

## Charles B. Moss, Ph.D.

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### Education

Doctor of Philosophy, December 1987, Purdue University, West Lafayette, Indiana. General Area of Study; Agricultural Finance, Agricultural Policy, Macroeconomics, Quantitative Methods. Thesis: "*The Effect of Macroeconomic Factors on the Well-Being of a Representative Midwestern Crop and Livestock Farm.*" Major Advisor, Dr. Tim Baker.

Master of Science, August 1984, Oklahoma State University, Stillwater, Oklahoma. General Area of Study; Agricultural Finance, Agricultural Policy, Quantitative Methods.

Bachelor of Science in Agriculture, December 1982, Oklahoma State University, Stillwater, Oklahoma. Agricultural Economics-Accounting (double major).

### Professional Experience

University of Florida, Department of Food and Resource Economics. Professor, August 1987 to present. Appointment: research and teaching in the area of agricultural finance and econometrics.

Co-Editor *Journal of Agricultural and Applied Economics*, 1999-2001.

Editorial Boards *American Journal of Agricultural Economics* 2018-2021, *Journal of Agricultural and Resource Economics*, 1998-2000, *Journal of Agricultural and Applied Economics*, 1996-1999.

### Selected Publications

Featherstone, Allen M., Charles B. Moss, Timothy G. Baker, and Paul V. Preckel. 1988. The Theoretical Effects of Farm Policies on Optimal Leverage and the Probability of Equity Loss. *American Journal of Agricultural Economics* 70(3): 572-579. [DOI: [10.2307/1241495](https://doi.org/10.2307/1241495), JSTOR: [1241495](https://www.jstor.org/stable/1241495)] 20 Web of Science Citations.

Moss, Charles B. and J.S. Shonkwiler. 1993. Estimating Yield Distributions Using a Stochastic Trend Model and Nonnormal Errors. *American Journal of Agricultural Economics* 75(4): 1056-1062. [DOI: [10.2307/1243993](https://doi.org/10.2307/1243993), JSTOR: [1243993](https://www.jstor.org/stable/1243993)] 54 Web of Science Citations.

Featherstone, Allen M. and Charles B. Moss. 1994. Measuring Economies of Scale and Scope in Agricultural Banking. (Invited) *American Journal of Agricultural Economics* 76(3): 655-661. [DOI: [10.2307/1243685](https://doi.org/10.2307/1243685), JSTOR: [1243685](https://www.jstor.org/stable/1243685)] 19 Web of Science Citations

Purvis, Amy, William G. Boggess, Charles B. Moss and John Holt. 1995. Technology Adoption Decisions Under Irreversibility and Uncertainty: An *Ex Ante* Approach. *American Journal of Agricultural Economics* 77(3): 541-551. [DOI: [10.2307/1243223](https://doi.org/10.2307/1243223), JSTOR: [1243223](https://www.jstor.org/stable/1243223)] 58 Web of Science Citations.

Ramirez, Octavio A., Charles B. Moss, and William G. Boggess. 1997. A Stochastic Optimal Control Formulation of the Consumption/Debt Decision. *Agricultural Finance Review* 57: 29-38.

- Moss, Charles B. 1997. Returns, Interest Rates, and Inflation: How They Explain Changes in Farmland Values. *American Journal of Agricultural Economics* 79(4): 1311–1318. [DOI: [10.2307/1244287](https://doi.org/10.2307/1244287), JSTOR: 1244287] 14 Web of Science Citations.
- Moss, Charles B., Gordon Rausser, Andrew Schmitz, Timothy G. Taylor, and David Zilberman (Editors). 2002. *Agricultural Globalization, Trade and the Environment* Boston: Kluwer Academic Publishers. [DOI: [10.1007/978-1-4615-1543-2](https://doi.org/10.1007/978-1-4615-1543-2)]
- Moss, Charles B. and Andrew Schmitz (Editors). 2003. *Government Policy and Farmland Markets: The Maintenance of Farmer Wealth* Ames, Iowa: Iowa State University Press. [DOI: [10.1002/9780470384992](https://doi.org/10.1002/9780470384992)]
- Blank, Steven C., Kenneth W. Erickson, and Charles B. Moss. 2005. Profit Patterns Across American Agriculture. *Journal of Agricultural and Resource Economics* 30(2): 205–230. [JSTOR: 40988068] 7 Web of Science Citations.
- Livanis, Grigorios, Charles B. Moss, Vincent E. Breneman, and Richard F. Nehring. 2006. Urban Sprawl and Farmland Prices. *American Journal of Agricultural Economics* 88(4): 915–929. [DOI: [10.1111/j.1467-8276.2006.00906.x](https://doi.org/10.1111/j.1467-8276.2006.00906.x), JSTOR: 4123536] 43 Web of Science Citations
- Mishra, Ashok K., Charles B. Moss, and Kenneth W. Erickson. 2008. The Role of Credit Constraints and Government Subsidies in Farmland Valuation in the U.S.: An Options Pricing Model Approach. *Empirical Economics* 34(2): 285–297. [DOI: [10.1007/s00181-007-0122-9](https://doi.org/10.1007/s00181-007-0122-9)] 11 Web of Science Citations.
- Moss, Charles B. 2010. *Risk, Uncertainty, and the Agricultural Firm* Hackensack, New Jersey: World Scientific Publishing Company. [DOI: [10.1142/7469](https://doi.org/10.1142/7469)]
- Schmitz, Andrew, Charles B. Moss, Troy G. Schmitz, Hartley W. Furtan, and H. Carole Schmitz. 2010. *Agricultural Policy, Agribusiness, and Rent-Seeking Behaviour* Second Edition Toronto: University of Toronto Press.
- Salois, Matthew J., Charles B. Moss, and Kenneth W. Erickson. 2012. Farm Income, Population, and Farmland Prices: A Relative Information Approach. *European Review of Agricultural Economics* 39(2): 289-307. [DOI: [10.1093/erae/jbr032](https://doi.org/10.1093/erae/jbr032)] 3 Web of Science Citations.
- Moss, Charles B. 2013. *Agricultural Finance*. Routledge. [DOI: [10.4324/9780203549353](https://doi.org/10.4324/9780203549353)]
- Moss, Charles B. 2014. *Mathematical Statistics for Applied Econometrics*. Chapman and Hall/CRC.
- Suh, Dong Hee and Charles B. Moss. 2017. Dynamic Adjustment of Ethanol Demand to Crude Oil Prices: Implications for Mandated Ethanol Usage. *Empirical Economics* 52(4): 1587-1607. [DOI: [10.1007/s00181-016-1112-6](https://doi.org/10.1007/s00181-016-1112-6)]
- Suh, Dong Hee and Charles B. Moss. 2017. Decompositions of Corn Price Effects: Implications for Feed Grain Demand and Livestock Supply. *Agricultural Economics* 48(4): 491-500. [DOI: [10.1111/agec.12350](https://doi.org/10.1111/agec.12350)]

**Other publications** include over one hundred refereed journal articles, six edited volumes, and twenty-four chapters in books. In total these works have been cited 312 times in Thompson’s Web of Science - Thompson Research ID: [U-5254-2017](https://orcid.org/0000-0002-1172-7112), ORCID: [000-0002-1172-7112](https://orcid.org/0000-0002-1172-7112), and Scopus ID: [7202192711](https://orcid.org/0000-0002-1172-7112)

## Recent Courses Taught

- AEB 7182** – *Agricultural Risk Analysis and Decision Making*. This course is a review of the conceptual framework and research methods for the analysis of decision making under risk by agricultural producers. The course covers expected utility theory, risk programming, stochastic dominance, and dynamic decision models. [Online Materials – <http://www.charlesbmoss.com:8080/agricultural.risk>]
- AEB 7184** – *Production Economics*. The purpose of this course is to introduce students to the standard theoretical and empirical models used in the investigation of firm level production decisions. [Online Materials – <http://www.charlesbmoss.com:8080/production.economics>]
- AEB 7571** – *Econometric Methods I*. This course develops statistical foundations that will be used in microeconomic theory, econometrics, production economics, and financial economics. The development focuses primarily on the mathematical formulation of statistics. [Online Materials – <http://www.charlesbmoss.com:8080/econometrics.mathstat>]
- AEB 7572** – *Econometric Methods II*. This course is a thorough introduction to the basic techniques in modern econometrics. Topics covered include Matrix Algebra, Ordinary Least Squares, Generalized Least Squares, System Estimators, Limited Dependent Variables, and Times Series estimation. The course will be focuses on both the theoretical methods and empirical applications. [Online materials – <http://www.charlesbmoss.com:8080/econometrics.principles>].
- AEB 6933** – *Computational Methods for Food and Resource Economics*. This course introduces students to applied numerical methods in agricultural an applied economics including computable general equilibrium analysis, finite games, non-linear prices models, dynamic programming, and welfare analysis. [Online Materials – <http://www.charlesbmoss.com:8080/econometrics.computation>]
- AEB 6933** – *Macroeconomics and Microeconomics of Agricultural Finance*. This course extends the traditional managerial analysis of agricultural finance presented in introductory and intermediate classes in agricultural finance. The course starts with the neoclassical economic model of the capital market then extends this formulation to include principal agent problems, arbitrage models of the capital market, and macroeconomic models of money and banking. [Online Materials – <http://www.charlesbmoss.com:8080/finance.macro-micro>]

## Grants

- National Needs Fellowship. USDA, 1992–95.
- Recreational Demand for Reef fish. National Marine and Fisheries Service, 1992–94.
- Dynamic Supply of Florida Valencias. Florida Dept. of Citrus, 1992–94.
- Projected Water Demand by Agriculture in the Northwest Florida Water Management District. Northwest Florida Water Management District, 1997–98.
- Irrigation Projections in Georgia’s ACT/ACF Basin: 1995–2020. Northwest Florida Water Management District, 1998–99.
- Estimation of Household Water Demand in Northeast Florida: Implications of Drought and Population Growth – Saint Johns River Water Management District May 1999–April 2000.
- Crop Patterns and Water Use under Free Trade – USDA/NRI August 1999–July 2000.
- Competitiveness in Agricultural Credit Markets – USDA/NRI August 1999–July 2000.

- Measurement of the Agricultural Land Input in Production Accounts – USDA/ERS August 1999–July 2000.
- Coalitions and International Competitiveness: The Case of U.S. Sugar Policy – USDA/NRI July 2001–June 2002.
- Conference on Government Policy and Farmland Markets: Implications of the New Economy – USDA/NRI July 2001–June 2002.
- Estimation of the Economic Effect of Africanized Honey Bees using Secondary Data – Florida Department of Agriculture and Consumer Services January 2007–June 2007.
- An External Review of the Balance Sheet and Income Statements Collected by the Agricultural Resource Management Survey – United States Department of Agriculture/Economic Research Service September 2010 – March 2012 (funded through Kansas State University).
- Effect of Housing Slump on Farmland Values in Florida – AgFirst Farm Credit Bank December 2010 – June 2011.

### **Students Supervised**

- Amy Purvis Pagaono (Co-Chair) “Ex Ante Forecasting of Uncertain and Irreversible Dairy Investments: Implications for Environmental Compliance.” Ph.D. August 1993.
- Dave D. Weatherspoon (Co-Chair) “Cross Country Convergence of Gross Domestic Products and Associated Factors: A Cointegration Approach.” Ph.D. December 1993.
- Sri Devi Deepak (Co-Chair) “Human Capital, Convergence, and Income Inequality.” Ph.D. August 1995.
- Gretchen Greene (Co-Chair) “Angling in Tampa Bay: A Nested Random Utility Model of Nonmarket Demand for Marine Recreational Fishing.” M.S. August 1995.
- Rebecca Hui-Wen Chung (Co-Chair) “Incorporating Nutrient Variables in Food Demand Analysis.” Ph.D. December 1997.
- Gretchen Greene (Co-Chair) “Transitions in the Mexican Sugar Industry.” Ph.D. August 1998.
- Gustavo Adolfo Guerra Galindo (Thesis Advisor) “Mathematical Model for Theory of Games in the Coffee Market of Coatepec, Veracruz.” Ph.D. (Universidad Autonoma Chapingo) September 2000.
- Grigorios Livanis “The Differential Production Model with Quasi-Fixed Inputs: A Panel Data Approach to U.S. Banking.” Ph.D. August 2004.
- Chris de Bodisco (Thesis Advisor) “The Regional Value of Water in Agriculture.” Ph.D. (Vanderbilt University) August 2007.
- Lan Cheng “A Hyperbolic Tangent Yield Function of Florida Citrus.” M.S. August 2007.
- Matthew J. Salois “Intertemporal Preferences and Time-Inconsistency: The Case of Farmland Values and Rural-Urban Land Conversion.” Ph.D. August 2008.
- Nathan D. Van Steenberg (Co-Chair) “The Effect of Eminent Domain on Property Values.” M.S. December 2009.
- Maria Bampasidou (Co-Chair) “Unbundling the Degree Effect in a Job Training Program for Disadvantaged Youth.” Ph.D. December 2012.
- Dong Hee Suh “The Unintended Consequences of the Ethanol Mandate in the Agricultural and Energy Sectors.” Ph.D. August 2014.

- Xinxin Zhang “Valuing Insurance Products for Florida Colored Seedless Grapefruit: the Effect of Spatial Correlation and Non-Normality.” Ph.D. August 2014.
- Mihaela Marcu “Privatization Effects on Efficiency in the Water and Wastewater Industry in Former Socialist Countries.” Ph.D. December 2014.
- Olufemi Daniel Bolarinwa “Agricultural Commercialization and Food Security in Sub-Saharan Africa.” Ph.D. May 2016.

## Awards

Emerald Literati Award in 2018 For “Commemorating 100 Years of Farm Credit” (with Ashok Mishra)

IFAS High Impact Research Publication, 2014 (with Danny Klinefelter, and Michael Gunderson).

Agricultural and Applied Economics Association Quality of Communication Award, 2013 (with Allen Featherstone and Christine Wilson).

Southern Agricultural Economics Association Lifetime Achievement Award, 2013.

American Agricultural Economics Association Quality of Research Discovery Award, 2007 (with Grigorios Livanis, Vincent Breneman, and Richard Nehring)

Outstanding Journal Article 2006 *Journal of Agricultural and Resource Economics* (with Steven C. Blank and Kenneth W. Erickson)

## References

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