

## **Tyler B. Mark, Ph.D.**

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### **EXPERIENCE**

- 07/2019-Present **Director of Graduate Studies, University of Kentucky**, Department of Agricultural Economics.
- 01/2020-Present **Associate Professor, University of Kentucky**, Department of Agricultural Economics, 58% Research/22% Teaching/15% Administration/ 5% Service
- 01/2014-01/2020 **Assistant Professor, University of Kentucky**, Department of Agricultural Economics, 60% Research/40% Teaching
- 08/2010-12/2013 **Assistant Professor, Morehead State University**, Department of Agricultural Sciences, 100% Teaching
- 08/2006-08/2010 **Graduate Research Assistant, Louisiana State University**, Department of Agricultural Economics and Agribusiness (Supervisor: Dr. Michael Salassi)
- 08/2004-03/2006 **Graduate Research Assistant, Purdue University**, Department of Agricultural Economics (Supervisors: Dr. Michael Boehlje and Dr. Allan Gray)

### **EDUCATION**

- 12/2010 **Ph.D., Louisiana State University**, Baton Rouge, LA, in Agricultural Economics, Chair: Michael Salassi  
*Dissertation:* Cellulosic ethanol in Louisiana: a three part economic analysis of feedstocks, pricing strategies, and location strategies.
- 05/2006 **M.S., Purdue University**, West Lafayette, IN, in Agricultural Economics, Co-Chairs: Michael Boehlje and Allan Gray  
*Thesis:* The growth potential for the Indiana livestock industries.
- 05/2004 **B.S., University of Kentucky**, Lexington, KY, in Agricultural Economics

### **Expertise**

Production Economics, Farm Management, Hemp, Digital Agriculture, Simulation, Precision Dairy

### **HONORS AND AWARDS**

1. 2020 Research/Extension Impact Award, University of Kentucky College of Agriculture, Food and Environment. Co-Winners Dr. William Snell and Mr. Jonathan Shepherd.
2. 2018 Southern Agricultural Economics Association (SAEA) Outstanding M.S. Thesis Award winner Benjamin Martin's Advisor
3. 2016 Golden Quill Award for the most outstanding article published in the Journal of American Society Farm Managers and Rural Appraiser

4. 2014 C-FARE/AAEA Early Career Professional Leadership Award

## PUBLICATIONS

(\* denotes senior or shared senior authorship; \*\*denotes graduate student;  
\*\*\*denotes undergraduate student)

### Refereed Journal Articles

1. Martinez, C., A. Smith, **T.B. Mark**, and P. Goeringer. 2022. Challenges with Developing an Extension Program for Markets Evolving under an Uncertain Framework: Lessons from Program Development for Carbon and Hemp Markets. *Forthcoming in Applied Economics Teaching Resources*.
2. Alison, J.\*\*\*, **T.B. Mark**, K. Burdine, and J. Shockley. 2022. A Hedonic Analysis of Factors Impacting the Value of Planters on the Used Machinery Market. *Forthcoming Agricultural and Resource Economic Review*.
3. Shockley, J., C. Dillon, J. Lowenberg-DeBoer, and **T.B. Mark**. 2021. "How will Regulation Influence Commercial Viability of Autonomous Equipment in U.S. Production Agriculture." *Applied Economic Perspectives and Policy*. <https://doi.org/10.1002/aep.13178>
4. Lowenberg-DeBoer, J., K. Behrendt, M-H. Ehlers, C. Dillon, A. Gabriel, I.Y. Huang, I. Kumwenda, **T.B. Mark**, A. Meyer-Aurich, G. Milics, K.O. Olgunju, S.M. Pedersen, J. Shockley, and D. Rose. 2021. "Lessons to be Learned in Adoption of Autonomous Equipment for Field Crops." *Applied Economic Perspectives and Policy*. <https://doi.org/10.1002/aep.13177>.
5. Richmond, M.D., R.C. Pearce, **T.B. Mark**, and W.A. Bailey. 2020. "The Effect of Suckercide Product and Application Rate on Chemical Topping of Burly Tobacco." *Tobacco Science*. January.
6. Kim, G., J. Schieffer, and **T.B. Mark**. 2020. "Do superfund sites affect local property values? Evidence from a spatial hedonic approach." *Economic Analysis and Policy*. Vol. 67. <https://doi.org/10.1016/j.eap.2020.05.007>
7. Shockley, J.M., **T.B. Mark**, K.H. Burdine, and L. Russell. 2020. "Financial Implications from Contracting Avian Influenza in the U.S. Broiler Industry." *Journal of Applied Farm Economics*. Vol. 3. Iss. 1. <https://docs.lib.purdue.edu/jafe/vol3/iss1/1>
8. Kim, G., M. Nemati, S.C. Buck, N. Pates, and **T.B. Mark**. 2020. "Recovering Forecast Distributions of Crop Composition: Method and Application to Kentucky Agriculture." *Sustainability*, 12(7), 3035. DOI:10.3390/su12072917.
9. **Mark, T.B.**, J. Shepherd, D. Olson, W. Snell, S. Proper, and S. Thornsby. 2020. Economic Viability of Industrial Hemp in the United States: A Review of State Pilot Programs. *Economic Research Service*. <https://www.ers.usda.gov/webdocs/publications/95930/eib-217.pdf?v=6894>. February.
10. Chen, B., S. Saghayan, and **T.B. Mark**. 2019. Substitute or Complementary: Relationship between U.S. Farmers' Adoption of Organic Farming and Direct Marketing. *British Food Journal*. Vol. 122. No. 2. Pg. 531-546. DOI: 10.1108/BFJ-01-2019-0016. (impact factor: 1.717)
11. Turner, A.P., M.P. Sama, L.S.G. McNeill, J.S. Dvorak, **T.B. Mark**, and M.D. Montross. 2019. A Discrete Event Simulation Model for Analysis of Farm Scale Grain Transportation Systems. *Computers and Electronics in Agriculture*. Vol. 167. DOI: 10.1016/j.compag.2019.105040. (impact factor: 3.171)

12. Doster, Howard, G. Ibendahl, N. Thompson, and **T.B. Mark**. 2019. "Surprise Moment Management." 2019. *Journal of the American Society of Farm Management Rural Appraisal*.
13. Thomas, E.B.,\*\*\* K.A. Dolecheck\*\*, **T.B. Mark\***, C.R. Eastwood, B.T. Dela Rue, and J.M. Bewley. 2019. A Decision Support Tool for Investment Analysis of Automated Estrus Detection Technologies for Grazing Dairy Herds in New Zealand. *Animal Production Science*. DOI: 10.1071/AN17730. (impact factor: 1.275)
14. Dolecheck, K.A.,\*\* M. Overton, **T.B. Mark\***, and J.M. Bewley\*. 2019. Estimating the Value of Infectious or Non-Infectious Lameness Prevention Strategies with Dairy Farms, as Influenced by Foot Disorders Incidence Rates and Prevention Effectiveness. *Journal of Dairy Science*. DOI:10.3168/jds.2018-14996 (impact factor: 3.082)
15. Dolecheck, K.A.,\*\* M. Overton, **T.B. Mark\***, and J.M. Bewley\*. 2019. Use of a Stochastic Simulation Model to Estimate the Cost Per Case of Digital Dermatitis, Sole Ulcer, and White Line Disease by Parity Group and Incidence Timing. *Journal of Dairy Science*. DOI: 10.3168/jds.2018-14901 (impact factor: 3.082)
16. Lawani, A.,\*\* M. Reed, **T.B. Mark**, and Y. Zheng. 2019. Quality and Price Competition on Short Term Apartment Rental Market: Evidence from Airbnb in Boston. *Regional Science and Urban Economics*. (impact factor: 2.092)
17. Dant, M.,\*\* K. Burdine, **T.B. Mark**, and B. Goff. 2019. Factors Affecting Hay Prices at Auction: A Hedonic Analysis. *Agronomy Journal*. 111:736-740. doi:10.2134/agronj2018.08.0524 (impact factor: 1.897)
18. Kim, G.,\*\* J.H. Seok\*\*, **T.B. Mark\***, M. Reed. 2018. The Price Relationship Between Organic and Non-Organic Vegetables in the U.S.: Evidence from Nielson Scanner Data. *Applied Economics*. DOI: 10.1080/00036846.2018.1524570. (impact factor: 0.75)
19. Kim, G.,\*\* J.H. Seok\*\*, **T.B. Mark\***. 2018. New Market Opportunities and Consumer Heterogeneity in the U.S. Organic Food Market. *Sustainability*. DOI:10.3390/su10093166. (impact factor: 2.075)
20. Alamri, Y.\*\* and **T.B. Mark\***. 2018. Functions of Wheat Supply and Demand in Saudi Arabia. *Journal of Agricultural Economics and Rural Development*.
21. Davis, T., **T.B. Mark**, and J. Shepherd. 2018. Simulating the Value of Crop Insurance and Pre-Harvest Marketing. *2018 Journal of American Society Farm Managers Rural Appraisers*.
22. Davis, T.D., **T.B. Mark**, and J. Shepherd. 2018. Using Case Farms to Teach Farm, Financial and Risk Management Concepts to Western Kentucky Grain Farmers. *Journal of Extension*.
23. Seok, J.H.,\*\* G. Kim\*\*, **T.B. Mark\***. 2017. The Impact of Minimum Wage on Food Away from Home Expenditure Using a Structural Equation Model. *International Journal of Food and Agricultural Economics*.
24. Salassi, M., A. Holzapfel, B. Hilbun, M. Deliberto, K. Gravois, H. Viator, L. Falconer, and **T.B. Mark**. 2017. Feedstock Crop Production Costs and Biofuel Feedstock Input Costs Associated with the Production of Energy Cane and Sweet Sorghum in the Southeastern United States. *BioEnergy Research*. DOI: 10.1007/s12155-017-9838-3. (impact factor: 2.487)
25. Davis, T.D., J. Shepherd, and **T.B. Mark**. 2017. The Case of Liquidity Problems and Management Alternatives during Periods of Low Grain Prices. *2017 Journal of ASFMRA*.

26. Kim, G.,\*\* and **T.B. Mark\***. 2017. Impacts of Corn Price and Imported Beef Price on Domestic Beef Price in South Korea. *Agricultural and Food Economics*. DOI: 10.1186/s40100-017-0074-0.
27. Jackson, J.,\*\* A. Turner,\*\* **T.B. Mark\***, and M. Montross\*. 2016. Densification of Biomass Using a Pilot Scale Flat Ring Roller Pellet Mill. *Fuel Processing Technology*. (impact factor: 3.752)
28. **Mark, T.B.\***, K. Burdine\*, J. Cessna, and E. Dohlman. 2016. The Effect of the Margin Protection Program for Dairy Producers. *Economic Research Report*. <http://www.ers.usda.gov/media/2137056/err214.pdf>. September.
29. **Mark, T.B.\***, T.W. Griffin, and B. Whitacre. 2016. The Role of Wireless Broadband Connectivity on ‘Big Data’ and the Agricultural Industry in the United States and Australia. *International Food and Agribusiness Management Review*. (impact factor: 0.545)
30. Griffin, T.W.\*, **T.B. Mark\***, S. Ferrell, T. Janzen, J. Bennett, and J. Maurer. 2016. Big Data Considerations for Rural Property Professionals. *2016 Journal of American Society Farm Managers Rural Appraisers*.
31. Griffin, T.W., G. Ibendahl, and **T.B. Mark\***. 2015. How Spatially Clustered are State-Level Farmland Values? *2015 Journal of American Society Farm Managers Rural Appraisers*.
32. Salassi, M.E., L.L. Falconer, **T.B. Mark**, M.A. Deliberto, B.M. Hilbun, and T.L. Cooper. 2015. Economic Potential for Energy Cane Production as a Cellulosic Biofuel Feedstock in the Southeastern United States. *AIMS Energy*. DOI: 10.3934/energy.2015.1.25.
33. **Mark, T.B.\***, K.H. Burdine, and G. Halich. 2014. How sensitive are the Frequencies and Magnitudes of MPP-Dairy. *Journal of Agribusiness*.
34. Griffin, T.W., **T.B. Mark**, D.L. Dobbins, and J.M. Lowenberg-DeBoer. 2014. Estimating Whole Farm Costs of Conducting On-farm Research on Midwestern US Corn and Soybean Farms: A Linear Programming Approach. *International Journal of Agricultural Management*. DOI: 10.5836/ijam/2014-01-04.
35. M.E. Salassi, K. Brown, B.M. Hilbun, M.A. Deliberto, K.A. Gravois, **T.B. Mark**, and L.L. Falconer. 2014. Farm-Scale Cost of Producing Perennial Energy Cane as a Biofuel Feedstock. *Bioenergy Research*. DOI: 10.1007/s12155-013-9390-8. (impact factor: 3.398)
36. **Mark, T.B.\***, J.D. Detre, P.M. Darby, and M.E. Salassi. 2014. Energy Cane Usage for Cellulosic Ethanol: Estimation of Feedstock Costs. *International Journal of Agricultural Management*. DOI: 10.5836/ijam/2014-02-04.
37. **Mark, T.B.\***, J. Detre, J. D’Antoni, and A. Mishra. 2012. Factors Influencing Farm Operator Expectations on Future Levels of Government Support. *2012 Journal of the American Society of Farm Managers and Rural Appraisers*.
38. Detre, J.\*, **Mark, T.B.\***, and A. Mishra. 2011. Linkage between Direct Marketing and Farm Income: Double Hurdle Approach. *Agribusiness: an International Journal*. DOI: 10.1002/agr.20248.
39. Detre, J.\*, **T.B. Mark\***, B. Clark. 2010. Understanding Why College Educated Millennials Shop at Farmers' Markets: An Analysis of Students at Louisiana State University. *Journal of Food Distribution Research*.
40. **Mark, T.B.\***, J. Detre, M. Boehlje, A. Gray, and B. Joern. 2010. Is Growing Livestock Inventories a Sustainable Initiative Given Phosphorus Crop Removal

Regulations. 2010 *Journal of the American Society of Farm Managers and Rural Appraisers*.

41. Gillespie, J., **T.B. Mark**, C. Sandretto, and R. Nehring. 2009. Computerized Technology Adoption Among Farms in the U.S. Dairy Industry. 2009 *Journal of the American Society of Farm Managers and Rural Appraisers*.
42. Lusk, J.L., J. Brown, **T.B. Mark**, I. Proseku, R. Thompson, and J. Welsh. 2006. Consumer Behavior and Country of Origin Labeling. *Review of Agricultural Economics*.

### Work in Progress

1. Feizy, S.\*\* , E. Underwood\*\*\*, **T.B. Mark**, and J. Alison. Do Different Auction Venues Generate Meaningful Divergence in Prices? The Case of Used Planters. *In submission*.
2. Falkner, A.\*\* , J. Kolodinsky, **T.B. Mark**, W. Snell, R. Hill, A. Luke\*\*, J. Shepherd\*\*, and H. Lacasse\*\*. The Reintroduction of Hemp in the United States: A Content Analysis of State and Tribal Hemp Production Plans. *Revise and Resubmit*.
3. Jeong, H.\*\* P. Appuhamilage, and **T.B. Mark**. A Study on THC Level of Industrial Hemp in Kentucky: Agronomic and Economic Factors.
4. Appuhamilage, P. **T.B. Mark**, and D. Mooney. Access to Credit: Hemp Farmers in the United States. *In submission*.
5. Wang, M.\*\* , D. Mooney, P. Appuhamilage, R. Hill, **T.B. Mark**, and D. Thilmany. Hemp Cultivation and Efficient Regulation of Pollen Dispersal in Variated Landscapes.
6. Appuhamilage, P., H. Jeong\*\*, and **T.B. Mark**. Factors Affecting Farmers' Share of Industrial Hemp: A Case of Kentucky Hemp Farmers.
7. Dahal. M.\*\* , B. Campbell, A. Rabinowitz, B. McFadden, and **T.B. Mark**. Consumer Preference and Willingness to Pay for FDA Certified CBD Oil: Evidence from Choice Experiment. *In submission*
8. Pates, N. and **T.B. Mark**. Production Throttles: An Analysis of the Yield Drag and Pre-Plant Pricing on Corn Production in the US.
9. Pates, N., G. Kim, **T.B. Mark**, and M. Ritter. Windfalls or Wind Falls? The Local Effects of Turbine Development on U.S. Agricultural Land Values.
10. **Mark, T.B.** and D. Wray-Cahen. Environmental, Social, and Economic Impacts of Implementing Sustainable Intensification in Agriculture at Scale. *Invited manuscript by CAST <https://www.cast-science.org/>*
11. Kim, G. and **T.B. Mark**. Factors Affecting Heterogeneous Agricultural Land: The Case of Kentucky.
12. Lacasse, H.\*\* , Y. Zheng, J. Kolodinsky, J. Buzzas, and **T.B. Mark**. Major Market Landscape for Hemp Food and Ingredients.
13. Dant, M.\*\* **T.B. Mark\***, K.H. Burdine, and B. Goff. The Potential Risk Reduction Impact of the Non-insured Crop Disaster Assistance (NAP) Program for Alfalfa Producers.
14. Seok, J.H., G. Kim, and **T.B. Mark**. Does Agricultural Growth Lead to Methane Emissions?
15. Martin, B.\*\* , **T.B. Mark\***, J. Shockley, and T. Davis. Determinants of Firm-Level Food Corn Contract Decisions.
16. Kim, G. and **T.B. Mark**. What Factors make Consumers in the U.S. buy Hemp Products? Evidence from Nielsen Consumer Panel Data. *Revise and Resubmit*.
17. Ellis, R.\*\* and **T.B. Mark**. Utilizing Auction Sale Data to Estimate the Value of Used

Combine Harvesters in the US and Canada.

### Book Chapters

1. **Mark, T. B.**, W. Snell. 2019. Chapter 7: Economic Issues and Perspectives for Industrial Hemp. In: D.W. Williams, editor, *Industrial Hemp as a Modern Commodity Crop*, ASA CSSA and SSSA, Madison, WI. p. 109-121. doi:10.2134/industrialhemp.c7
2. Griffin, T.W., J.M. Shockley, and **T.B. Mark**. 2018. Economics of Precision Agriculture. *Precision Agricultural Basics*. Editors: D.K. Shannon, D.E. Clay, and N.R. Kitchen. ASA, CSSA, and SSSA, Madison, WI. DOI:10.2134/precisionagbasics.2018.frontmatter.

### Other Refereed Manuscripts

1. Ellis, R.,\*\* **T.B. Mark**. 2022. Evaluating the Effect of Precision Agriculture Technologies on Harvesting Combine Values in North America. *23<sup>rd</sup> International Farm Management Congress Conference Proceedings*. Vol. 1. July.
2. Ellis, R.,\*\* D. Byrne, **T.B. Mark**. 2022. Life Cycle Cost and Analysis of Implementing Drain Tile System in Row Crop Operations. *23<sup>rd</sup> International Farm Management Congress Conference Proceedings*. Vol. 1. July.
3. Richard, J.,\*\* and **T.B. Mark\***. 2017. Precision Dairy Herd Management, a Quantile Approach. *21<sup>th</sup> International Farm Management Congress Conference Proceedings*. Vol. 1. July.
4. Martin, B., \*\* C. Dillon, **T.B. Mark**, and T. Davis. 2017. A Whole Farm Analysis of the Implications of Variable Maturity Groups on Harvest Logistics and Net Returns. *Precision Agriculture '17: 11<sup>th</sup> European Conference on Precision Agriculture*. Editors: J.A. Taylor, D. Cammarano, A. Prashar, and A. Hamilton. Cambridge University Press.
5. Dillon, C., J. Shockley, and **T.B. Mark**. 2017. The Sensitivity of Economic Gains from High-Speed Planting. *Precision Agriculture '17: 11<sup>th</sup> European Conference on Precision Agriculture*. Editors: J.A. Taylor, D. Cammarano, A. Prashar, and A. Hamilton. Cambridge University Press.
6. Shockley, J., **T.B. Mark**, and C. Dillon. 2017. Educating Producers on the Profitability of Precision Agriculture Technologies. *Precision Agriculture '17: 11<sup>th</sup> European Conference on Precision Agriculture*. Editors: J.A. Taylor, D. Cammarano, A. Prashar, and A. Hamilton. Cambridge University Press.
7. Griffin, T.W., G. Ibendahl, A. Sharda, **T.B. Mark**, I. Ciampitti, and K. Herbel. 2015. Optimal Sizing of Harvest Equipment to Wheat Acreage in Kansas under Weather Uncertainty. *20<sup>th</sup> International Farm Management Congress Conference Proceedings*.
8. Whitacre, B.E., **T.B. Mark**, and T.W. Griffin. 2014. How Connected are Our Farms? *Choices*.

### Case Studies and Non-Refereed Publications

1. Gasic, K., C. Saski, J. Adelberg, K. Baumgartner, P. Brannen, D. Chavez, T. Gradzielt, R. Hammerschmid, A. Lezzonib, B. Koc, **T.B. Mark**, J. Melgar, G. Reighard, G. Schnabel, N. Tharayil, and M. Vassalos. 2021. "Solutions to the Armillaria Root Rot Affecting the US Stone Fruit Industry." Vol. 56. Iss. 9. *American Society of Horticulture Science*.



2. Kolodinsky, J., H. Darby, S. Kostell, **T.B. Mark**, E. Roy, E. von Wettberg, H. Lacasse, G. Sassi, and W. Wang. 2021. Developing Metrics for Noval Value-Added Products: The Case of Hemp in Vermont. *White Paper Developed for the ARS Food Systems Research Center*.
3. Cessna, J., **T.B. Mark\***, K. Burdine\*, and E. Dohlman. 2017. The Effects of the Margin Protection Program for Dairy Producers. *Amber Waves*. February 6. <https://www.ers.usda.gov/amber-waves/2017/januaryfebruary/historical-analysis-of-mpp-dairy-suggests-limited-impact-on-average-margins-but-considerable-potential-for-risk-reduction/>
4. Griffin, T.W., A. Sharda, **T.B. Mark**, G. Ibendahl, M. Buschermohle, L. Haag, and E. Barnes. 2015. Optimal Cotton Acreage Allocation for Machinery Complements under Weather Uncertainty. *2015 American Society of Agricultural and Biological Engineers Annual International Meeting*. doi:10.13031/aim.20152185015
5. Darby, P.M., J.D. Detre, **T.B. Mark\***, and M.E. Salassi. 2013. A Sugar Crossroad: Is Biomass an Opportunity or a Problem? *American Journal of Agricultural Economics*. DOI:10.1093/ajae/aas096.

### Extension Publications

1. Ellis, R.\*\* and **T. Mark**. 2022. Examining the Used Combine Market. <https://southernagtoday.org/2022/04/examining-the-used-combine-market/>. April
2. **Mark, T.**, 2022. Hemp Review and Outlook. <https://southernagtoday.org/2022/01/hemp-review-and-outlook/>. January.
3. Snell, W., K. Burdine, J. Shockley, J. Stowe, G. Halich, T. Woods, **T. Mark**, J. Shepherd, J. Pierce, and J. Stringer. 2021. Ag Economic Situation & Outlook U.S. and Kentucky. <https://agecon.ca.uky.edu/ag-economic-situation-outlook>. December.
4. Rudolph, R., J. Larson, A. Sheffield, J. Shepherd, **T. Mark**, and N. Gauthier. 2021. Rotating Cut Flowers Within a Tomato High Tunnel Production System. [https://www.uky.edu/ccd/sites/www.uky.edu.ccd/files/HTflowers\\_tomatoes.pdf](https://www.uky.edu/ccd/sites/www.uky.edu.ccd/files/HTflowers_tomatoes.pdf). December.
5. Shepherd, J.D., P. Goeringer, and **T.B. Mark**. 2021. Hemp Contract Considerations. <https://agecon.ca.uky.edu/hemp-contract-considerations>. March.
6. Shepherd, J.D. and **T.B. Mark**. 2021. Continued Declines in Hemp Profitability with Marginal Profit Potential in 2021. <https://agecon.ca.uky.edu/continued-declines-hemp-profitability-mixed-marginal-profit-potential-2021>. January.
7. Shepherd, J.D. and **T.B. Mark**. 2020. Estimates of What it is Going to Cost Me to Destroy my “HOT” Hemp Crop. <https://agecon.ca.uky.edu/estimates-what-it-going-cost-me-destroy-my-hot-hemp-crop>. November.
8. Shepherd, J.D. and **T.B. Mark**. 2020. Ag, Food, and Credit Markets Amidst the COVID-19 Crisis. *Economic & Policy Update*. <https://agecon.ca.uky.edu/files/extbluesheetmar2020.pdf>. March.
9. Shepherd, J.D., L. Williams, **T.B. Mark**, and J. Pierce. 2020. What Farmers Need to Know: SBA Paycheck Protection Program Loan (PPP). *Economic & Policy Update*. <https://agecon.ca.uky.edu/files/extbluesheetapr2020.pdf>. April.
10. **Mark, T.B.**, J.D. Shepherd, and W. Snell. 2019. Highlights from the USDA’s “Interim Final Rule” Governing Hemp. *Economic & Policy Update*. <http://agecon.ca.uky.edu/files/extbluesheetnov2019.pdf>. November.
11. Shepherd, J.D. and **T.B. Mark**. 2019. The Economics of Hemp Production in Kentucky.

*Economic & Policy Update.*

<http://www.uky.edu/Ag/AgEcon/pubs/extbluesheetMar1920.pdf>. March.

12. Snell, W., **T.B. Mark**, J.D. Shepherd. 2019. Economists' Viewpoints Surrounding the Hemp Boom: Part 1. *Economic & Policy Update*. (Published by multiple outlets) <http://www.uky.edu/Ag/AgEcon/pubs/extbluesheetFeb1940.pdf>. February
13. Shepherd, J.D. and **T.B. Mark**. Industrial Hemp Budgets. 2019. <http://www.uky.edu/Ag/AgEcon/extbudgets.php>
14. Richard, J.A.,\*\* K.J. Bryant, **T.B. Mark**, and N.A. Slaton. 2018. Economic Optimum Potassium Rate for Soybean Production in Arkansas. *Arkansas Soil Fertility Studies 2017*. Editor: Nathan A. Slaton. March. <https://arkansas-ag-news.uark.edu/pdf/649.pdf>
15. Shockley, J., and **T.B. Mark**. 2017. Days Suitable for Fieldwork in Kentucky. Lexington, KY: University of Kentucky Agricultural Communications Services. AEC Extension 101. [www.uky.edu/Ag/AgEcon/pubs/extSFW32.pdf](http://www.uky.edu/Ag/AgEcon/pubs/extSFW32.pdf).
16. Townsend, O.,\*\* K. Burdine, and **T.B. Mark**. 2017. The History and Class Pricing of Federal Milk Marketing Orders. AEC 2017-13. September.
17. Townsend, O.,\*\* K. Burdine, and **T.B. Mark**. 2017. The Unique Qualities of the Southern Milk Marketing Orders. AEC 2017-12. September.

### Popular Press

1. Burdine, K. and **T.B. Mark**, 2016. Dairy Market Continues to Struggle. *Cow Country News*. December. (Published by multiple outlets)
2. Burdine, K. and **T.B. Mark**. 2016. Dairy Market Continues to Struggle. *Dairy Notes*. UK Cooperative Extension. December. <https://afs.ca.uky.edu/content/dairy-market-continues-struggle> (Published by multiple outlets)

### Quotes

1. Hemp Benchmarks. 2022. [Where Does the U.S. Hemp Industry Go From Here?](#) May 11, 2022.
2. Global Hemp Association. 2021. Moving Hemp Forward. December 7, 2021. <https://ms-my.facebook.com/MandiLynnKerr/videos/moving-hemp-forward-with-mandi-kerr-and-tyler-mark/924425221836638/>
3. Beckerman, J. 2021. Hemp Barons. November, 17, 2021. <https://podcasts.apple.com/us/podcast/tyler-mark-university-of-kentucky/id1455758113?i=1000542155676>
4. Global Hemp Association. 2021. R&D Projects. November 10, 2021. <https://www.youtube.com/watch?v=KJTfS4TdVRk>.
5. Quinton, S. 2021. The Hemp Boom is Over. What Now? 'Stateline. July 9, 2021. <https://www.pewtrusts.org/en/research-and-analysis/blogs/stateline/2021/07/09/the-hemp-boom-is-over-what-now>.
6. Silva, K. 2021. National Hemp Survey on 'Across The Fence'. March 31, 2021. <https://www.youtube.com/watch?v=7BDGJuX7UOg>.
7. Booth, J. 2021. Hemp Growers Talk Risk Management During Virtual Ag Week. *Lancaster Farming*. January 15. [https://www.lancasterfarming.com/farming/industrial\\_hemp/hemp-growers-talk-risk-management-during-virtual-ag-week/article\\_d231530c-75e6-58a2-943f-](https://www.lancasterfarming.com/farming/industrial_hemp/hemp-growers-talk-risk-management-during-virtual-ag-week/article_d231530c-75e6-58a2-943f-)



- [5a26cb8d86a0.html](#)
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## Staff Papers and Reports

1. Sewell, T.,\*\* **T.B. Mark\***, W. Snell, E. Rogers, and L. Nickell. 2017. 2016 KDA Hemp Pilot Project Survey Results. KDA Report. April.
2. **Mark, T.B.\***, W. Snell, and E. Rogers. 2016. 2015 KDA Hemp Pilot Project Survey Results. KDA Report. May.
3. Chapman, H., S. Adhikari, **T.B. Mark**, and A. Davari. 2013. Advanced Monitoring and Automation for a Safer Relationship between Miners and the Mining Environment. *Department of Applied Engineering and Technology*, Morehead State University. Concept Paper. March 15.
4. Boehlje, M., A. Gray and **T.B. Mark\***. 2006. The Growth Potential for the Indiana Livestock Industries. *Department of Agricultural Economics, Purdue University*. Staff Paper #06-06, 2006.

## PRESENTATIONS & POSTERS

(# denotes invited; *italics denotes presentation*; underline denotes poster)

### International Professional and Peer Audiences

1. *Have we become too dependent on GNSS? Evaluating the implications of GNSS outage.* INFER Workshop on Agri-Tech Economics. Newport, United Kingdom. October 18-19, 2019.
2. *Big Data, Blockchain, and Autonomous Machinery can they be fully implemented before we address broadband access?* INFER Workshop on Agri-Tech Economics. Newport, United Kingdom. October 18-19, 2019.
3. *# Marketing and Economics.* Hemp in Uruguay. Montevideo, Uruguay. December 2-6, 2017.
4. *# Performance Measure Selection is Not a Straight Forward Process.* Manchester, United Kingdom. November 1, 2017.
5. Mobile Broadband Coverage in the United States: Its Implications for Telematics and Big Data Adoption. European Precision Conference on Precision Agriculture. Edinburgh, Scotland. July 16-20, 2017.
6. *Educating producers on the profitability of precision agriculture technologies.* European Conference on Precision Agriculture Conference. Scotland. July 16-20, 2017.
7. *The sensitivity of economic gains from high-speed planting.* European Conference on Precision Agriculture Conference. Scotland. July 16-20, 2017.
8. *A Whole Farm Analysis of the Implications of Variable Maturity Groups on Harvest Logistics and Net Returns.* European Conference on Precision Agriculture Conference. Edinburgh, Scotland. July 16-20, 2017.
9. *Precision Dairy Herd Management, A Quantile Approach.* 21<sup>th</sup> International Farm Management Congress. Edinburgh, Scotland. July 2-7, 2017.
10. Mobile Broadband Coverage in the United States: Its Implications for Telematics and Big Data Adoption. 21<sup>th</sup> International Farm Management Congress Conference. Edinburgh, Scotland. July 2-7, 2017.
11. Efficiency Gains from the Adoption of Precision Dairy Monitoring Technologies: Concept Framework. Conference on Precision Dairy Farming. Leeuwarden, Netherlands. June 21-23, 2016.

12. *Optimal Sizing of Harvest Equipment to Wheat Acreage in Kansas under Weather Uncertainty*. 20<sup>th</sup> International Farm Management Congress. Quebec, Canada, July 12-17, 2015.
13. Assessing the Impact of Direct Marketing in Overall Business Strategy: A Double Hurdle Approach. Annual International Food and Agribusiness Management Association Conference. Budapest, Hungary. June 20-23, 2009.

### **Domestic Professional and Peer Audiences**

1. # *Economics of Hemp Production*. 2022. USDA-ARS Hemp Webinar Series. <https://www.ars.usda.gov/northeast-area/geneva-ny/plant-genetic-resources-unit-pgru/docs/hemp-webinar-series/>. Virtual. May 5, 2022.
2. # *Factors Impacting Acreage and THC Levels of Hemp Producers in Kentucky*. 2022. CSU Hemp Working Group. Fort Collins, CO. March 28.
3. # *An Industry Finding Its Way*. 2022 Industrial Hemp Conference. Virtual Conference. March 15-16.
4. # *Hemp in the US*. 2022. S-1084: Industrial Hemp Production, Processing, and Marketing in the U.S. Virtual Conference. February 17.
5. # *Lessons Learned from Risk Management Extension Programming with Hemp*. Southern Agricultural Economics Association Annual Meeting. New Orleans, LA. February 12-15, 2022.
6. *Utilizing Auction Sale Data to Estimate the Value of Used Combine Harvesters in the US and Canada*. Southern Agricultural Economics Association Annual Meeting. New Orleans, LA. February 12-15, 2022.
7. *Social Acceptance of CBD Usage*. Southern Agricultural Economics Association Annual Meeting. New Orleans, LA. February 12-15, 2022.
8. *A Study on THC Level of Industrial Hemp in Kentucky: Agronomic and Economic Factors*. Southern Agricultural Economics Association Annual Meeting. New Orleans, LA. February 12-15, 2022.
9. *What Makes Hemp Economically Attractive: A Case of Kentucky Hemp Farmers*. Southern Agricultural Economics Association Annual Meeting. New Orleans, LA. February 12-15, 2022.
10. Evaluation the Economic Costs and Optimal Machinery for Cover Crops in Kentucky. Food, Water, and Energy Symposium. Lexington, KY. December 9, 2021.
11. # *Economics of Precision Technologies*. Food Animal Innovation Summit. Raleigh, NC. September 23, 2021.
12. # *Hemp Demand and Willingness to Pay for It*. Agricultural and Applied Economics Association Annual Meeting.” Austin, TX. August 1-August 3, 2021.
13. # *Demand for Hemp Products*. Agricultural and Applied Economics Association Annual Meeting.” Austin, TX. August 1-August 3, 2021.
14. # *Hemp Economic Landscape*. S-1084 Annual Meeting. February 11, 2021.
15. # *Hemp Markets Update, Including Consideration of the CBD Influence*. Hemp @ Year 1. ASTA Hemp Seed Webinar. December 15, 2020.
16. # *An Overview of the United States Hemp Pilot Programs from 2014-2019-What’s Ahead?*. Applied Agriculture Economics Association. October 27, 2020.
17. # *Production Economics and Contracting within the Hemp Industry*. Applied Agriculture Economics Association. October 6, 2020.
18. # *Economics and Marketing Overview*. 2020 National Hemp Research & Education

- Virtual Conference. July 8, 2020.
19. # *Hemp Economics Overview*. 2020. S-1084: Industrial Hemp Production, Processing, and Marketing in the U.S. Virtual Conference. March 19.
  20. # *Outcomes from the 2014 Pilot Programs*. 2020. USDA's 96<sup>th</sup> Annual Agricultural Outlook Forum: The Innovation Imperative: Shaping the Future of Agriculture. Washington D.C. February 20-21, 2020.
  21. # *Hemp: Market Opportunities and Challenges*. 2020. Uniting All For Agriculture: NASDA Winter Policy Conference. Arlington, Virginia. February 24-26, 2020.
  22. # *Big Data Present and Potential*. 2020. Agricultural Equipment Technology Conference. Louisville, KY. February 10-12, 2020.
  23. *Have Kentucky Grain Farmers Stopped Bleeding Working Capital? Prospects for the Next Five Years*. Southern Agricultural Economics Association Annual Meeting. Louisville, KY. February 1-4, 2020.
  24. *Mid-Season Production Throttles: An Analysis of the Intra-Seasonal Field Crop Yield-Price Relationship in the US*. Southern Agricultural Economics Association Annual Meeting. Louisville, KY. February 1-4, 2020.
  25. # *Potential Impacts of the Hemp Boom on the Tobacco Industry*. 49<sup>th</sup> Tobacco Workers Conference. Louisville, KY. January 20-23, 2020.
  26. Hemp Production in Uncertain Markets. Science of Hemp. Lexington, KY. October 10-11, 2019.
  27. # *Trojan Horse or Golden Ticket*. Science of Hemp. Lexington, KY. October 10-11, 2019.
  28. # *Precision Agriculture and Broadband*. Advanced Agriculture Valuation. Ithaca, NY. July 15-17, 2019.
  29. # *Hemp Economics*. Science of Hemp Symposium. USDA only. Washington, D.C. May 21, 2019.
  30. Crop Risk and Price Risk Management Evaluation Tool. Extension Risk Management Education National Conference. Louisville, KY. April 3-4, 2019.
  31. *Utilizing Farmland Sales Data as a Proxy for Estimating the Long-term Benefits of Cover Crops*. Southern Agricultural Economics Association Annual Meeting. Birmingham, AL. February 2-5, 2019.
  32. *Udder Efficiency: A Panel Stochastic Efficiency Model of the Relationship between Somatic Cell Count and Dairy Farming Practices*. Southern Agricultural Economics Association Annual Meeting. Birmingham, AL. February 2-5, 2019.
  33. *Simulated Risk Reduction Provided by New Farm Bill for Kentucky*. Southern Agricultural Economics Association Annual Meeting. Birmingham, AL. February 2-5, 2019.
  34. # *The Coming Impact of Rural Broadband and Connectivity*. PrecisionAg Vision Conference. Seattle, WA. January 14-16, 2019.
  35. # *Economics of Precision Agriculture*. University of Arizona Department of Agricultural & Resource Economics Seminar. Tucson, AZ. November 2, 2018.
  36. *Culling to achieve reduced somatic cell counts: An economic analysis*. American Dairy Science Association Annual Meeting. Knoxville, TN. June 24-27, 2018.
  37. *Estimating the dairy farm value of infectious or non-infectious lameness prevention strategies as influenced by pre-prevention hoof disease incidence rates and prevention effectiveness*. American Dairy Science Association Annual Meeting. Knoxville, TN. June 24-27, 2018.

38. Use of A Stochastic Model to Estimate Digital Dermatitis, Sole Ulcer, and White Line Disease Cost Per Case by Severity, Incidence Timing, and Parity Group in Dairy Cattle. American Dairy Science Association Annual Meeting. Knoxville, TN. June 24-27, 2018.
39. Multi-Year Financial Benefits of Risk Management for Corn and Soybean Farmers. Extension Risk Management Education National Conference. Milwaukee, WI. April 11-12, 2018.
40. Estimating Supply and Demand Functions of Saudi Arabian Wheat. Southern Agricultural Economics Association Annual Meeting. Jacksonville, FL. February 4-7, 2018.
41. Argentina...A Quest for its Return to International Prominence in Beef Production and Exports. Southern Agricultural Economics Association Annual Meeting. Jacksonville, FL. February 4-7, 2018.
42. *Potential Crop Rotation and Insurance Adoption Response to Changes in the Federal Crop Insurance Program.* Southern Agricultural Economics Association Annual Meeting. Jacksonville, FL. February 4-7, 2018.
43. *What is the Impact on Average Return and Risk from Possible Changes in the Crop Insurance Program?* Southern Agricultural Economics Association Annual Meeting. Jacksonville, FL. February 4-7, 2018.
44. *Who are Consuming Hemp Products in the U.S.? Evidence from Nielsen Homescan Data.* Southern Agricultural Economics Association Annual Meeting. Jacksonville, FL. February 4- 7, 2018.
45. *Determinants of Food Corn Contract Volumes.* Southern Agricultural Economics Association Annual Meeting. Jacksonville, FL. February 4-7, 2018.
46. *Estimating the Productivity of Wheat Production: An Implication of Stochastic Frontier Production Function Model.* Southern Agricultural Economics Association Annual Meeting. Jacksonville, FL. February 4-7, 2018.
47. *# Investment Decisions, Analytical Capabilities, and Big Data Learning Curves: What's a Dairy Farmer to Do?* Penn State Dairy Nutrition Workshop ARPAS Luncheon. Grantsville PA. November 15, 2017.
48. *# Producers are Excited about Precision Dairy, But is the Technology Economical?" Penn State Dairy Nutrition Workshop.* Grantsville PA. November 15, 2017.
49. *# Farm-Level Economics of Hemp.* 24<sup>th</sup> Annual Conference of the Hemp Industries Association. Lexington, KY. September 9-11, 2017
50. The Impact of Minimum Wage on Food Away from Home Expenditure Using Structural Equation Model. Agricultural and Applied Economics Association." Chicago, IL. July 30- August 1, 2017.
51. *Re-Envisioning the Margin Protection Program.* Agricultural and Applied Economics Association Annual Meeting." Chicago, IL. July 30-August 1, 2017.
52. Impact of UAV services on farmers' livelihood: Evidence from Benin in West Africa. 53<sup>rd</sup> Annual Conference, Association for International Agriculture and Rural Development. Washington, DC. June 4-6, 2017.
53. *Applied Research and Extension in Precision Agriculture across the North Central Region for Crops and Livestock.* North Central Farm Management Committee. Manhattan, KS. May 17-19, 2017.
54. Using Case Farms to Illustrate Risk Reduction Provided by Crop Insurance and Price



- Risk Tools for Western Kentucky Grain Farms. 2016 Extension Risk Management Education National Conference. Fort Worth, TX. April 27-28, 2016.
55. # *Hemp...What Role Might This Crop Play in Kentucky?* University of Louisville Conn Center Seminar Series. Louisville, KY. February 17, 2017.
  56. Using Quantile Regression to Estimate Dairy Production Models. Southern Agricultural Economics Association Annual Meeting. Mobile, AL February 4-7, 2017.
  57. Is Industrial Hemp for Seed, Fiber, and Grain Cost Competitive? Southern Agricultural Economics Association Annual Meeting. Mobile, AL February 4-7, 2017.
  58. Real-Time Ultrasound Technology Influence on Replacement Heifer Sales Price. Southern Agricultural Economics Association Annual Meeting. Mobile, AL February 4-7, 2017.
  59. *Regional Implications of the Margin Protection Program for Dairy*. Southern Agricultural Economics Association Annual Meeting. Mobile, AL. February 4-7, 2017.
  60. *Simulated Western Kentucky Grain Farm Cash Flows, Working Capital Erosion, and Evaluation of Risk Management Tools to Manage these Risks*. Southern Agricultural Economics Association Annual Meeting. Mobile, AL February 4-7, 2017.
  61. *Diversions and the Role they play in Determining Order 7 Milk Price*. Southern Agricultural Economics Association Annual Meeting. Mobile, AL February 4-7, 2017.
  62. *A Capital Investment Approach to Bred Heifer Valuation in an Expanding Cattle Market*. Southern Agricultural Economics Association Annual Meeting. Mobile, AL February 4-7, 2017.
  63. *Incorporating New Crops into Traditional Crop Rotations and the Environmental Implications*. Southern Agricultural Economics Association Annual Meeting. Mobile, AL February 4-7, 2017.
  64. *Determining the Optimal Decision to Store or Contract Sale Food-grade Corn, Field-grade Corn and Soybeans*. Southern Agricultural Economics Association Annual Meeting. Mobile, AL February 4-7, 2017.
  65. Exploring New Marketing Opportunities from the Nonlinear Relationship between Income and Organic Food Expenditure. American Economic Association. Chicago, IL. January 6-8, 2017.
  66. # *Where is the value?* 31<sup>st</sup> American Dairy Science Association Dairy Discovery Conference. “Big Data Dairy Management.” Chicago, IL. November 1-4, 2016.
  67. # *Hemp...Is it a silver bullet?* 2016 Southern Outlook Conference. Atlanta, GA. September 26-28, 2016.
  68. *Do Superfund Sites Affect Local Property Values? Evidence from a Spatial Hedonic Approach*. Agricultural and Applied Economics Association Annual Meeting.” Boston, MA. July 31-August 2, 2016.
  69. *Teaching Financial Risk Management Utilizing Western Kentucky Case Study Grain Farms*. National Farm Business Management Conference. Sioux Falls, SD. June 12-16, 2016.
  70. *Using Case Farms to Illustrate Risk Reduction Provided by Crop Insurance and Price Risk Tools for Western Kentucky Grain Farms*. Southern Extension Regional Activity (SERA-35). Vicksburg, MS. May 25-27, 2016.

71. *Investment Analysis of Automated Estrus Detection Technologies for New Zealand Grazing Herds*. National Conference on Undergraduate Research. Asheville, NC. April 7-9, 2016.
72. Combining Various Monitoring Technologies in Order to Maximize Decision-Making Capacity. Southern Agricultural Economics Association Annual Meeting. San Antonio, TX February 6-9, 2016.
73. A Capital Investment Approach to Bred Heifer Valuation in an Expanding Cattle Market. Southern Agricultural Economics Association Annual Meeting. San Antonio, TX February 6- 9, 2016.
74. Where Is The Feedstock Going To Come From To Power A Sustainable Kentucky Bioeconomy? Southern Agricultural Economics Association Annual Meeting. San Antonio, TX February 6-9, 2016.
75. Measuring the Impacts of the Superfund Sites in Jefferson County, Kentucky by Using a Spatial Hedonic Model.” Southern Agricultural Economics Association Annual Meeting. San Antonio, TX February 6-9, 2016.
76. How do US and Australian Beef Imports Impact the Hanwoo Beef Market in South Korea? Southern Agricultural Economics Association Annual Meeting. San Antonio, TX February 6- 9, 2016.
77. *Defining the Barriers to Telematics for Precision Agriculture: Connectivity Supply and Demand*. Southern Agricultural Economics Association Annual Meeting. San Antonio, TX February 6-9, 2016.
78. *Optimal Cotton Acreage Allocation for Machinery Complements under Weather Uncertainty*. ASABE Annual International Meeting. New Orleans, LA, July 26-29, 2015.
79. *Can Non-Insured Crop Disaster Assistance Program (NAP) with Buyup Provide Sufficient Revenue Protection for Hay Producers?* Southern Extension Economics Committee Meeting. Tampa, FL. June 15-17, 2015.
80. Where Is The Feedstock Going To Come From To Power A Sustainable Kentucky Bioeconomy? KY EPSCOR Annual Conference, Lexington, KY, May 22, 2015.
81. *Making Farm Management Decisions Based on Global Weather Events*. American Society of Agricultural and Biological Engineers 1<sup>st</sup> Climate Change Symposium: Adaption and Mitigation. Chicago, IL, May 3-5, 2015.
82. *Will the New Dairy Margin Protection Program Reduce Risk for Dairies?* Southern Agricultural Economics Association Annual Meeting. Atlanta, GA February 1-3, 2015.
83. *Assessing the Value of Broadband Connectivity for Big Data and Telematics: Technical Efficiency*. Southern Agricultural Economics Association Annual Meeting. Atlanta, GA February 1-3, 2015.
84. *# How Should Global Weather Patterns Affect My Farm Level Decisions?* 18<sup>th</sup> Annual National Conservation Systems Cotton & Rice Conference. Baton Rouge, LA. January 14- 16, 2015.
85. Economics of Producing Energy Cane as a Biofuel Feedstock in the Southern United States. USDA-NIFA AFRI Sustainable Bioenergy Annual Project Director Meeting. Arlington, VA. October 29-31, 2014.
86. How Do Global Weather Patterns Influence Days Suitable for Fieldwork? American Agricultural Economics Association. Minneapolis, MN. July 27-30,

- 2014.
87. *Value of Connectivity in Rural Areas: Case of Precision Agriculture Data*. 12<sup>th</sup> International Conference on Precision Agriculture. Sacramento, CA. July 20-23, 2014.
  88. *Dairy Producer Margin Protection Program: Of Value to Southern Dairy Operations?* Southern Extension Economics Committee Meeting. Chattanooga, TN. June 9-11, 2014
  89. *How do Global Weather Patterns Influence Days Suitable for Fieldwork*. Southern Extension Research Activity (SERA-35). Tillar, AR. May 21-23, 2014.
  90. *Revisiting Days Suitable for Fieldwork Relative to Global Climate Cycles*. Southern Agricultural Economics Association Annual Meeting. Dallas, TX February 2-5, 2014.
  91. Farmer's Willingness to Grow Biomass: The Eastern Kentucky Case. Southern Agricultural Economics Association Annual Meeting. Orlando, FL. February 2-6, 2013.
  92. *Eastern Kentucky Farmer's Willingness to Grow Biomass for Energy Production*. Southern Extension Research Activity (SERA-35). Vicksburg, MS. May 22-24, 2013.
  93. *The Agribusiness Program at Morehead State University*. Southern Extension Research Activity (SERA-35). Farmerville LA. May 23-25, 2012.
  94. *Spatial Econometric Approach to Yield Monitor Data Flow Delay and Evaluation of Existing Techniques for Automation*. American Society of Agricultural and Biological Engineers Annual Meeting. Louisville, KY. August 7-10, 2011.
  95. *Predicting Days Suitable for Fieldwork Based on El Nino*. American Society of Agricultural and Biological Engineers Annual Meeting. Louisville, KY. August 7-10, 2011.
  96. *Advanced Biofuel Production in Louisiana Sugar Mills: An Application of Real Options Valuation*. Agricultural and Applied Economics Association & Northeastern Agricultural and Resource Economics Association Joint Annual Meeting. Pittsburgh, PA. July 24-26, 2011.
  97. *Expectations, Perceptions, and Requirements for Academic Tenure*. Agricultural and Applied Economics Association & Northeastern Agricultural and Resource Economics Association Joint Annual Meeting. Pittsburgh, PA. July 24-26, 2011.
  98. *The Effect of US Energy Policy and Farm Program Payments on the Bio-Fuel Sector: A Regime-Switching Approach*. American Agricultural Economics Association. Denver, CO. July 25-27, 2010.
  99. *Is a Ph.D. Right for Me?* Southern Agricultural Economics Association Annual Meeting. Orlando, FL. February 6-9, 2010.
  100. *What does the introduction of energy crops mean for the crop mix and cellulosic ethanol plant location in Louisiana?* Southern Agricultural Economics Association Annual Meeting. Orlando, FL. February 6-9, 2010.
  101. *Breaking into the Cellulosic Ethanol Market: Capacity and Storage Strategies*. Southern Agricultural Economics Association Annual Meeting. Orlando, FL. February 6-9, 2010.
  102. *Production of Biomass in the Louisiana Sugarcane Belt: What would this mean for the Sugar Industry?* The Economics of Alternative Energy Sources and Globalization: The Road Ahead, Orlando, FL, November 15-17, 2009.
  103. *Linkage between Direct Marketing and Farm Income: Double Hurdle Approach*. Agricultural & Applied Economics Association Annual Meeting. Milwaukee, WI. July 26- 28, 2009.

104. *A Comparison of Pricing Strategies for Cellulosic Ethanol Processors*. Southern Extension Research Activity (SERA-35). Vicksburg, MS. May 27-29, 2009.
105. *Farm Operators Attitudes toward Farm Policy: A National Perspective*. Southern Agricultural Economics Association Annual Meeting. Atlanta, GA. February 1-3, 2009.
106. Understanding the Fresh Produce Shopping Habits of College Educated Millennials. Southern Agricultural Economics Association Annual Meeting. Atlanta, GA. February 1-3, 2009.
107. *Energy Cane Usage for Cellulosic Ethanol: Estimation of Feedstock Costs*. Southern Agricultural Economics Association Annual Meeting. Atlanta, GA. February 1-3, 2009.
108. *Expectations of Farm Policy: An Empirical Investigation*. NC-1014 Agricultural and Rural Finance Markets in Transition Annual Meeting. Kansas City, MO. September 25-26, 2008.
109. Assessing the Impacts of the Demand for Corn by the Ethanol Industry on Hog Production: Does Location Matter? American Agricultural Economics Association. Orlando, Florida. July 27-30, 2008.
110. Cellulosic Ethanol Production from Energy Cane: Estimation of Potential Feedstock Cost. Southern Agricultural Economics Association. Dallas, Texas. January 30, 2008.
111. *Growing the U.S. Livestock Economy: The Environmental (Phosphorus Assimilation) Challenge*. Challenges of Natural Resource Economics and Policy. New Orleans, LA. May 20-23, 2007.
112. *An Economic Evaluation of No-Till Burley Tobacco*. The 41<sup>st</sup> Tobacco Workers Conference. Nashville, TN. January. 22, 2004.

### **Commodity Group and Extension Audiences**

1. # *Economics and Markets: An Industry Finding Its Way*. 2022. Virtual Oregon State University-Agricultural Research Service National Hemp Industry Research Needs. November 15.
2. # *Challenges of Hemp Over the Past 7 Years and Into the Future*. 2022 Agricultural & Environmental Law Conference Agenda. Annapolis, MD. October 28.
3. # *University Research Highlights: An Industry Searching*. 2022. Southern Hemp Expo. Nashville, TN. August 18-20.
4. # *An Industry Finding Its Way*. 2022. NOCO Hemp Expo. Aurora, CO. March 23-25.
5. # *Hemp Economics in the US*. 2021. Michigan Assessors Association. Virtual Meeting. November 9.
6. # *Economics of Hemp*. 2021. 2021 Ohio Land Grant Hemp Conference: Looking Back to Plan for the Future. Virtual Meeting. March 5.
7. # *2021 Growing Season and Beyond*. 2021. 2021 Industrial Hemp Conference. Virtual Meeting. February 26.
8. # *Kentucky 2020 & Insurance Update*. 2021. Empire State Producers Expo. January 12, 2021.
9. # *Economics of Hemp Production*. Delaware Agriculture Week. January 11, 2021.
10. # *Current/Future Hemp Outlook*. University of Kentucky Virtual Hemp Field

- Day. December 8-9, 2020.
11. # *Potential for Hemp Fiber*. NextGen Webinar. November 6, 2020.
  12. # *Economics of Hemp in 2020 and Beyond*. Maryland Eastern Shores Virtual Hemp Field Day. November 5, 2020.
  13. # *Hemp Economics and Fiber*. NextGen Corporation. September 18.
  14. # *Hemp Economic Overview*. Vermont Train the Trainer Workshop. November 3, 2020.
  15. # *Hemp Economic Outlook*. Virginia Hemp Virtual Conference. September 10, 2020.
  16. # *Fun with Hemp*. Fifth Annual Florida Agricultural Policy Outlook Conference 2020. Lake Alfred, FL. February 27, 2020.
  17. # *Budgets, Risk Management, and Contracts*. 2020. A Grower's Guide to Kentucky Hemp Production. <https://hemp.ca.uky.edu/grower%20resources#AE>.
  18. # *Hemp Budgets and Marketing*. Corn Belt seed Conference 2020. Indianapolis, IN. February 5, 2020.
  19. # *Kentucky Perspective*. 2020 Wisconsin Agricultural Outlook Forum. Madison, WI. January 28, 2020.
  20. # *Hemp Economics and Budgets*. South Carolina Agribiz Expo. Florence, SC. January 15, 2020.
  21. # *Hemp for Kentucky*. Methodist Men's Ministry. Lexington, KY. January 13, 2020.
  22. # *Introduction to Hemp Production Series: Hemp Economics*. Webinar. ASA-CSSA-SSSA Tri Society. January 9, 2020.
  23. # *Uncertainties in the Hemp Market*. Kentucky Hemp Summit. Louisville, KY. December 4, 2019.
  24. # *Economic Aspects of Hemp Production*. Texas Hemp Production Workshop. Waco, TX. November 12, 2019.
  25. # *Hemp Economics*. ANR East Update. Winchester, KY. October 23, 2019.
  26. # *Hemp Outlook*. Scott County Farm City Field Day. Georgetown, KY. September 24, 2019.
  27. # *Hemp Potential*. USDA-RMA and USDA-FSA Visit. Lexington, KY. September 24, 2019.
  28. # *Economic Potential Risk*. Murray State University Hemp Field Day. Murray, KY. September 18, 2019.
  29. # *Economic Potential Risk*. UK Hemp Field Day. Lexington, KY. August 21, 2019.
  30. # *Hemp as a Potential Development Tool in Appalachia*. Appalachian Strong—Appalachian Regional Commission Annual Meeting. Asheville, NC. September 4-6, 2019.
  31. # *Hemp Economics Update*. Senator McConnell, Secretary Perdue, and Commissioner Quarles Roundtable. Lexington, KY. July 2, 2019.
  32. # *Hemp Economics*. KY-TN Ag Leadership Summit. Bowling Green, KY. June 26, 2019.
  33. # *Hemp Economics and Pilot Program Update*. National Industrial Hemp Regulators Conference. Minneapolis, MN. June 18-20, 2019.
  34. # *Hemp in the United States*. KCARD & Senate Ag Committee Staffers Visit. Lexington, KY. May 30, 2019.
  35. # *Hemp in the United States*. Farm Credit Administration. Washington, D.C. May 22,

- 2019.
36. # *Hemp Economics and Budgets*. 2019. Industrial Hemp Webinar University of Kentucky. Lexington, KY. February 12, 2019.
  37. # *Hemp Economics*. 2018 Kentucky Hemp Industry Association Spring Conference. Lexington, KY. April 3, 2018.
  38. Economical Potassium Use in Soybeans. Rohwer Research Station Agricultural Field Day. Rohwer, Arkansas. July 19, 2018.
  39. Is Industrial Hemp for Seed, Fiber and Grain Cost Competitive? UK Hemp Field Day. Lexington, KY. September 9, 2017.
  40. Economical Potassium Use in Soybeans. Rohwer Research Station Agricultural Field Day. Rohwer, Arkansas. July 20, 2017.
  41. # *Data Collection Process, Analysis, and Implementation of Findings*. Workshop on Marketing Locally Grown Farm Commodities and Food Products. Bowling Green, KY. November 20, 2015.
  42. # *KYCGA CORE Farm Program – Session 7: Family Farm Planning, Strategy, and Profitability*. Lexington, KY. February 19, 2015.
  43. # *Hemp...Up in Smoke or ?* Kentucky Farm Managers and Rural Appraisers Winter Meeting. Louisville, KY. January 23, 2014.
  44. Farmer’s Willingness to Grow Biomass: The Eastern Kentucky Case. Celebration of Student Scholarship. Morehead, KY. April 24, 2013.
  45. Population Issues in the Current Equine Industry. Celebration of Student Scholarship. Morehead, KY. April 24, 2013.
  46. # *Money Talks & Bioenergy Walks*. Maysville Farm & Family Night. Maysville, KY March 12, 2013.
  47. # *Basic Grain Marketing*. Grain Production. Are you ready for the Future of Agriculture Series? Morehead, KY. February 25, 2013.
  48. # *Marketing Strategies and Resources for the 21<sup>st</sup> Century*. Are you ready for the future of agriculture? Are you ready for the Future of Agriculture Series? Morehead, KY. February 19, 2013.
  49. *Developing a Biomass and Bioenergy Industry*. Morehead State University & University of Kentucky Bioenergy Field Day. Brooksville, KY. October 17, 2012.
  50. *ASFMRA Summer Education Week (SEW) for Academic Members*. American Society of Farm Managers and Rural Appraisers Summer Education Meeting. Des Moines, IA. July 15- 18, 2012.
  51. Real Time Ultrasound Body Measurement Impacts of Replacement Heifer Price: The Eastern Kentucky Case. A Celebration of Student Scholarship. Morehead, KY. April 25, 2012.
  52. Kentucky’s Potential for Wood Biofuel Production. Southern Agricultural Economics Association Annual Meeting. A Celebration of Student Scholarship. Morehead, KY. April 25, 2012.
  53. Kentucky Bio-Energy Assessment Project. A Celebration of Student Scholarship. Morehead, KY. April 25, 2012.
  54. Farmer’s Willingness to Grow Biomass for Energy Production: The Kentucky Case. A Celebration of Student Scholarship. Morehead, KY. April 25, 2012
  55. A Comparison of Pricing Strategies for Cellulosic Ethanol Processors: A Simulation Approach. International Biomass Conference and Expo. Denver, CO. April 16-19, 2012.



56. Real Time Ultrasound Body Measurement Impacts of Replacement Heifer Price: The Eastern Kentucky Case. Southern Agricultural Economics Association Annual Meeting. Birmingham, AL. February 4-7, 2012.
57. # *First Hand/First Year Panel*. 2011 New Faculty Orientation, Morehead, KY August 16, 2011.
58. Kentucky's Potential for Wood Biofuel Production. Southern Agricultural Economics Association Annual Meeting. Birmingham, AL. February 4-7, 2012. "Biomass Feedstock Cost and Impact of Biomass Production in Louisiana on the Domestic Sugar Market" Biofuels and Bioprocessing ACE Meeting. Baton Rouge, LA, December 16, 2009.
59. *Potential Growth of Indiana Livestock Industry*. Indiana Pork Board (Annual Meeting). West Lafayette, IN. November. 30, 2005.
60. *Potential Growth of Indiana Livestock Industry*. Indiana Livestock Alliance (Annual Meeting). Indianapolis, IN. November. 14, 2005.
61. *State of the State*. Indiana Extension Educator (IP-Video). West Lafayette, IN. November. 10, 2005.

### **Professional Meeting Symposia, Track Session, Workshops, and Conference Development**

1. **Co-Organizer**, Farm Credit Mid-America Strategic Planning Session for 2023-2025. Park City, UT. July 19-20, 2022.
2. **Co-Organizer**, Hemp: Identifying Issues Across the Value Chain. CRENET/AES Track Session. October 27, 2020.
3. **Co-Organizer**, National Hemp Conference. Fort Collins, CO. March 17-18, 2020.
4. **Co-Organizer**, Precision Dairy Farming 2017. Lexington, KY. May 29 – June 1, 2017.
5. **Co-Organizer**, Farm Financial Ratios, Investment Analysis, and Risk Management. Vojvodina Extension Service, Novi Sad, Serbia. March 16-21, 2015. (24-hour workshop)
6. **Co-Organizer**, Farm Investment and Risk Management. Institute for Science Application in Agriculture, Belgrade, Serbia. April 21-25, 2014. (16-hour workshop plus additional meetings with Serbian Extension Specialists)
7. **Co-Organizer**, Technology, Tools, and Apps to Manage Data Overload. American Society of Farm Managers and Rural Appraisers Summer Education Week. Omaha, NE. July 15, 2013. (8-hour workshop)
8. **Co-Organizer**, Grain Production. Sponsored by Maysville Kentucky Community and Technical College System, Southern States, and Morehead State University. February 25, 2013, Morehead, KY
9. **Co-Organizer**, Are you ready for the Future of Agriculture? Educational Series Sponsored by Farm Credit Mid-America, Maysville Kentucky Community and Technical College System, and Morehead State University. Each Tuesday, February 12 – March 5, 2013, Morehead, KY
10. **Co-Organizer**, Morehead State University & University of Kentucky Bioenergy Field Day, October 17, 2012, Brooksville, KY
11. **Co-Organizer**, Public Forum for Kentucky Agricultural Council, September 5, 2012, Morehead, KY
12. **Co-Organizer**, The Future of Energy in Eastern Kentucky...?, April 11, 2012, Morehead, KY.

13. **Co-Organizer and Presenter**, Determining the Right Graduate Degree for Me and Creating a Competitive Advantage when Entering the Job Market, Southern Agricultural Economics Association Annual Meeting. Orlando, FL. February 6-9, 2010.
14. **Co-Organizer**, Successfully Navigating the Tenure Process, Agricultural & Applied Economics Association Annual Meeting. Milwaukee, WI. July 26-28, 2009.

### **Referee Service**

Journal of Environmental Management (1-2013)  
 Journal of ASFMRA (6-2013; 5-2014; 4-2015; 3-2016, 4-2017, 5-2018, 6-2019, 3-2020)  
 Journal of Agriculture and Applied Economics (1-2015, 1-2016, 2-2017, 2-2018, 2-2019, 1-2020)  
 International Food and Agribusiness Management Review (1-2015, 1-2018, 1-2019)  
 Journal of Cotton Science (1-2016)  
 University of Sydney (1-2016, 1-2017)  
 Southern Agricultural Economics Association (2015, 2016, 2017)  
 Agricultural & Applied Economics Association (2015, 2016, 2017)  
 Journal of Applied Farm Economics (1-2017, 1-2018)  
 Precision Agriculture (1-2017, 1-2018, 1-2021)  
 Agribusiness: an International Journal (1-2017)  
 Peanut Science (1-2018)  
 International Journal of Agricultural Management (1-2018)  
 Choices (1-2018, 1-2019, 1-2020)  
 Agronomy (1-2019)  
 Journal of Human Sciences and Extension (1-2021)  
 Computers and Electronics in Agriculture (1-2019)  
 MIT Press (1-2019, 1-2020)  
 Land Use Policy (1-2020)  
 Center for Crop Diversity (1-2020)  
 Western Economic Forum (1-2020)  
 GCB-Bioenergy (2-2020)  
 PLOS-ONE (1-2021)  
 American Journal of Agricultural Economics (1-2021)  
 Journal of the Agricultural & Applied Economics Association (1-2022)

## **RESEARCH GRANTS**

### **Summary**

Currently Funded: \$21,838,953 (Total); \$3,020,494 (Control or Shared Control)  
 In Review: \$3,580,483 (Total); \$1,219,503 (Control or Shared Control)  
 Completed: \$42,788,600 (Total); \$1,286,000 (Control or Shared Control)  
 Travel: \$1,500  
 Morehead State University Needs Funding: 3,500

**Grants Currently Funded: \$21,838,953 (Total); \$3,020,494 (Control or Shared Control)**

Title of Project: Evaluating the U.S. Hemp Market: From Producers to Consumers

Source of Support: USDA-ERS Cooperative Agreement  
Amount of Request: \$140,000 (Total); \$140,000 (Shared Control)  
Effective and Expiration Dates: 10/15/2022 – 10/14/2024,  
Collaborators: **Tyler Mark** (PI: UKY) and Yuqing Zheng (Co-PI: UKY)  
Notes: Leading a nationwide evaluation of the hemp industry. Specifically, evaluating the potential growth of the industry and risk management tools.

Title of Project: Understanding the U.S. Hemp Industry: Current Structure and Challenges  
Source of Support: USDA-ERS Cooperative Agreement  
Amount of Request: \$30,000 (Total); \$30,000 (Shared Control)  
Effective and Expiration Dates: 10/15/2022 – 10/14/2023,  
Collaborators: **Tyler Mark** (PI: UKY)  
Notes: Leading a nationwide review of the Hemp Pilot Programs authorized by the 2018 Farm Bill.

Title of Project: Sustainable Aquaculture Production of High Omega-3-Containing Fish Using a Novel Feed Additive (Hemp).  
Source of Support: NIFA SAS  
Amount of Request: \$10,000,000 (Total); \$365,000 (Shared Control)  
Effective and Expiration Dates: 09/15/2021 – 09/14/2026,  
Collaborators: Brandy Phipps (PD: CSU), Craig Schluttenhofer (Co-PI: CSU), Waldemar Rossi (Co-PI: KSU), Seong Yun (Co-PI: MSU), Brian Kowalkowski (Co-PI: C of Menominee), Krishnakumar Nedunuri (Co-PI: CSU), **Tyler Mark** (Co-PI: UK)  
Notes: Co-Leading the economic research component of this grant.

Title of Project: Assessing Opportunities and Challenges of the Plant-Based Meat Alternatives: Consumer Preferences, Market Trends, and Production Responses  
Source of Support: NIFA Foundational  
Amount of Request: \$649,887 (Total); \$649,887 (Shared Control)  
Effective and Expiration Dates: 01/1/2022 – 12/31/2026,  
Collaborators: Shuoli Zhao (PD: UK), Yuqing Zheng (Co-PI: UK), Nick Pates (Co-PI: UK), Timothy Woods (Co-PI: UK), **Tyler Mark** (Co-PI: UK).  
Notes: Co-Leading the production economic research component of this grant.

Title of Project: Computational Skills Development for Next Generation AgriScience Professionals for Sustaining Data Driven Agriculture  
Source of Support: NIFA Higher Education Challenge  
Amount of Request: \$750,000 (Total); \$150,000 (Shared Control)  
Effective and Expiration Dates: 10/01/2020 – 9/30/2025,  
Collaborators: Dharmendra Saraswat (PI: Purdue), David Buckmaster (Co-PI: Purdue), Jeff Krogmeier (Co-PI: Purdue); Aaron Ault (Co-PI: Purdue), Joseph Dvorak (Co-PI: UKY), Tonya Dvorak (Co-PI: UKY), **Tyler Mark** (Co-PI: UKY), and Joseph Quansah (Co-PI: Tuskegee)  
Notes: I will be developing the economic components to these courses.

Title of Project: Fostering a well-rounded and sustainable hemp industry in the United States  
Source of Support: USDA-ARS

Amount of Request: \$768,076 (Total); \$161,099 (Shared Control)  
Effective and Expiration Dates: 10/01/2020 – 06/30/2023,  
Collaborators: Robert Houtz (PI: UKY), Bob Pearce (Co-PI: UKY), **Tyler Mark** (Co-PI: UKY), David Harmon (Co-PI: UKY), and Eric Vanzant (Co-PI: UKY).  
Notes: Funding for Post Doctoral Scholar.

Title of Project: Managing Risks in Hemp Production: Contract Development and Crop Insurance Decisions  
Source of Support: USDA-AFRI Foundational  
Amount of Request: \$498,076 (Total); \$115,000 (Shared Control)  
Effective and Expiration Dates: 10/01/2020 – 09/30/2024,  
Collaborators: Paul Goeringer (PI: UMD); **Tyler Mark** (Co-PI: UKY), Aaron Smith (Co-PI: UMN), and Jennifer Zwagerman (Co-PI: Drake U).  
Notes: Funding for research associate.

Title of Project: Cross-State Heterogeneity of Farm-Scale Hemp Production Cost Data Collection Project  
Source of Support: Agricultural Marketing Service  
Amount of Request: \$1,000,000 (Total); \$1,000,000 (Shared Control)  
Effective and Expiration Dates: 05/16/2020 – 10/15/2023,  
Collaborators: **Tyler Mark** (PI: UKY), Dawn Thilmany (Co-PI: CSU), Daniel Mooney (Co-PI: CSU), and Rebecca Hill (Co-PI: CSU).  
Notes: Leading the first national level production cost survey. Funding for Post Doctoral Scholar and Ph.D. Student.

Title of Project: Solutions to the *Armillaria* Root Rot Threat Affecting the U.S. Stone Fruit Industry  
Source of Support: NIFA SERP  
Amount of Request: \$4,200,000 (Total); \$191,652 (Shared Control)  
Effective and Expiration Dates: 09/1/2020 – 08/31/2024,  
Collaborators: Ksenija Gasic (PI: Clemson), Christopher Saski (Co-PI: Clemson), Kendra Baumgartner (PI: USDA-ARS), Guido Schnabel (PI: Clemson), Gregory Reighard (PI: Clemson), Michael Vassalos (PI: Clemson), Ray Hammerschmidt (Co-PI: MSU), Amy Iezzoni (Co-PI: MSU), Tom Gradziel (Co-PI: UC Davis), Juan Carlos Melgar (Co-PI: Clemson), Bulent Koc (Co-PI: Clemson), Nishanth Tharayil (Co-PI: Clemson), **Tyler Mark** (Co-PI: UKY), Dario Chavez (Co-PI: UGA), Jeffrey Adelberg (Co-PI: Clemson), Douglas Bielenberg (Co-PI: Clemson) and Phillip Brannen (Co-PI: UGA).  
Notes: Co-Leading the economic research component of this grant.

Title of Project: Economic Impacts of Hemp Based Industries on Rural Communities.  
Source of Support: NIFA Foundational  
Amount of Request: \$496,215 (Total); \$87,011 (Shared Control)  
Effective and Expiration Dates: 01/01/2020 – 12/31/2023,  
Collaborators: Jane Kolodinsky (PI: UVM), **Tyler Mark** (Co-PI: UKY), Rebecca Hill (Co-PI: CSU), Heather Darby (Co-PI: UVM), and Will Snell (Co-PI: UKY)  
Notes: Leading the economics portion of grant.

Title of Project: Hemp Marketing: Measuring State Demand and Preferences in an Emerging Market.

Source of Support: AMS-FMSIP

Amount of Request: \$249,865 (Total); \$2,011 (Shared Control)

Effective and Expiration Dates: 09/2020 – 08/2023,

Collaborators: Ben Campbell (PD: UGA), **Tyler Mark** (Co-PI: UKY), Brandon McFadden (Co-PI: UD), and Adam Rabinowitz (Co-PI: UA)

Notes:

Title of Project: NRT: IN FELLOWS & An Academy of Innovators at the Nexus of Food, Energy & Water Systems

Source of Support: National Science Foundation Research Traineeship (NRT) Program

Amount of Request: 3,000,000 (Total); 72,000 (Shared Control)

Effective and Expiration Dates: 06/1/2019 – 05/30/2024,

Collaborators: Mark Crocker (PI: UKY), Eduardo Santillan-Jimenez (Co-PI: UKY), Carmen Agouridis (Co-PI: UKY), **Tyler Mark** (Co-PI: UKY), Isabel Escobar (Co-PI: UKY), Christopher Barton (SP: UKY), Luke Moe (SP: UKY), James Landon (SP: UKY), Seth Debolt (SP: UKY), and Jacinda Dariotis (Evaluator: University of Cincinnati)

Notes: Leading the economic research component of this grant.

Title of Project: Evaluation of the Rotation of Tomato with Fresh-cut Flowers in a High Tunnel System for Improved Pest, Disease, and Soil Management.

Source of Support: Specialty Crop Block Grant

Amount of Request: \$56,834 (Total); \$56,834 (Shared Control)

Effective and Expiration Dates: 05/10/2021 – 04/09/2023,

Collaborators: Rachel Rudolph (PD: UKY), Jonathan Larson (Co-PD), Nicole Gauthier (Co-PD) and **Tyler Mark** (Co-PD: UKY)

Notes: Leading the economics portion of grant.

### **Grants in Review: \$3,580,483 (Total); \$1,219,503 (Control or Shared Control)**

Title of Project: Cooperative Unmanned Aircraft Systems for Workload Reductions on Cattle Operations.

Source of Support: NIFA Foundational

Amount of Request: \$649,999 (Total); \$80,011 (Shared Control)

Effective and Expiration Dates: 07/01/2023 – 06/30/2026,

Collaborators: Josh Jackson (PI: UKY), Mike Sama (Co-PI: UKY), Jesse Hoagg (Co-PI: UKY), and **Tyler Mark** (Co-PI: UKY)

Notes: Leading the economics portion of grant.

Title of Project: Improving Hemp Crop Insurance by Developing A THC Overage Option.

Source of Support: NIFA Foundational

Amount of Request: \$650,000 (Total); \$150,000 (Shared Control)

Effective and Expiration Dates: 07/01/2023 – 06/30/2026,

Collaborators: Alexis Aveiga (PI: ASU), Ashok Mishra (Co-PI: ASU) and **Tyler Mark** (Co-PI: UKY)

Notes: Providing hemp expertise, contacts and developing the whole farm simulation.

Title of Project: Investigating Market Opportunities for Novel Hemp Based Products.  
Source of Support: NIFA Foundational  
Amount of Request: \$800,000 (Total); \$195,000 (Shared Control)  
Effective and Expiration Dates: 07/01/2023 – 06/30/2027,  
Collaborators: Jane Kolodinsky (PD: UVM), **Tyler Mark** (Co-PI: UKY), Brandon McFadden (Co-PI: UA), Jeff Buzas (Co-PI: UVM), and Yuqing Zheng (Co-PI: UKY)  
Notes: Leading the hemp production economics portion of grant.

Title of Project: You Are What You Eat: Linking Multiple USDA CFDS Data to Predict Health Outcomes Using a Machine Learning Approach.  
Source of Support: NIFA-Robert Wood Johnson Foundation  
Amount of Request: \$200,000 (Total); \$100,000 (Shared Control)  
Effective and Expiration Dates: 07/01/2023 – 06/30/2027,  
Collaborators: Jane Kolodinsky (PD: UVM), **Tyler Mark** (Co-PI: UKY), Jeff Buzas (Co-PI: UVM), and Yuqing Zheng (Co-PI: UKY)  
Notes: Supporting consumer hemp modeling.

Title of Project: Extension-Focused AEC MS Program  
Source of Support: USDA-NIFA National Needs Fellowship  
Amount of Request: \$271,713 (Total); \$271,713 (Shared Control)  
Effective and Expiration Dates: 10/1/2022 – 9/30/2026,  
Collaborators: Yoko Kusunose (PD: UK), Kenneth Burdine (Co-PI: UK), Steven Isaacs (Co-PI: UK), Timothy Woods (Co-PI: UK), Alison Davis (Co-PI: UK), **Tyler Mark** (Co-PI: UK).  
Notes: Potential mentor

Title of Project: Using Big Data (Scanner Data) to Examine the Evolution of Retail Hemp Products in the Last Decade  
Source of Support: Herb Society of America  
Amount of Request: \$10,000 (Total); \$10,000 (Shared Control)  
Effective and Expiration Dates: 05/1/2022 – 4/31/2023,  
Collaborators: Yuqing Zheng (PD: UK), **Tyler Mark** (Co-PI: UK).  
Notes: Co-leading the economic research component of this grant.

Title of Project: Adding Value to Specialty Crop Producers through Better Access to Carbon Markets  
Source of Support: USDA-AMS: Specialty Crop Multistate Grant  
Amount of Request: \$998,771 (Total); \$412,779 (Shared Control)  
Effective and Expiration Dates: 05/1/2022 – 4/31/2023,  
Collaborators: Ryan Burnette (PD: KDA), **Tyler Mark** (Co-PI: UK), Margaret Scholes (Co-PI: IOIA), Francis Blake (Co-PI: AOI), Jordan Shockley (Co-PI), Mark Williams (Co-PI: UK), Shuoli Zhao (Co-PI: UK).  
Notes: Co-leading the economic research component of this grant.

### **Grants Completed \$42,788,600 (Total)**

Title of Project: Production and Market Development for Grass-fed Beef in the Gulf Coast Region of the U.S.  
Source of Support: USDA-AFRI



Amount of Request: \$49,893 (Total); \$49,893 (Shared Control)

Effective and Expiration Dates: 07/01/2017 – 12/31/2021

Collaborators: **Tyler Mark** (PI, UK) and Wuyang Hu (Co-I, OSU)

Notes: Leading the subcontract from LSU and working with Dr. Hu on survey instrument development. One graduate student funded (Jonathan Shepherd).

Title of Project: National Hemp Research & Education Conference.

Source of Support: USDA NIFA

Amount of Request: \$50,000 (Total); \$0 (Shared Control) Effective and Expiration Dates: 02/10/2020 – 02/09/2021,

Collaborators: Abdel Berrada (PD: CSU), John McKay (Co-PD: CSU), Larry Smart (Co-PD: Cornell), **Tyler Mark** (Co-PD: UKY), Dawn Thillmany (Co-PD: CSU), Jeanine Davis (Co-PD: NC State), John Fike (Co-PD: VTU), Jay Noller (Co-PD: OSU), Shelby Ellison (Co-PD: UW), Irwin Goldman (Co-PD: UW), Andrew George Ristvey (Co-PD: UM), Heather Darby (Co-PD: UVM), Eric Walker (Co-PD: UT)

Notes: Co-Leading Economics

Title of Project: Evaluating the Rotation of Tomato with Fresh-Cut Flowers in a High Tunnel System for Improved Pest, Disease, and Soil Management.

Source of Support: IMP Enhancement Grants

Amount of Request: \$30,000 (Total); \$4,755 (Shared Control)

Effective and Expiration Dates: 02/10/2020 – 02/09/2021,

Collaborators: Rachel Rudolph (PD: UKY), Jonathan Larson (Co-PD), Nicole Gauthier (Co-PD) and **Tyler Mark** (Co-PD: UKY)

Notes: Leading the economics portion of grant.

Title of Project: Training Kentucky Farmers How to Implement an Integrated Crop Insurance, Price and Farm Program Risk Management Plan

Source of Support: United States Department of Agriculture - Risk Management

Agency Amount of Request: \$99,990 (Total); \$99,990 (Shared Control)

Effective and Expiration Dates: 10/15/2018 – 3/31/2020

Collaborators: Todd Davis (PI; UK), **Tyler Mark** (Co-I, UK), and Jonathan Shepherd (Co-I, UK) Notes: Providing decision tool development support and presenting at trainings. Providing partial funding for one graduate student (Jonathan Shepherd).

Title of Project: Economics of K use in Rice

Source of Support: Fertilizer Tonnage Fees and Soil Test Review

Board Amount of Request: \$19,000 (Total); \$19,000 (Shared

Control) Effective and Expiration Dates: 3/01/2018 – 2/28/2020

Collaborators: Kelly Bryant (PI; UA-Monticello), Jessica Richard (Co-PI; OKState), Nathan Slaton (Co-I; UA-Monticello), and **Tyler Mark** (Co-I, UK)

Notes: Providing modeling and decision tool support.

Title of Project: An Overview of the United States Industrial Hemp Pilot Program

Source of Support: USDA-ERS Cooperative Agreement

Amount of Request: \$55,333 (Total); \$55,333 (Shared Control)

Effective and Expiration Dates: 05/31/2019 – 5/30/2020,  
Collaborators: **Tyler Mark** (PI: UKY), William Snell (Co-PI: UKY), and Jonathan Shepherd (Co-PI: UKY)  
Notes: Leading a nationwide review of the Hemp Pilot Programs authorized by the 2014 Farm Bill.

Title of Project: Development of CAN-Based Data Management and Decision Support System for Optimal Equipment and Harvest Timing from Grain Harvest to Storage  
Source of Support: USDA, NIFA – Food Security Program  
Amount of Request: \$500,000 (Total); \$106,374 (Direct Control)  
Effective and Expiration Dates: 10/2015 – 09/2019  
Collaborators: Michael Sama (PI), Michael Montross (Co-PI), Joseph Dvorak (Co-PI), Sam McNeill (Co-PI), **Tyler Mark** (Co-PI)  
Notes: I am leading the development of the economic components. One graduate student funded that graduated in May 2018 (Ben Martin).

Title of Project: Powering the Kentucky Bioeconomy for a Sustainable Future  
Source of Support: National Science Foundation (NSF) - EPSCoR  
Amount of Request: \$24,000,000 (total), \$298,600 (Direct Control)  
Effective and Expiration Dates: 08/01/2014 – 06/30/2019  
Collaborators: Rodney Andrews (PI), YT Cheng (Co-PI), Seth Debolt (Co-PI), and Bruce Hinds (Co-PI) are the primary group leaders.  
Notes: I am a Co-PI on the grant in charge of the economic components of the grant and work directly with Seth Debolt. I am also directing a Ph.D. student (GwanSeon Kim)

Title of Project: Re-evaluation of the “Pallet” Housing Concept for Burley Tobacco  
Source of Support: JTI  
Amount of Request: \$30,000 (Total); \$30,000 (Shared Control)  
Effective and Expiration Dates: 01/01/2017 – 5/31/2019  
Collaborators: Robert Pearce (PI; UK), Larry Swetnam (Co-PI; UK), Will Snell (Co-PI; UK), and **Tyler Mark** (Co-I, UK)  
Notes: Coordinating the economic components of the project with Dr. Snell.

Title of Project: Viability Assessment of Unmanned Aerial System (UAS) Services in Context of Smallholder Irrigated Rice Farming in Benin  
Source of Support: Technical Centre for Agricultural and Rural Cooperation  
Amount of Request: €20,000 (Total); €20,000 (Shared Control)  
Effective and Expiration Dates: 04/01/2018 – 3/31/2019  
Collaborators: Abdelaziz Lawani (PI, Global Partners) and **Tyler Mark** (Collaborator, UK)  
Notes: Consultant on the project.

Title of Project: Economics of K use in Soybeans  
Source of Support: Fertilizer Tonnage Fees and Soil Test Review Board  
Amount of Request: \$19,000 (Total); \$19,000 (Shared Control)  
Effective and Expiration Dates: 3/01/2017 – 2/28/2019  
Collaborators: Kelly Bryant (PI; UA-Monticello), Jessica Richard (Co-PI; UK), Nathan Slaton (Co-I; UA-Monticello), and **Tyler Mark** (Co-I, UK)

Notes: Providing modeling and decision tool support.

Title of Project: Herd Navigator & DeLaval BCS Testing

Source of Support: DeLaval

Amount of Request: \$111,252 (total), \$111,252 (Shared Control)

Effective and Expiration Dates: 01/01/2016 – 05/31/2018

Collaborators: Jeffrey Bewley (PI) and **Tyler Mark** (Co-I)

Notes: Provides funding for a student in Animal Science. I am working with them on the economic portion of the project.

Title of Project: Drones for precision agriculture: comparative evaluation of pesticide spraying drones and manual sprays

Source of Support: UK Student Sustainability Council

Amount of Request: \$6,000 (total), \$6,000 (Direct Control)

Effective and Expiration Dates: 01/15/2017 – 06/30/2017

Collaborators: Abdelaziz Lawani (PI), Ahmed Hussein (Co-PI), **Tyler Mark** (Advisor), and Leigh Maynard (Advisor).

Notes: Graduate student-led grant.

Title of Project: Drones for Developing Countries

Source of Support: UK Research Activity Award

Amount of Request: \$3,000 (total), \$3,000 (Direct Control)

Effective and Expiration Dates: 09/30/2016 – 06/30/2017

Collaborators: Abdelaziz Lawani (PI), Leigh Maynard (Co-I), and **Tyler Mark** (Co-I)

Notes: Provides funding for a pilot study to evaluate drone usage in developing countries for pesticide application. Abdel is the primary architect of this grant and is a Ph.D. student in the department.

Title of Project: A Regional Program for Production of Multiple Agricultural Feedstocks and Processing to Biofuels and Biobased Chemicals

Source of Support: USDA, AFRI – Sustainable Bioenergy Program

Amount of Request: \$17,200,000 (Total), \$75,000 (Direct Control)

Effective and Expiration Dates: 04/01/2011 – 07/30/2017

Collaborators: There are over 40 different collaborators, and a full list can be provided upon request.

Notes: Co-PI and 1 of 3 economists on the grant.

Website:

[http://www.lsuagcenter.com/en/crops\\_livestock/crops/Bioenergy/biofuels\\_bioprocessing/subi/](http://www.lsuagcenter.com/en/crops_livestock/crops/Bioenergy/biofuels_bioprocessing/subi/)

Title of Project: A Study of the New Zealand Dairy Industry

Source of Support: Dairy New Zealand

Amount of Request: \$14,000 (Total); \$14,000 (Shared Control)

Effective and Expiration Dates: 06/01/2015 – 12/31/2015

Collaborators: Jeffery Bewley (Co-PI) and **Tyler Mark** (Co-PI)

Notes: I am providing support for the economic component and co-direct the undergraduate student. (Emory Thomas)

Title of Project: A Study of Herd Navigator Introduction into the US Market Source of Support: DeLaval (<http://www.delaval.com/>)  
Amount of Request: \$12,130 (Total); \$12,130 (Shared Control)  
Effective and Expiration Dates: 10/01/2015 – 12/31/2015  
Collaborators: Jeffery Bewley (PI) and **Tyler Mark** (Co-PI)  
Notes: I am providing support for the economic component and co-directing a graduate student with the funding (Jessica Richard).

Title of Project: Assessing the Risk Reduction Impacts of the Dairy Producer Margin Protection Program: A simulation analysis  
Source of Support: USDA-ERS Cooperative Agreement  
Amount of Request: \$25,000 (Total)  
Effective and Expiration Dates: 07/01/2014 – 06/30/2015  
Collaborators: **Tyler Mark** (Co-PI) and Kenny Burdine (Co-PI)  
Notes: This is a collaborative agreement with ERS and has two ERS co-authors.

Title of Project: Low-Cost Biomass Saccharification Process for Producing Biofuels  
Source of Support: Kentucky Energy and Environment Cabinet Department of Energy Development and Independence  
Amount of Request: \$179,002 (Total); \$21,673 (Direct Control)  
Effective and Expiration Dates: 04/01/2013 – 05/31/2014  
Collaborators: Bruce Pratt (PI), Eastern Kentucky University; Czar Crofcheck (Co-PI), University of Kentucky; **Tyler Mark** (Co-PI), University of Kentucky  
Notes: Conduct and provide the economic analysis for the project. This project started while I was at Morehead State University, but was completed at the University of Kentucky.

Title of Project: Energy Development in Eastern Kentucky: Capacity and Opportunity Source of Support: Morehead State University (Booth Foundation)  
Amount of Request: \$100,000 (Total); \$50,000 (Direct Control)  
Effective and Expiration Dates: 07/01/2013 – 06/30/2016  
Collaborators: Jen O'Keefe, Morehead State University; Tim Hare, Morehead State University, Greg Copley, UK Center for Applied Energy Research; Rodney Andrews, UK Center for Applied Energy Research  
**Notes:** Project was suspended upon my departure from Morehead State University.

Title of Project: New Faculty Start-Up  
Source of Support: Center for Regional Engagement, Morehead State University  
Amount of Request: \$15,000  
Effective and Expiration Dates: 4/15/2011 – 4/14/2014  
Collaborators: **Tyler Mark** (PI)

Title of Project: East Kentucky Bioenergy Assessment Project  
Source of Support: Department of Energy  
Amount of Request: \$250,000  
Effective and Expiration Dates: 1/1/2010 – 2/28/2013  
Collaborators: Michael J. Phillips (Co-PI), Mississippi State University and Michael

Montross (Co-PI), University of Kentucky (These are the originators of the grant; however, Michael J. Phillips vacated his position at MSU before completion of the grant. I assumed his duties and completing the grant.)

### Travel Grants Funded

Total: \$1,915

### Morehead State University Needs Grants Funded

Total: \$3,500

## TEACHING EXPERIENCE

### Courses Taught at the University of Kentucky

| Dept. No.          | Course Title   | Credit Hours | Enrollment / Responded | Before Fall 2016 (4-point scale);<br>After Fall 2016 (5-point scale) |                     |
|--------------------|--|--------------|------------------------|--|---------------------|
|                    |  |              |                        | Value of Course  | Quality of Teaching |
| <b>Fall 2022</b>   |  |              |                        |  |                     |
| CHE 580-003        | Innovations at the Nexus of Food-Energy-Water systems (INFEWS) | 3            | 16/                    |  |                     |
| AEC 500_002        | MS Graduate Seminar 1  | 3            | 7/                     |  |                     |
| AEC 500_003        | Quantitative Tools   | 3            | 11/                    |  |                     |
| <b>Fall 2021</b>   |  |              |                        |  |                     |
| CHE 580-003        | Innovations at the Nexus of Food-Energy-Water systems (INFEWS) | 3            | 20/14                  | 4.0  | 4.1                 |
| AEC 500_002        | MS Graduate Seminar 1  | 1            | 6/                     | N/A  | N/A                 |
| AEC 500_003        | Ph.D. Graduate Seminar 1                                       | 1            | 6/6                    | 4.3  | 4.5                 |
| <b>Fall 2020</b>   |  |              |                        |  |                     |
| CHE 580-003        | Innovations at the Nexus of Food-Energy-Water systems (INFEWS) | 3            | 16/9                   | 3.78   | 4.0                 |
| <b>Spring 2020</b> |  |              |                        |  |                     |
| AEC 361-001        | International Agribusiness Argentina                           | 3            | 8/0                    | N/A  | N/A                 |
| <b>Fall 2019</b>   |  |              |                        |  |                     |
| AEC 620-001        | Advanced Production Economics                                  | 3            | 4/2                    | N/A  | N/A                 |
| <b>Spring 2019</b> |  |              |                        |  |                     |
| AEC 361-001        | International Agribusiness Argentina                           | 3            | 16/5                   | 5.0  | 4.2                 |
| <b>Fall 2018</b>   |  |              |                        |  |                     |
| AEC 302-001        | Agricultural Management  | 4            | 22/5                   | 3.8  | 4.0                 |
| AEC 302-002        | Agricultural Management  | 4            | 21/5                   | 2.6  | 2.6                 |
| AEC 620-001        | Advanced Production Economics                                  | 3            | 5/0                    | N/A  | N/A                 |
| <b>Spring 2018</b> |  |              |                        |  |                     |
| AEC 300-002        | International Agribusiness Argentina                           | 3            | 16/6                   | 4.80   | 4.5                 |
| <b>Fall 2017</b>   |  |              |                        |  |                     |
| AEC 302-001        | Agricultural Management  | 4            | 24/12                  | 4.3  | 4.3                 |
| AEC 302-002        | Agricultural Management  | 4            | 22/8                   | 3.8  | 4.1                 |
| AEC 620-001        | Advanced Production Economics                                  | 3            | 8/6                    | 4.7  | 4.5                 |
| <b>Spring 2017</b> |  |              |                        |  |                     |
| AEC 300-002        | International Agribusiness Argentina                           | 3            | 16                     | 4.80   | 5.00                |
| <b>Fall 2016</b>   |  |              |                        |  |                     |
| AEC 302-001        | Agricultural Management  | 4            | 30/11                  | 3.73   | 4.18                |
| AEC 302-002        | Agricultural Management  | 4            | 29/9                   | 3.33   | 3.56                |
| AEC 620-001        | Advanced Production Economics                                  | 3            | 12/9                   | 4.67   | 4.44                |
| <b>Spring 2016</b> |  |              |                        |  |                     |
| AEC 300-005        | International Agribusiness Argentina                           | 3            | 17/6                   | 3.67   | 4.00                |
| <b>Fall 2015</b>   |  |              |                        |  |                     |

|                    |                                   |   |       |      |      |
|--------------------|-----------------------------------|---|-------|------|------|
| AEC 302-001        | Agricultural Management           | 4 | 27/9  | 3.11 | 3.11 |
| AEC 302-002        | Agricultural Management           | 4 | 29/14 | 2.43 | 2.36 |
| <b>Spring 2015</b> |                                   |   |       |      |      |
| AEC 441G           | Agricultural Financial Management | 3 | 15/12 | 3.42 | 3.50 |
| <b>Fall 2014</b>   |                                   |   |       |      |      |
| AEC 620            | Advanced Production Economics     | 3 | 3/1   | 4.0  | 4.0  |

### Courses Taught at Morehead State University

At Morehead State University teaching evaluations are conducted on two classes per semester. The evaluations were conducted using the Individual Development and Educational Assessment (IDEA) system. More information on this system can be found at ([www.ideaedu.org](http://www.ideaedu.org)).

| Dept. No.             | Course Title                       | Credit Hours | Enrollment | Teaching Load | IDEA Scores (5-point scale) |                  |                  |                 |
|-----------------------|------------------------------------|--------------|------------|---------------|-----------------------------|------------------|------------------|-----------------|
|                       |                                    |              |            |               | PRO <sup>1</sup>            | OET <sup>2</sup> | OEC <sup>3</sup> | SE <sup>4</sup> |
| <b>Fall 2013</b>      |                                    |              |            |               |                             |                  |                  |                 |
| AGR 204-001           | World Food                         | 3            | 58         | 3             |                             |                  |                  |                 |
| AGR 301-001           | Farm Management                    | 3            | 54         | 3             | 3.6                         | 3.4              | 3.2              | 3.5             |
| AGR 303-001           | Land Economics                     | 3            | 34         | 3             | 4.0                         | 3.9              | 3.9              | 4.0             |
| AGR 305-001           | Marketing of Farm Products         | 3            | 15         | 3             |                             |                  |                  |                 |
| <b>Spring 2013</b>    |                                    |              |            |               | <b>12.85</b>                |                  |                  |                 |
| AGR 185-200**         | Current Food and Energy Issues     | 3            | 24         | 3             |                             |                  |                  |                 |
| AGR 204-001           | World Food                         | 3            | 50         | 3             | 3.9                         | 4.2              | 3.7              | 4.0             |
| AGR 302-001           | Agricultural Finance               | 3            | 30         | 3             | 4.5                         | 4.4              | 4.4              | 4.5             |
| AGR 405-001           | Farm Business Analysis             | 3            | 11         | 2.4           |                             |                  |                  |                 |
| AGR 405L-001          | Farm Business Analysis Lab         | 0            | 11         | 1.45          |                             |                  |                  |                 |
| AGR 499C              | Senior Seminar                     | 3            | 2          | 0             |                             |                  |                  |                 |
| AGR 605-001           | Farm Business Analysis             | 3            | 3          | 0             |                             |                  |                  |                 |
| AGR 605L-001          | Farm Business Analysis Lab         | 0            | 3          | 0             |                             |                  |                  |                 |
| <b>Fall 2012</b>      |                                    |              |            |               | <b>12</b>                   |                  |                  |                 |
| AGR 204-001           | World Food                         | 3            | 41         | 3             | 3.6                         | 3.4              | 3.2              | 3.5             |
| AGR 301-001           | Farm Management                    | 3            | 52         | 3             | 4.3                         | 4.4              | 4.4              | 4.4             |
| AGR 305-001           | Marketing of Farm Product          | 3            | 16         | 3             |                             |                  |                  |                 |
| AGR 386-001           | Agricultural Policy                | 3            | 23         | 3             |                             |                  |                  |                 |
| <b>Summer I 2012</b>  |                                    |              |            |               |                             |                  |                  |                 |
| AGR 185-301*          | Current Food and Energy Issues     | 3            | 7          | 3             |                             |                  |                  |                 |
| AGR 204-301*          | World Food                         | 3            | 15         | 3             |                             |                  |                  |                 |
| <b>Spring 2012</b>    |                                    |              |            |               | <b>12.85</b>                |                  |                  |                 |
| AGR 185-200**         | Current Food and Energy Issues     | 3            | 23         | 3             |                             |                  |                  |                 |
| AGR 204-001           | World Food                         | 3            | 47         | 3             | 4.1                         | 4.6              | 4.4              | 4.3             |
| AGR 385-001           | Agribusiness Management            | 3            | 22         | 3             | 4.2                         | 4.3              | 4.2              | 4.3             |
| AGR 405-001           | Farm Business Analysis             | 3            | 8          | 2.4           |                             |                  |                  |                 |
| AGR 405L-001          | Farm Business Analysis Lab         | 0            | 8          | 1.45          |                             |                  |                  |                 |
| <b>Fall 2011</b>      |                                    |              |            |               | <b>12</b>                   |                  |                  |                 |
| AGR 185-001           | Current Food and Energy Issues     | 3            | 24         | 3             | 4.0                         | 4.3              | 4.2              | 4.2             |
| AGR 204-001           | World Food                         | 3            | 42         | 3             |                             |                  |                  |                 |
| AGR 301-001           | Farm Management                    | 3            | 42         | 3             | 3.7                         | 4.0              | 3.6              | 3.8             |
| AGR 302-001           | Agricultural Finance               | 3            | 25         | 3             |                             |                  |                  |                 |
| <b>Summer II 2011</b> |                                    |              |            |               | <b>3</b>                    |                  |                  |                 |
| AGR 204-301*          | World Food                         | 3            | 16         | 3             |                             |                  |                  |                 |
| <b>Summer I 2011</b>  |                                    |              |            |               | <b>3</b>                    |                  |                  |                 |
| AGR 204-301*          | World Food                         | 3            | 6          | 3             |                             |                  |                  |                 |
| <b>Spring 2011</b>    |                                    |              |            |               | <b>9</b>                    |                  |                  |                 |
| AGR 299-200**         | Current Food and Energy Issues     | 3            | 10         | 3             | 4.7                         | 3.9              | 3.8              | 4.3             |
| AGR 299-204**         | Current Food and Energy Issues     | 0            | 1          | 0             |                             |                  |                  |                 |
| AGR 299-207**         | Current Food and Energy Issues     | 0            | 5          | 0             |                             |                  |                  |                 |
| AGR 303-001           | Land Economics                     | 3            | 21         | 3             |                             |                  |                  |                 |
| AGR 305-001           | Marketing of Farm Products         | 3            | 27         | 3             | 3.6                         | 4.2              | 3.7              | 3.8             |
| <b>Fall 2010</b>      |                                    |              |            |               | <b>13.70</b>                |                  |                  |                 |
| AGR 204-001           | World Food                         | 3            | 32         | 3             | 3.8                         | 4.3              | 3.6              | 3.9             |
| AGR 204-002           | World Food                         | 3            | 37         | 3             |                             |                  |                  |                 |
| AGR 261-001           | Information Acquisition & Analysis | 3            | 24         | 2.4           |                             |                  |                  |                 |
| AGR 261L-001          | Information Acquisition & Analysis | 0            | 22         | 1.45          |                             |                  |                  |                 |

|              |                                    |   |    |      |     |     |     |     |
|--------------|------------------------------------|---|----|------|-----|-----|-----|-----|
| AGR 261-002  | Information Acquisition & Analysis | 3 | 20 | 2.4  | 4.6 | 4.5 | 4.6 | 4.6 |
| AGR 261L-002 | Information Acquisition & Analysis | 0 | 22 | 1.45 |     |     |     |     |

<sup>1</sup>Progress on relevant objectives, <sup>2</sup>Overall excellence of teacher, <sup>3</sup>Overall excellence, of course, <sup>4</sup>Summary evaluation. \* Delivered via online; \*\* Delivered via iTV,

## Courses Developed

### **The Economics of Hemp and Its Supply Chains, AEC 535**

Department of Agricultural Economics, *University of Kentucky*

(Approved Spring 2022)

### **International Agribusiness Argentina, AEC 361 (Co-Developer with Todd Davis)**

Department of Agricultural Economics, *University of Kentucky*

(Approved Fall 2015)

### **Current Food and Energy Issues, AGR 185**

Department of Agricultural Sciences, *Morehead State University*

(Approved Fall 2010)

## Other Instructional Activities

**Guest Lecture, *Topics in Biosystems Engineering*, Title: “Advanced Ag Econ Data Analysis.”** BAE 599, University of Kentucky, Lexington, KY. September 21, 2021.

**Guest Lecture, *Special Topics*, Title: “Advanced Ag Econ Data Analysis.”** ASM 591, Purdue University, West Lafayette, IN. September 14, 2021.

**Guest Lecture, *Issues in Agriculture, Food, and Environment*, Title: “Hemp Agronomy and Economics.”** GEN 100, University of Kentucky, Lexington, KY. December 3, 2019.

**Guest Lecture, *The Economics of Food and Agriculture*, Title: “Hemp Economics in Kentucky and Argentina.”** AEC 101. Department of Agricultural Economics, University of Kentucky, Lexington, KY. October 29, 2019.

**Guest Lecture, *Issues in Agriculture, Food, and Environment*, Title: “Energy and Environment.”** GEN 100, University of Kentucky, Lexington, KY. October 1, 2018.

**Guest Lecture, *The Economics of Food and Agriculture*, Title: “Production Economics.”** AEC 101. Department of Agricultural Economics, University of Kentucky, Lexington, KY. October 16, 2018.

**Guest Lecture, *The Economics of Food and Agriculture*, Title: “Production Economics.”** AEC 101. Department of Agricultural Economics, University of Kentucky, Lexington, KY. October 10, 2017.

**Guest Lecture, *Farm Management*, Title: “Farm Managers, Records, and ASFMRA.”** Department of Agricultural Sciences, Western Kentucky University, Bowling Green, KY. April 12, 2017.

**Guest Lecture, *Farm Management*, Title: “Farm Managers, Records, and ASFMRA.”** Department of Agricultural Sciences, Western Kentucky University, Bowling Green, KY. April 20, 2016.

**Guest Lecture, *Farm Management*, Title: “Farm Managers, Records, and ASFMRA.”** Department of Agricultural Sciences, Western Kentucky University, Bowling Green, KY. April 10, 2015.

**Guest Lecture, *Orientation to Agriculture*, AGR 101, Department of Agricultural Sciences, Morehead State University (Fall 2010, Spring 2012, Fall 2013)**

## POST-DOCTORAL SCHOLARS

(Doctoral Granting Institution) and [Employment]

Buddhika Patalee Mallika Appuhamilage (Kansas State University), November 2020-Present.

Nicholas Pates (Kansas State University), January 2019-June 2020. [University of Kentucky, Assistant Professor]

## STUDENT ACTIVITIES

(Students Department) and [Employment upon Graduation]

### Ph.D. Dissertation

#### Chair or Co-Chair

Hoyeon Jeong (Agricultural Economics), August 2020-Present.

Robert Ellis (Agricultural Economics), August 2019-Present.

Saber Feizy (Agricultural Economics), August 2020-Present.

Jonathan Shepherd (Agricultural Economics), September 2018-Present.

Derek Nolan (Animal and Food Science), February 2018-May 2020.

[University of Illinois, Assistant Teach Professor]

GwanSeon Kim (Agricultural Economics), January 2015-August 2019. *Utilizing Large Scale Datasets to Evaluate Aspects of a Sustainable Bio-economy*. [Arkansas State University, Assistant Professor]

#### Committee Member

Chukwudalu Great Umenweke (Chemistry), September 2021-Present.

Suliman Abdulaziz Almojel (Agricultural Economics), September 2020-December 2020, *Three Essays on Food Environment, Nutrition, and Food Insecurity*. [King Saud University]

Domena Agyeman (Agricultural Economics), September 2020-June 2021, *The Past, Present, and Future of Kentucky's Forest Sector: Structural Changes and Economic Impacts*. [Virginia Seafood AREC].

Lingxiao Wang (Agricultural Economics), November 2020-May 2021, *Three Essays on the Grocery Sales Taxes*. [Post Doctoral Scholar University of Wisconsin]

Wei Zhang (Agricultural Economics), June 2020-May 2021, *Three Essays on Price Analysis and International Trade*.

Yosef Alamri (Agricultural Economics), January 2019-August 2019, *Three Essays on Saudi Arabia's Agricultural Markets*. [King Saud University]

Scott Hall (Agricultural Economics), August 2017-May 2019, *Economic Impact of Ethanol Biorefineries in the U.S. Midwest from 2001 to 2015: A Quasi-Experimental Approach*.

Mahdi Asgari (Agricultural Economics), January 2018-June 2018, *The Impact of Biofuel Policies on Overshooting of Agricultural Prices*. [Post Doctoral Scholar University of California Riverside]

Aaron Turner (Biosystems and Agricultural Engineering), January 2017-December 2018, *Development of a Decision Support System for Capacity Planning from Grain Harvest to Storage*, [Clemson University, Assistant Professor]

Karmella Dolecheck (Animal Science), June 2015-May 2018, *Dairy Cattle Hoof Disease Costs and Considerations for Prevention*, [Zoetis]

Bo Chen (Agricultural Economics), February 2016-May 2017, *Essays on Organic Food Marketing in the U.S.*, [Huazhong Agricultural University]

Elizabeth Eckelkamp (Animal Science), August 2015-December 2017, *On-Farm Utilization of Precision Dairy Monitoring, Usefulness, Accuracy, and Affordability*, [University



of Tennessee, Assistant Professor]  
Mitchell Richmond (Plant and Soil Science), June 2015-May 2018, *Chemical Topping  
Burley Tobacco*, [Canadian Tobacco Research Foundation]

#### Outside Member

Daniel Chavez (Marketing and Supply Chain), March 2022, *When Should Sales Managers  
Get Involved in Their Salespeople's Transactions*  
Kiho Jun (Management), July 2018, *Boundary Spanning and Leadership Perceptions in  
Creative Organizations Evidence from Four Orchestras*.

#### **Masters Thesis**

##### Chair or Co-Chair

Mason Hamilton (Agricultural Economics), July 2022-Present  
Solomon Odiase (Agricultural Economics), July 2021-Present.  
Abraham Ajibade (Agricultural Economics), January 2021-Present.  
Alex Swartz (Agricultural Economics), January 2018-August 2019.  
*Special Problems in Agricultural Economics*. [LG&E, Data  
Analyst]  
Amanda Conley (Agricultural Economics), August 2015-Present.  
[Suspended Program]  
Ahmed Hussein (Agricultural Economics), November 2016-Present,  
Jerzy Jaromczyk (Agricultural Economics), January 2017-August 2020, *Optimal  
Supplemental Coverage Option Crop Insurance Decision for Kentucky Commodity  
Crop Producers*. [Ph.D. Program Cornell University]  
Ben Martin (Agricultural Economics), January 2016-May 2018, *Two Essays on Whole Farm  
Modeling and Crop Marketing in Western Kentucky*, [Fall Line Capital]  
Thomas Sewell (Agricultural Economics), January 2016-May 2017 [Suspended Program]  
Madeline Dant (Agricultural Economics), January 2016-May 2017, *An Analysis of Factors  
Impacting Hay Auction Prices and the Potential for NAP to Reduce Alfalfa Risk*,  
[Diversified Services]  
Jessica Richard (Agricultural Economics), August 2015-December 2017, *The Margin  
Protection Plan for Dairy: a Forecast and Ad Hoc Regional Analysis*, [Oklahoma  
State University Ph.D.]  
Owen Townsend (Agricultural Economics), January 2016-May 2017, *The History of the  
Federal Milk Marketing System and an Analytical View of Unique Qualities Effects  
on Milk Prices in the Southeast*. [Berry Global]  
Markus Lang (Agricultural Economics), August 2014-December 2016, *Plan B Non-Thesis  
Option*.

##### Committee Member

Leo Kyaw Zin (Agricultural Economics), September 2020-August 2022.  
Laxmi Adhikari (Agricultural Economics), August 2021-May 2022.  
[Ph.D. Purdue University]  
Amanda Falkner (Community Development & Applied Economics, University of Vermont),  
January 2021-May 2022. [Daily Satellite Imagery and Analytics at Planet]

Luke Cummings (Agricultural Economics), September 2020-May 2021. *Farm Level Impact Of Adopting Multiple Component Pricing In The Appalachian FMMO And Evaluating The Usmta Canadian Cream Trq: A Gsim Approach* [Lixia Capsia Gestionis]

Shelby Wade (Agricultural Economics), August 2017-May 2019, *Two Essays in Fertilizer Management for Improved Profitability*. [Governors Office of Agricultural Policy, Compliance Manager]

Robert Ellis (Agricultural Economics), August 2017-December 2019 [Ph.D. University of Kentucky]

Sattam Almodarra (Agricultural Economics), February 2017-May 2017, *Investment for Trade? Impact of Investment from Gulf Cooperation Council Countries on Trade*. [King Abdulaziz University, Assistant Professor]

Jiaji Liang (Agricultural Economics), November 2015-December 2015, *Wine Company Analysis in "The New World" and "The Old World."*

Austin Jacobs (Agricultural Science), August 2011-May 2013, *Eastern Kentucky Farmers Willingness to Produce Biomass Energy*, [Mississippi State University, Ph.D.]

### **Undergraduate Internships or Research Directed or Co-Directed at UK**

Christopher Ortiz, September 2021-August 2022

Abbey Dickerson, August 2020-May 2021

Isaac D'Souza, December 2020-May 2021

Josey Moore, Summer 2018, [Consolidated Grain and Barge]

Eric Schwenke, Fall 2017, [Pre and Post-Harvest Marketing Strategies Research]

Cori Green, Fall 2017, [Paul Moore Appraisal]

Joseph Gifford, Spring 2017, [Forrester Financial]

Cori Green, Summer 2016, [Whitetail Sales & Service]

Jacob Mattingly, Summer 2016, [AgriGold]

Lauren Nickell, Summer 2015 & Summer 2016, [Archer Daniels Midland]

Greg Miracle, Summer 2015, [Paul Moore Appraisal]

Emory Thomas, Summer 2015, [DairyNZ]

Todd Hodges, Summer and Fall 2015, [Grain Storage Research]

### **Undergraduate Research Fellows Directed at Morehead State University**

Tanner Utterback, June 2013-December 2013

Shawn Tyler Moore, September 2012-May 2013

Clayton Wilson, September 2012-May 2013

Isaac Singer, February 2011-May 2012

Amir Ahmadi, August 2011- May 2012

Kelsey Culp, September 2011- December 2011

Carter Mobley, September 2011- May 2012

Blake Sims, September 2011-December 2011

Andrew Sorrell, September 2011- December 2011

Kyle Bush, September 2011- December 2011

Kayla Kelly, September 2011- May 2012

Keith Centers, September 2011- December 2011

### **Student Organizations**

**Advisor**, Graduate Student Support Team, Fall 2022-Present  
**Advisor**, FarmHouse Fraternity, Fall 2014-Spring 2018  
**Advisor**, Morehead Christian Student Fellowship, Fall 2012-Spring 2013  
**Advisor**, MSU Energy Club, Fall 2011-May 2012  
**Co-Advisor**, Agricultural Ambassadors, Spring 2011-December 2013

### **Undergraduate Advising**

|              |    |
|--------------|----|
| Fall 2021    | 0  |
| Spring 2021  | 3  |
| Fall 2020    | 3  |
| Spring 2019  | 10 |
| Fall 2018:   | 6  |
| Spring 2018: | 13 |
| Fall 2017:   | 12 |
| Spring 2017: | 18 |
| Fall 2016:   | 16 |
| Spring 2016: | 12 |
| Fall 2015:   | 14 |
| Spring 2015: | 11 |
| Fall 2014:   | 1  |
| Spring 2014: | 0  |
| Fall 2013:   | 60 |
| Spring 2013: | 59 |
| Fall 2012:   | 72 |
| Spring 2012: | 65 |
| Fall 2011:   | 53 |
| Spring 2011: | 30 |
| Fall 2010:   | 0  |

### **Educational Trips**

**Organizer**, Summer Education Week with ASFMRA 2016, Des Moines, IA, June 22 – July 2, 2016. 2 students (1 from UK, and 1 from WKU [1 was a faculty member]). Secured \$1,100 sponsorship for a trip from Kentucky Farm Managers and Rural Appraisers.

**Organizer**, Summer Education Week with ASFMRA 2015, Omaha, NE, July 18-21, 2015. 4 students (1 from UK, 2 from WKU [1 was a faculty member], and 1 from Morehead State University). Secured \$1,100 sponsorship for a trip from Kentucky Farm Managers and Rural Appraisers.

**Co-Organizer**, UK Graduate Student Tour of Western Kentucky, June 11-12, 2015.

**Organizer**, Summer Education Week with ASFMRA 2014, Des Moines, IA, July 12-15, 2014. 6 students (4 from UK and 2 from WKU [1 was a faculty member]). Secured \$900 sponsorship for a trip from Kentucky Farm Managers and Rural Appraisers.

**Co-Organizer**, UK Graduate Student Tour of Eastern Kentucky, June 12-13, 2014.

**Organizer**, Summer Education Week with ASFMRA 2013, Omaha, NE, July 13-16, 2013. 4 students (2 from UK and 2 from MSU). Secured \$1000 sponsorship for a trip from Kentucky Farm Managers and Rural Appraisers.

**Organizer**, Summer Education Week with ASFMRA 2012, Des Moines, IA, July 15-18,

2012. 3 students (1 from MSU and 2 from UK). Secured \$1000 sponsorship for a trip from Kentucky Farm Managers and Rural Appraisers.

**Organizer**, Summer Education Week with ASFMRA 2011, Omaha, NE, July 9-12, 2011. 6 students (2 from UK and 4 from MSU). Secured \$1000 sponsorship for a trip from Kentucky Farm Managers and Rural Appraisers.

## UNIVERSITY ACTIVITIES

### University of Kentucky

| Role                           | Committee                                 | Dates                       |
|--------------------------------|---|-----------------------------|
| <i>Departmental Committees</i> |   |                             |
| Chair                          | Administrative Assistant Search Committee | August 2022-December 2022   |
| Chair                          | Administrative Assistant Search Committee | December 2020-June 2021     |
| Chair                          | Nick Pates Mentoring Committee            | September 2020-Present      |
| Member                         | Opportunity Fund Application Review       | November 2018-December 2019 |
| Chair                          | Production/Resource Search Committee      | October 2018-November 2019  |
| Member                         | Undergraduate                             | Spring 2014-August 2017     |
| Member                         | Graduate and Grad Admissions              | August 2017-Present         |

### Morehead State University

| Role                           | Committee   | Dates                    |
|--------------------------------|---|--------------------------|
| <i>Departmental Committees</i> |   |                          |
| Member                         | Farm  | Fall 2010-Fall 2013      |
| Member                         | Scholarship   | Fall 2010-Fall 2013      |
| Member                         | Curriculum  | Fall 2010-Summer 2011    |
| Chair                          | Curriculum  | Spring 2011-Fall 2013    |
| Member                         | Social  | Spring 2011-Fall 2012    |
| Co-Chair                       | Unit Development Officer  | Spring 2011-Fall 2011    |
| Member                         | Faculty Evaluation Plan   | Spring 2012-Fall 2012    |
| Member                         | Animal Science Instructor Search Committee                          | Spring 2011              |
| Member                         | Horticulture Supervisor Search Committee                            | Summer 2012              |
| Member                         | Department of Agricultural Science Department Head Search Committee | Spring 2011- Spring 2013 |
| <i>College Committees</i>      |   |                          |
| Member                         | Honors  | Fall 2010-Spring 2012    |
| Member                         | Graduate Curriculum   | Spring 2012-Fall 2013    |
| <i>University Committees</i>   |   |                          |

|        |   |                       |
|--------|---|-----------------------|
| Member | Student Success Faculty & Professional Staff Group (SB1)            | Spring 2011-Fall 2011 |
| Member | Vice-President of University of University College Search Committee | Spring 2012           |
| Member | Graduate Recruitment  | Spring 2013-Fall 2013 |

## **HATCH MULTISTATE**

1. Impact Analyses and Decision Strategies for Agricultural Research (NC1034).
2. Industrial Hemp Production, Processing and Marketing in the U.S. (S1084).
3. Motivations for Growing Industrial Hemp: Farmers, Producers, Manufacturers, Retailers, Consumers, Citizens, and Policymakers (NE2105).

## **PROFESSIONAL ORGANIZATIONS**

### **International/National**

Western Agricultural Economics Association, January 2020-Present.

- Member

International Society of Precision Agriculture, February 2014- Present

- Member

Agricultural & Applied Economics Association, February 2007-Present

- Member
- Task Force on Mentoring and Young Professional Development Member (August 2011- May 2012)
- Section Leader for the Student Section (July 2012-July 2016)

Southern Agricultural Economics Association, October 2006-Present

- Member
- Poster Committee Chair 2019
- Outstanding Dissertation Committee 2020-2022

Delta States Farm Managers (SERA35), May 2007-Present

- Attendee

American Society of Farm Managers and Rural Appraisers, November 2009-December 2021

- Executive Council, Academic Vice President (October 2018-October 2021)
- Member, Governmental Relations Committee (January 2017-January 2020)
- Member, Sponsorship Committee (January 2015-January 2016)
- Academic Member, Editorial Board Member (August 2010-December 2021)
- Management/Consulting/Accrediting (August 2011-August 2014)

Center for Natural Resource Economics & Policy, May 2006-August 2010

- Alumni Member

### **State**

Kentucky Farm Managers and Rural Appraisers, August 2010-December 2021

Academic Member (August 2010-December 2021)

College Vice-President (October 2010-December 2021)

Kentucky Agricultural Council, January 2011-December 2013

- Taskforce Member

Kentucky Agricultural Leadership Program, January 2012-December 2013

- Board Member

## **LEADERSHIP & OTHER ACTIVITIES**

### **Continuing Education & Leadership Training**

Completed Workshop, Leadership Development for Agricultural and Applied Economists. Austin, TX. July 31, 2021.

Completed Workshop, Grant Writing Workshop. December 14-15, 2020. Virtual.

Completed Course, Project Management Professional Exam Facilitated Study, University of Louisville Professional Development, 36 Professional Development hours, 8/7/18-10/23/18.

Completed Workshop, Grant Writing Workshop. July 23-24, 2018. Knoxville, TN.

Completed Course, Project Management Practical Application, University of Louisville Professional Development, 36 Professional Development hours, 6/18/18-7/26/18.

Completed Course, Fundamentals of Project Management, University of Louisville Professional Development, 12 Professional Development hours, 6/4/18-6/14/18.

2013-2014 MSU President's Leadership Academy, The President's Leadership Academy was established in 2006 at Morehead State University to provide quality professional development experiences to nominated and selected faculty, staff and administrators exhibiting the potential for effective leadership. Participants are provided opportunities to increase their awareness of the complexity of issues facing the University and postsecondary education. Class members are challenged to expand their understanding of the environment in which University decisions are made.

<http://www.moreheadstate.edu/pla/>

2013 National Science Foundation, "Science: Becoming the Messenger," March 5, 2013. Louisville, KY. *Participant:*

[http://www.nsf.gov/events//event\\_summ.jsp?cntn\\_id=126648](http://www.nsf.gov/events//event_summ.jsp?cntn_id=126648)

2012 Project Kaleidoscope (PKAL) Summer Leadership Institute, "Advancing what works in STEM education." July 31 – August 5 in Crestone, CO. *Selected Participant:* I was one of 40 attendees from across the US and Canada selected to attend. Designed for early and mid-career STEM faculty with the objective of providing attendees with key insights into their leadership strengths and how to leverage them while becoming change agents for improving STEM education on their campuses.

2012 AAEA Mentoring Program, AAEA Annual Meeting in Seattle, WA, August 11-15. *Selected Participant:* I was one of 12 selected to participate in this inaugural class. This is an attempt to put together a more formal mentoring program for the entire organization and is a yearlong process culminating with an ending session at the 2013 AAEA Annual Meeting.

### **Award Nominations**

Nominated for the Ken Freedman Outstanding Faculty Advisor Award. January 2017, University of Kentucky

Nominated for the Ken Freedman Outstanding Faculty Advisor Award. February 2016, University of Kentucky

### **Community Service**

Deacon, Gateway Christian Church, Mount Sterling, KY; January 2012 – December 2016  
Member, Montgomery County Cattlemen’s Association; February 2011 – January 2020  
Member, Montgomery County FFA Chenault Fund; January 2001 – December 2020

### **Consulting**

**Mark, T.B.**, “Enhancing the Student-Faculty Engagement in Professional and Pedagogical Opportunities through Teaching, Research, and Outreach Activities.” Consulting Project and I am serving as an outside reviewer for this Capacity Building Grant for Non-Land Grant Colleges of Agriculture. The PI of this grant is J Dominique Gumirakiza at Western Kentucky University, March 2015-March 2019.

### **Other Activities**

2013 Governors Scholar Program, “Agribusiness and Biotechnology Focus Group”  
The Governor’s Scholars Program is a summer residential program for outstanding high school students in Kentucky who are rising seniors. The Program originated in 1983 as a result of Kentucky leaders’ concern that the state’s “best and brightest” were leaving the Commonwealth to pursue educational and career opportunities elsewhere without fully understanding the potential of their talents at home.

2011 Kentucky Farm Bureau Farmer of the Year Judge, Morehead State University; August 2011. *Invited Judge:* I was one of three judges invited to help select the Farmer of the Year for Kentucky who will then go on to compete in the National competition.

2011 Bioenergy Tour, Morehead State University, May 3-5, 2011. *Invited Participant:* One of the several invited participants to attend a Bioenergy Tour sponsored by the Governor’s Office of Agricultural Policy and Secretary of Energy & Environment Cabinet.

### **COMPUTER SKILLS**

#### **Modeling and Statistical Packages**

ArcMap, R, STATA, GeoDa, Yield Editor, SIMETAR, MSBG

#### **Class Delivery Systems**

- BlackBoard, iTV, Canvas, Google Drive