading the economic extension component of grant

Title of Project: How early should KY farmers plant soybeans? A decision tool combining experimental data and modeling.

Source of Support: Kentucky Soybean Promotion Board

Amount Requested: \$38,501 (Total); \$0 (Shared Control); Sponsor required institutional investment (1% of my salary and fringe)

Effective and Expiration Dates: 2022-2023

Collaborators: Montse Salmeron, Chad Lee, **Jordan Shockley (Co-PI)**

Notes: Co-leading the economic research component of the grant

Title of Project: Is Compaction a Limiting Factor in Maximizing Soybean Yield: If so, Why?

Source of Support: Kentucky Soybean Promotion Board

Amount Requested: \$28,197 (Total); \$1,000 (Shared Control); Sponsor required institutional investment (1% of my salary and fringe)

Effective and Expiration Dates: 2022-2023

Collaborators: Edwin Ritchey, John Grove, **Jordan Shockley (Co-PI)**, and Josh McGrath

Notes: Leading the economic research component of the grant

Title of Project: Evaluating ROI of Disease Management Practices

Source of Support: Kentucky Soybean Promotion Board

Amount Requested: \$32,873 (Total); \$1,000 (Shared Control); Sponsor required institutional investment (1% of my salary and fringe)

Effective and Expiration Dates: 2022-2023

Collaborators: Carl Bradley, **Jordan Shockley (Co-PI)**, and Raul Villanueva

Notes: Leading the economic research component of the grant

Title of Project: Development of Local Small Grain Value Chains for Kentucky and the Mid-South

Source of Support: Southern Sustainable Agriculture Research & Education (SARE)

Amount Awarded: \$235,119 (Total); \$0 (Shared Control)

Effective and Expiration Dates: 2019-2022

Collaborators: David van Sanford, Krista Jacobsen, Lilian Brislen, Leigh Maynard, and **Jordan Shockley (Co-PI)**

Notes: Co-leading the economic research component of the grant

Title of Project: Economics of Grain Bag Storage Systems: Educating Mississippi Delta Grain Producers on Production, Marketing, and Financial Risks

Source of Support: Southern Extension Risk Management Education

Amount Requested: \$27,600 (Total); \$2,000 (Shared Control)

Effective and Expiration Dates: 2021-2022

Collaborators: Aaron Smith, **Jordan Shockley (Co-PI)**, Will Maples, Brian Mills, Charles Martinez

Notes: Leading the economic extension component of the grant for Kentucky

Title of Project: Intensive Wheat Management, a Research and Educational Opportunity for Kentucky

Source of Support: Kentucky Small Grain Growers Association

Amount Requested: \$28,500 (Total); \$0 (Shared Control)

Effective and Expiration Dates: 2021-2022

Collaborators: John Grove, Edwin Ritchey, and **Jordan Shockley (Co-PI)**

Notes: Leading the economic research component of the grant

Title of Project: Reevaluating the University of Kentucky's Soil Fertility Recommendations for Soybean Production Year 2

Source of Support: Kentucky Soybean Promotion Board

Amount Requested: \$36,000 (Total); \$0 (Shared Control); Sponsor required institutional investment (1% of my salary and fringe)

Effective and Expiration Dates: 2021-2022

Collaborators: Edwin Ritchey, John Grove, **Jordan Shockley (Co-PI)**, and Josh McGrath

Notes: Leading the economic research component of the grant

Title of Project: Advancing Modern Wheat Nutrition to Sustain Yield and the Economics of Production – Year 2

Source of Support: Kentucky Small Grain Growers Association

Amount Requested: \$16,000 (Total); \$1,000 (Shared Control)

Effective and Expiration Dates: 2021-2022

Collaborators: John Grove, Edwin Ritchey, and **Jordan Shockley (Co-PI)**

Notes: Leading the economic research component of the grant

Title of Project: Nitrogen Rate Decision Support for Kentucky Corn Grain Production

Source of Support: Kentucky Corn Growers Association

Amount Awarded: \$338,336 (Total); \$4,000 (Shared Control)

Effective and Expiration Dates: 2018-2021

Collaborators: Joshua McGrath, Hanna Poffenbarger, **Jordan Shockley (Co-PI)**, Michael Sama, Edwin Ritchey

Notes: Leading the economic research component of the grant

Title of Project: Reevaluating the University of Kentucky's Soil Fertility Recommendations for Soybean Production

Source of Support: Kentucky Soybean Promotion Board

Amount Requested: \$34,500 (Total); \$0 (Shared Control); Sponsor required institutional investment (1% of my salary and fringe)

Effective and Expiration Dates: 2020-2021

Collaborators: Edwin Ritchey, John Grove, **Jordan Shockley (Co-PI)**, and Josh McGrath

Notes: Leading the economic research component of the grant

Title of Project: Determining the Profitability of Growing Premium Corn Varieties in Kentucky

Source of Support: Kentucky Corn Growers Association

Amount Requested: \$10,000 (Total); \$10,000 (Shared Control)

Effective and Expiration Dates: 2020-2021

Collaborators: **Jordan Shockley (PI)** and Greg Halich

Notes: Co-leading the economic research component of the grant

Title of Project: Advancing Modern Wheat Nutrition to Sustain Yield and the Economics of Production

Source of Support: Kentucky Small Grain Growers Association

Amount Requested: \$25,000 (Total); \$1,000 (Shared Control)

Effective and Expiration Dates: 2019-2020

Collaborators: John Grove, Edwin Ritchey, and **Jordan Shockley (Co-PI)**

Notes: Leading the economic research component of the grant

Title of Project: Determining Yield and Profitability of Different Corn Irrigation Strategies

Source of Support: Kentucky Corn Growers Association

Amount Awarded: \$39,875 (Total); \$0 (Shared Control)

Effective and Expiration Dates: 2019-2020

Collaborators: Carrie Knott, Chad Lee, and **Jordan Shockley (Co-PI)**

Notes: Leading the economic research component of the grant

Title of Project: Reducing Fusarium Head Blight Vomitoxin Levels through Agronomic Practices

Source of Support: Kentucky Small Grain Growers Association

Amount Awarded: \$33,750 (Total); \$0 (Shared Control)

Effective and Expiration Dates: 2018-2019

Collaborators: Katherine Rod, Carrie Knott, Carl Bradley and **Jordan Shockley (Co-PI)**

Notes: Advised the economic research component of the grant

Title of Project: Market Demand and Production Costs Estimates for Specialty Small Grains in Kentucky

Source of Support: Kentucky Small Grain Growers Association

Amount Awarded: \$12,500 (Total); \$12,500 (Shared Control)

Effective and Expiration Dates: 2018-2019

Collaborators: **Jordan Shockley (Lead PI)**, Leigh Maynard and Dave Van Sanford

Notes: Co-leading the economic research component of the grant

Title of Project: Increasing Double Crop Soybean Yields through Intensive Management: Year 3

Source of Support: Kentucky Soybean Promotion Board

Amount Awarded: \$62,000 (Total); \$0 (Shared Control); Sponsor required institutional investment (1% of my salary and fringe)

Effective and Expiration Dates: 2018-2019

Collaborators: Katherine (McLachlan) Rod, Carrie Knott, Carl Bradley, and **Jordan Shockley (Co-PI)**

Notes: Advised the economic research component of the grant

Title of Project: 2-Day Workshop on AIMMS

Source of Support: University of Kentucky College of Agriculture, Food, and Environment Research Activity Award

Amount Awarded: \$2,250 (Total); \$2,250 (Control)

Effective and Expiration Dates: 2018-2019

Collaborators: **Jordan Shockley (Lead PI)**

Notes: Travel grant for research training

Title of Project: Quantifying the Agronomic, Economic, and Environmental Benefits of Cover Crops in Mid-South Production Systems

Source of Support: USDA-NIFA Critical Agricultural Research and Education (CARE)

Amount Awarded: \$298,122 (Total); \$121,005 (Control)

Effective and Expiration Dates: 2016-2019

Collaborators: Joby Czarnecki, Beth Baker, John Orlowski, **Jordan Shockley (Co-PI)**

Notes: Lead the economic research component of the grant and funded graduate student

Title of Project: Do Critical Phosphorus Concentration Vary in Space and if so Why?

Source of Support: International Plant Nutrition Institute (NPNI) Phosphorus Fellowship Program

Amount Awarded: \$484,175 (Total); \$0 (Control)

Effective and Expiration Dates: 2016-2019

Collaborators: Joshua McGrath, James Brown, David McNear, Edwin Ritchey, Ole Wendroth, **Jordan Shockley (Co-I)**, Ben Goff, John Spargo, Brain Arnall, Rachel Cook, Steve Culman, Joe Luck, and John Fulton

Notes: Leading the economic research component of the grant

Title of Project: Understanding the Components and Mechanisms Responsible for High Yielding Soybeans

Source of Support: Kentucky Soybean Promotion Board

Amount Awarded: \$34,548 (Total); \$0 (Shared Control); Sponsor required institutional investment (1% of my salary and fringe)

Effective and Expiration Dates: 2017-2018

Collaborators: Edwin Ritchey, John Grove and **Jordan Shockley (Co-PI)**

Notes: Leading the economic research component of the grant

Title of Project: Quantifying the Potential of 100 Bu/Ac Yield in Soybean and its Profitability for Environmental Conditions in Kentucky

Source of Support: Kentucky Soybean Promotion Board

Amount Awarded: \$34,888 (Total); \$0 (Shared Control); Sponsor required institutional investment (1% of my salary and fringe)

Effective and Expiration Dates: 2017-2018

Collaborators: Montserrat Salmeraon, **Jordan Shockley (Co-PI)**, Chad Lee, Carrie Knott, Edwin Ritchey

Notes: Leading the economic research component of the grant

Title of Project: Intensive Management: An Option to Increase Double Crop Soybean Yields?

Source of Support: Kentucky Soybean Promotion Board

Amount Awarded: \$51,424 (Total); \$0 (Shared Control); Sponsor required institutional investment (1% of my salary and fringe)

Effective and Expiration Dates: 2017-2018

Collaborators: Katherine McLachlan, Carrie Knott, Carl Bradley, **Jordan Shockley (Co-PI)**

Notes: Advised the economic research component of the grant

Title of Project: Nitrogen Contributions from Different Cover Cropping Systems Established Following Full Season Soybeans

Source of Support: Natural Resource Conservation Service, Kentucky Conservation Innovation Grant

Amount Awarded: \$75,000 (Total); \$4,489 (Control)

Effective and Expiration Dates: 2016-2017

Collaborators: Edwin Ritchey, Josh McGrath, Brad Lee, Erin Haramoto, Mark Coyne, and **Jordan Shockley (Co-PI)**

Notes: Leading the economic research component of the grant

Title of Project: Determining the Economic Value of Poultry Litter for Kentucky Corn Producers

Source of Support: Kentucky Corn Growers Association

Amount Awarded: \$18,469 (Total); \$18,469 (Shared Control)

Effective and Expiration Dates: 2016-2017

Collaborators: **Jordan Shockley (Lead-PI)**, Edwin Ritchey, and Josh McGrath

Notes: Leading the economic research and extension component of the grant

Title of Project: High Moisture Soybean Delivery Advice App

Source of Support: Kentucky Soybean Promotion Board

Amount Awarded: \$13,945 (Total); \$2,000 (Shared Control); Sponsor required institutional investment (1% of my salary and fringe)

Effective and Expiration Dates: 2016-2017

Collaborators: Joseph Dvorak, **Jordan Shockley (Co-PI)**, and Sam McNeil

Notes: Leading the economic research and extension component of the grant

Title of Project: Determining the Economic Value of Poultry Litter for Kentucky Soybean Producers

Source of Support: Kentucky Soybean Promotion Board

Amount Awarded: \$18,469 (Total); \$18,469 (Shared Control); Sponsor required institutional investment (1% of my salary and fringe)

Effective and Expiration Dates: 2016-2017

Collaborators: **Jordan Shockley (Lead-PI)**, Edwin Ritchey, and Josh McGrath

Notes: Leading the economic research and extension component of the grant

Title of Project: Precision Agriculture's Impact on Kentucky Farmers' Carbon Footprint

Source of Support: United States Department of Agriculture. CSREES-Special Grant through Hatch Funds

Amount Awarded: \$45,051 (Total)

Effective and Expiration Dates: 2010-2012

Collaborators: Carl Dillon and **Jordan Shockley (Co-PI)**

Notes: Contributed to the economic analyses

Title of Project: Whole Farm Analysis of Edamame Production in Kentucky

Source of Support: United States Department of Agriculture. CSREES-Special Grant through Hatch Funds

Amount Awarded: \$49,096 (Total)

Effective and Expiration Dates: 2009-2012

Collaborators: Carl Dillon and **Jordan Shockley (Co-PI)**

Notes: Contributed to the economic analyses

Detailed Description of Grants in Review: \$0 (Total)

Detailed Description of Grants Unfunded: \$30,601,547 (Total)

Title of Project: Carbon & Cattle - Managing Risk in the New Carbon Economy

Source of Support: NIFA - Renewable Resources Extension Act and National Focus Fund Projects

Amount Requested: \$135,374

Effective and Expiration Dates: 9/2023-8/2025

Collaborators: Tiffany Dowell Lashmet, **Jordan Shockley (Co-PI)**

Title of Project: Leveraging diverse partnerships to advance cereal rye breeding and market development across the Southeast.

Source of Support: Foundation for Food and Agriculture Research

Amount Requested: \$676,080

Effective and Expiration Dates: 1/2023-12/2028

Collaborators: David Van Sanford, Chad Lee, Tim Phillips, and **Jordan Shockley (Co-PI)**

Title of Project: Can Organic Inspectors be Utilized in the Development of Carbon Markets for Specialty Crops

Source of Support: Kentucky Department of Agriculture

Amount Requested: \$578,280

Effective and Expiration Dates: 2022-2024

Collaborators: Tyler Mark, **Jordan Shockley (Co-PI)**, Mark Williams and Shuoli Zhao

Title of Project: Carbon & Cattle: Managing Risk in the New Carbon Economy

Source of Support: Southern Risk Management Education Center

Amount Requested: \$99,632

Effective and Expiration Dates: 2023-2024

Collaborators: Tiffany Dowell Lashmet, **Jordan Shockley (Co-PI)**, Justin Benavidez

Title of Project: Soil Core Sampling for Carbon Stock Monitoring: Southern Region Training and Outreach

Source of Support: USDA-NRCS

Amount Requested: \$2,000,000

Effective and Expiration Dates: 2023-2026

Collaborators: Edwin Ritchey, Brad Lee, John Grove, **Jordan Shockley (Co-PI)**

Title of Project: Enhancing Soil Regeneration with Climate Smart Application of Poultry Litter via Equipment and Supply Chain Innovation and Market Expansion for Organic Production

Source of Support: USDA-Sustainable Ag Systems

Amount Requested: \$9,999,713 (\$750,000)

Effective and Expiration Dates: 2022-2027

Collaborators: Mike Popp, Trenton Roberts, Wesley Porter, Glen Rains, Randal Taylor, John Anderson, Matthew Bertucci, Walter Bottje, Kristofor Brye, Jada Thompson, Henty English, Nicole Fiorellio, Amy Shober, **Jordan Shockley (Co-PI)**, Amanda Ashworth, Phillip Owens

Title of Project: Determining Yield and Profitability of Different Corn Strategies: Year 2

Source of Support: Kentucky Corn Growers Association

Amount Requested: \$40,000

Effective and Expiration Dates: 2020-2021

Collaborators: Carrie Knott, Chad Lee, and **Jordan Shockley (Co-PI)**

Title of Project: Reducing Fusarium Head Blight Vomitoxin Levels through Agronomic Practices: Data Analysis
Source of Support: Kentucky Small Grain Growers Association
Amount Requested: \$17,000
Effective and Expiration Dates: 2020-2021
Collaborators: Katherine McLachlan, Carrie Knott, Carl Bradley, **Jordan Shockley (Co-PI)**

Title of Project: Benchmarking the use of cover crops to increase sustainability and competitiveness of US small and middle-sized farms
Source of Support: USDA – NIFA
Amount Requested: \$500,000
Effective and Expiration Dates: 2020-2023
Collaborators: Wei Ren, **Jordan Shockley (Co-PI)**, Brad Lee, Pierre-Andre Jacinthe, and Laura Lindsey

Title of Project: The RAD-P3 Initiative: Robotic engineering, Aerial imaging and Data modeling for the Improvement of Production, Phenology, and Profitability of Root Cropping Systems
Source of Support: USDA – Specialty Crop Research Initiative
Amount Requested: \$2,227,677
Effective and Expiration Dates: 2020-2024
Collaborators: Carolyn Butts-Wilmsmeyer, Robert Dixon, Kevin Tucker, Randall Pearson, Nima Yagin, Courtney Breckenridge, Elizabeth Wahle, Christopher Topp, **Jordan Shockley (Co-PI)**, Timothy Woods, Tyler Mark, and Olutoyosi Ajayi

Title of Project: Advancing Modern Wheat Nutrition to Sustain Yield and the Economics of Production
Source of Support: Siemer Milling Endowment Fund
Amount Requested: \$25,000
Effective and Expiration Dates: 2019-2020
Collaborators: John Grove, Edwin Ritchey, and **Jordan Shockley (Co-PI)**

Title of Project: Coordinated Soil Test Correlation to Populate “FRST” Database.
Source of Support: The 4R Research Fund
Amount Requested: \$1,449,893
Effective and Expiration Dates: 2019-2023
Collaborators: Joshua McGrath, Brian Arnall, Steve Culman, Pete Kleinman, Deanna Osmond, Amir Sadeghpour, Nathan Slaton, Doug Smith, John Spargo, Wade Thomason, Charles White, Joseph Dvorak, John Fulton, Joe Luck, Micheal Sama, **Jordan Shockley (Co-I)**

Title of Project: Overcoming Inefficiencies in the Forage Harvest System for Maximization of Feed Quality and Profitability
Source of Support: USDA-AFRI
Amount Requested: \$499,762
Effective and Expiration Dates: 2019-2022
Collaborators: Brian Luck, **Jordan Shockley (Co-PI)** and Mahmoud Sharara

Title of Project: IPM, Soil Management, and Economic Assessments on Slug Outbreaks in Soybean in the Mid-West US

Source of Support: USDA NIFA: Crop Protection and Pest Management

Amount Requested: \$324,720

Effective and Expiration Dates: 2018-2020

Collaborators: Raul Villanueva, Edwin Ritchey, **Jordan Shockley**, John Obrycki, Scott Stewart, and Nick Seiter

Title of Project: SMART FARM – Agricultural Water Management for the Right Amount and Quality of Water Entering and Leaving the Farm

Source of Support: USDA AFRI: Water for Food Production Systems

Amount Requested: \$4,997,349

Effective and Expiration Dates: 2017-2020

Collaborators: Joseph Dvorak, Michael Sama, Ole Wendroth, Dwayne Edwards, **Jordan Shockley**, Carrie Knott

Title of Project: Quantifying Soybean Yield Potential and Maximum Economic Returns for Environmental Conditions in Kentucky

Source of Support: Kentucky Soybean Promotion Board

Amount Requested: \$66,089

Effective and Expiration Dates: 2018-2019

Collaborators: Montserrat Salmeron, **Jordan Shockley**, Chad Lee, Carrie Knott, Edwin Ritchey

Title of Project: Overcoming Inefficiencies in the Forage Harvest System for Maximization of Feed Quality and Profitability

Source of Support: USDA-AFRI

Amount Requested: \$499,148

Effective and Expiration Dates: 2018-2021

Collaborators: Brian Luck and **Jordan Shockley**

Title of Project: Computation Skills Development for Next Generation Agriscience Professionals for Sustaining Data Driven Agriculture

Source of Support: USDA-NIFA Higher Education Challenge Grant

Amount Requested: \$749,927

Effective and Expiration Dates: 2017-2020

Collaborators: Dharmendra Sarawat, Dennis Buckmaster, Aaron Ault, James Krogmeier, Joseph Dvorak, Tanya Dvorak, **Jordan Shockley**, Michael Sama, Tyler Mark, Ajay Sharda, and Daniel Flippo

Title of Project: CPS: Medium: Enabling Real-Time Analysis of Complex Agricultural Systems using Automated Cyber-Physical Systems

Source of Support: National Science Foundation – Cyber-Physical Systems

Amount Requested: \$948,113

Effective and Expiration Dates: 2017-2019

Collaborators: Joe Dvorak, Ben Goff, Tyler Mark, Mike Montross, Michael Sama, Joshua Jackson, Kenneth Burdine, and **Jordan Shockley**

Title of Project: Assessing the Tradeoffs in Quality, Timeliness and Economics between Unmanned Aerial and Ground Platforms in Crop Monitoring

Source of Support: National Science Foundation – National Robotics Initiative

Amount Requested: \$628,393

Effective and Expiration Dates: 2017-2019

Collaborators: Joe Dvorak, Ben Goff, Tyler Mark, Mike Montross, Michael Sama, Kenneth Burdine, **Jordan Shockley**

Title of Project: Enabling Beginning Farmers and Veterans to Learn Effective Methods for Successful Farming in Western Kentucky

Source of Support: USDA-NIFA Beginning Farmer and Rancher Development Program

Amount Requested: \$599,991

Effective and Expiration Dates: 2017-2019

Collaborators: Raul Villanueva, Edwin Ritchey, Carrie Knott, Winston Dunwell, Carl Bradley, **Jordan Shockley**, Emily Pfeufer

Title of Project: Enhancing the Resiliency of Rural Communities with Transitioning Economics

Source of Support: USDA-NIFA National Feeds Fellowship

Amount Requested: \$241,000

Effective and Expiration Dates: 2017-2022

Collaborators: Alison Davis, Yuqing Zheng, Steven Buck, Tyler Mark, **Jordan Shockley**, Michael Reed, William Snell, Yoko Kusunose, Karen Rignall, Tim Woods, Wuyang Hu, Carl Dillon, David Freshwater, and Quinton Tyler

Title of Project: Computation Skills Development for Next Generation Agriscience Professionals for Sustaining Data Driven Agriculture

Source of Support: USDA-NIFA Higher Education Challenge Grant

Amount Requested: \$750,000

Effective and Expiration Dates: 2016-2019

Collaborators: Dennis Buckmaster, Aaron Ault, James Krogmeier, Dharmendra Sarawat, Joseph Dvorak, **Jordan Shockley**, Michael Sama, Tyler Mark, and Ajay Sharda

Title of Project: Mapping Yield and Quality in Forage Crops Using Unmanned Platforms

Source of Support: USDA, AFRI

Amount Requested: \$500,000

Effective and Expiration Dates: 2017-2019

Collaborators: Joe Dvorak, Michael Sama, Joshua Jackson, Michael Montross, Ben Goff, Tyler Mark, **Jordan Shockley**

Title of Project: Soil Health Synergy: Using Innovative Equipment and Technologies to Improve Soil Health, Increase Nitrogen Use Efficiency, and Reduce Sediment and Nutrient Loss from Grain Production Systems

Source of Support: Natural Resources Conservation Services: Conservation Innovations Grants

Amount Requested: \$1,905,705

Effective and Expiration Dates: 2016-2018

Collaborators: Edwin Ritchey, Joshua McGrath, Amy Shober, Forbes Walker, Michael Buschermohle, Don Tyler, Mark Coyne, Erin Haramoto, Brad Lee, A. Lee Myer, **Jordan Shockley**, Fran Sikora, D. Janine Sherrier, Shawn Tingle, Karen Gartley, John Spargo,

Title of Project: Planning an Integrated Farm Management Program for Enhanced Food Security

Source of Support: USDA, NIFA – Food Security Program

Amount Requested: \$142,701

Effective and Expiration Dates: 2015-2017

Collaborators: Carl Dillon, Steve Isaacs, **Jordan Shockley**, and Tyler Mark

TEACHING EXPERIENCE**Courses Taught at the University of Kentucky**

Dept. No.	Course Title	Credit Hours	Enrollment	Value of Course (out of 5)	Quality of Teaching (out of 5)
Fall 2025					
AEC 603-001	Extension Methodology: Developing a Successful Extension Program	1	TBD	N/A	N/A
Fall 2024					
AEC 441G-001	Agricultural Financial Management	3	11	N/A	N/A
Fall 2023					
AEC 441G-001	Agricultural Financial Management	3	26	N/A	N/A
Fall 2022					
AEC 441G-001	Agricultural Financial Management	3	27	N/A	N/A
Fall 2021					
AEC 441G-001	Agricultural Financial Management	3	29	N/A	N/A
Fall 2020					
AEC 441G-001	Agricultural Financial Management	3	26	4.86 Department – 4.24 College – 4.25	4.71 Department – 4.50 College – 4.48
Fall 2019					
AEC 441G-001	Agricultural Financial Management	3	25	5.00 Department – 4.40 College – 4.30	4.80 Department – 4.40 College – 4.30

Fall 2018					
AEC 441G-001	Agricultural Financial Management	3	24	4.90 Department – 4.30 College – 4.30	4.90 Department – 4.40 College – 4.40
Fall 2017					
AEC 441G-001	Agricultural Financial Management	3	33	4.60 Department – 4.30 College – 4.20	4.60 Department – 4.40 College – 4.30
Fall 2016					
AEC 441G-001	Agricultural Financial Management	3	27	4.88 Department – 4.19 College – 4.21 University – 4.15	4.88 Department – 4.36 College – 4.29 University – 4.24

Other Instructional Activities

Guest Lecture, University of Kentucky – PLS 302: Climate Change and Agriculture, 3-5-2024

Guest Lecture, University of Kentucky – AEC 110: Current Issues in Agricultural Economics, 9-7-2023

Guest Lecture, Utah State University – APEC 5940: U.S. Agricultural Policy Analysis 4-4-2023

Guest Lecture, University of Kentucky – PLS 302: Climate Change and Agriculture, 3-22-2023

Guest Lecture, University of Kentucky – AEC 110: Current Issues in Agricultural Economics, 9-8-2022

Guest Lecture, University of Kentucky – AEC 661: Programming Models in Agricultural Economics 4-27-2022

Guest Lecture, Utah State University – APEC 5940: U.S. Agricultural Policy Analysis 4-21-2022

Guest Lecture, University of Kentucky – AEC 661: Programming Models in Agricultural Economics 2-2-2022

Guest Lecture, University of Kentucky – GEN 100: Issues in Agriculture, Food and Environment, 10-7-2021

Guest Lecture, University of Kentucky – GEN 100: Issues in Agriculture, Food and Environment, 11-10-2020

Guest Lecture, Mississippi State University – FYE 1001: Smart Farming: Data-enabled agriculture, 9-14-2020

Guest Lecture, University of Kentucky – AEC 110: Current Issues in Agricultural Economics, 9-10-2020

- Guest Lecture**, University of Kentucky – GEN 100: Issues in Agriculture, Food and Environment, 10-1-2019
- Guest Lecture**, University of Kentucky – AEC 661: Programming Models in Agricultural Economics 9-17-2019
- Guest Lecture**, University of Kentucky – AEC 110: Current Issues in Agricultural Economics, 9-5-2019
- Guest Lecture**, University of Kentucky – AEC 661: Programming Models in Agricultural Economics 11-29-2018
- Guest Lecture**, University of Kentucky – UKC 130: Economics of Food and Agriculture, 9-20-2018
- Guest Lecture**, University of Kentucky – AEC 661: Programming Models in Agricultural Economics 9-18-2018
- Guest Lecture**, University of Kentucky – GEN 100: Issues in Agriculture, Food and Environment, 9-6-18
- Guest Lecture**, Eastern Kentucky University – AGR 350: Agricultural Marketing, 10-13-2017
- Guest Lecture**, University of Kentucky – AEC 661: Programming Models in Agricultural Economics 9-21-2017
- Guest Lecture**, Eastern Kentucky University – AGR 350: Agricultural Marketing, 5-2-2017
- Guest Lecture**, University of Kentucky – AEC 300: Energy Economic, 2-8-2016

STUDENT ACTIVITIES

Ph.D. Dissertation

Committee Member

Robert Ellis (Agricultural Economics) Graduated December 2024.

Mounica Talasila (Plant and Soil Science), Graduated May 2024.

Tyler Chevalier (Animal Science), Graduated May 2023.

Elzbieta Szuleta (Plant and Soil Science), Graduated May 2023

Katherine McLachlan Rod (Plant and Soil Science), Graduated May 2020.

Michele Vollaro (Agricultural Economics) Graduated December 2020.

Outside Examiner

Karla Landino (Biosystems and Agricultural Engineering), Graduated May 2023

Daniel Quinn (Plant and Soil Science), Graduated May 2021.

John Brunnquell (Animal and Food Science), Graduated May 2020.

Masters Thesis

Chair

Robert Ellis (Agricultural Economics), Graduated May 2020

Shelby Wade (Agricultural Economics), Graduated May 2019

Committee Member

Emily Marsh (Plant and Soil Science), Expected graduation May 2026

Robert Nalley (Plant and Soil Science), Graduated May 2024

Ryan Collins (Weed Science), Graduated May 2020

Lydia Fitzgerald (Plant and Soil Science), Graduated December 2019

Undergraduate Internships or Research Directed or Co-Directed at UK

Wyatt Lucas, Summer 2021, University of KY Cooperative Extension Service, Robinson Center for Appalachian Resource Sustainability

Dustin Liver, Summer 2021, University of KY Cooperative Extension Service, Woodford Co. Extension Office

Taylor Carney, Summer 2021, Kentucky Soybean Board

Ben Isaacs, Fall 2020, Research Project: "Business IQ Analysis"

Nick Whan, Spring 2020, Research Project: "Potential for the Production of Hops in Central Kentucky"

Cassidy Smith, Fall 2019, NextHome Custom Realty

Spencer Shouse, Summer 2019, Lawns of Perfection, LLC

Cody Burke, Summer 2018, Roode Feedyard

Misty Bean, Summer 2016, Archer Daniels Midland

Undergraduate Advising

Summer 2022-2023 – 1 advisee
Fall 2022-2023 – 3 advisees
Summer 2021-2022 – 3 advisees
Spring 2021-2022 – 4 advisees
Fall 2021-2022 – 5 advisees
Spring 2020-2021 – 4 advisees
Fall 2020-2021 – 5 advisees
Spring 2019-2020 – 6 advisees
Fall 2019-2020 – 6 advisees
Spring 2018-2019 – 6 advisees
Fall 2018-2019 – 6 advisees
Spring 2017-2018 – 5 advisees
Fall 2017-2018 – 5 advisees
Spring 2016-2017 – 4 advisees

UNIVERSITY ACTIVITIES

Role	Committee	Dates
<i>University Committees</i>		
Invited Panelist	New Faculty Orientation	2022
<i>College Committees</i>		
Invited Panelist	Graduate Student Success Team: Panel on Careers Outside Academia	2023
Member	APT Review Committee	2022-2024
Member	County Review Team: Jessamine, Bracken, Greenup, McCreary Counties	2022
Invited Panelist	P&T Beginnings	2021
Member	Assistant Dean of ANR Search Committee	2020
Member	County Review Team: Warren, Barren, and Clinton Counties	2016
Co-Chair	CAFÉ Strategic Initiatives: Agricultural Economics/Farm Management	2015-2016
Member	CAFÉ Strategic Initiatives: Data Management and Technology	2015-2016
<i>Departmental Committees</i>		
Member	Faculty Performance Evaluation Review Committee	2023-2024
Coordinator	Agribusiness Club Annual Trip to Raleigh, NC	2023
Member	Department Chair Search Committee	2023
Member	Graduate Program and Research Committee	2022-Present
Member	Regional/Rural Development Economics Faculty Search Committee	2022-2023
Member	Extension Grain Economist Faculty Search Committee	2022
Member	Ag Marketing Faculty Search Committee	2019
Member	Production/Resource Faculty Search Committee	2019

Member	Undergraduate Program Committee	2019-2021
Mentor	KAFC Beginning Farmer Business Mentor: Houston Howlett – Camp Nevin Farms	2018-2019
Member	Production/Resource Faculty Search Committee	2018-2019
Member	Regional/Rural Development Economics Faculty Search Committee	2018-2019
Member	Graduate Admissions Committee	2017-2019
Member	Graduate Program and Research Committee	2016-2019
Coordinator	Agribusiness Club Annual Trip to St. Louis, MO	2016
Member	2 nd Year Paper Review Committee	2016

PROFESSIONAL SERVICE

Peer Review Referee Service

- Southern Ag Today – Section Leader and reviewer
- KACAA Communications Awards reviewer (2023 & 2024)
- AAEA – Agribusiness Economics & Management Section Journal ad-hoc reviewer
- Journal of Agricultural and Applied Economics ad-hoc reviewer
- Journal of Precision Agriculture ad-hoc reviewer
- Agricultural Finance Review Journal ad-hoc reviewer
- Choices Journal ad-hoc reviewer
- Agronomy Journal ad-hoc reviewer
- Smart Agricultural Technology Journal ad-hoc reviewer
- USDA/NIFA Small Business Innovative Research Program Grant review panel (2019 & 2020)
- USDA/NIFA Farm Business Management and Benchmarking Program Grant review panel (2021)

International Professional Committees

International Society of Precision Agriculture (ISPA)

- Leader, Precision Agriculture Economics, Profitability, Adoption, and Risk Community (2018-2020)
- Vice Founding Leader, Precision Agriculture Economics, Profitability, Adoption, and Risk Community (2017-2018)
- Member (2015-Present)

National/Regional Profession Committees

Agricultural & Applied Economics Association

- Extension Section Past Chair (2023-2024)
- Extension Section Chair (2022-2023)
- Extension Section Chair Elect (2021-2022)
- Member (2015-Present)

American Society of Agronomy

- Certified Crop Advisor (CCA) Precision Agriculture Exam Committee Member (2020-2023)

Southern Extension Economics Committee

- President (2019-2020)
- Vice President (2018-2019)
- Treasurer (2017-2019)
- Member (2016-Present)

Southern Outlook Conference Organizational Committee

- Member (2017-2020)

North Central Farm Management Committee

- Member (2016-Present)

North Central Extension & Research Activity (NCERA) – 180: Precision Agriculture Technologies for Food, Fiber, and Energy Production

- Member (2016-Present)

North Central Extension Farm Technology Economics Network

- Member (2016-Present)

Southern Cover Crops Council

- State Representative (2016-2020)

State Professional Committees

Kentucky Farm Bureau

- Ex-Officio member of the Environmental Stewardship Advisory Committee (2024, 2025)

The Rye Project

- Member of the steering committee (2021- present)

Kentucky Ag Development Board

- Focus Group for Forage and Grain County Ag Investment Programs (2021)