

JON T. BIERMACHER

CURRICULUM VITA

Office Address:

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Principle Research Interests:

Research, extension and outreach interests focuses on the economics of forage-based beef production and management systems, precision agriculture technologies, forage and crop nutrient and pesticide management, and biomass and feedstock development systems.

Education:

Oklahoma State University
Doctor of Philosophy, Agricultural Economics, 2005
Adviser: Dr. Francis M. Epplin
Three Essay Dissertation: "Economic Feasibility of Site-Specific Optical Reflectance Technology as an Alternative for Managing Nitrogen Application to Winter Wheat."

Southern Illinois University Carbondale
Master of Science, Agricultural Economics, 2000
Adviser: Dr. Roger J. Beck
Thesis: "The Expected Regional Economic Effects from the Widespread Adoption of Biotechnologically Advanced Corn."

Southern Illinois University Carbondale
Bachelor of Science, Agribusiness Economics, 1997

Saint Petersburg State Agrarian University, Pushkin, Russia
International Agricultural Exchange Program, Summer Semester, 1996.

John A. Logan College
Associate of Arts and Science, Business Economics, 1994

Professional Experience:

- 9/09- Adjunct Assistant Professor, Department of Agricultural Economics, Oklahoma State University.
- 8/05- Assistant Professor and Agricultural Economist, the Samuel Roberts Noble Foundation, Inc (Supervisor, John Blanton, Jr.).
- 1/05-8/05 Research and Teaching Assistant, Department of Agriculture Economics, Oklahoma State University (Supervisor, B. Wade Brorsen).
- 8/04-1/05 Research Assistant, Department of Biosystems and Agricultural Engineering, Oklahoma State University (Supervisor, John B. Solie).
- 8/03-12/03 Teaching Assistant, Mathematical Economics, Department of Agricultural Economics, Oklahoma State University (Supervisor, Francis M. Epplin).
- 8/00-5/03 Research Assistant, Department of Agricultural Economics, Oklahoma State University (Supervisor, Francis M. Epplin).
- 8/96-12/99 Teaching Assistant, Fall Semesters, ABE 350 Farm Management, Department of Agribusiness Economics, Southern Illinois University Carbondale (Supervisor, Steve E. Kraft).
- 1/97-5/00 Teaching Assistant, Spring Semesters, ABE 419 Applications of Information Technology to Agribusiness, Department of Agribusiness Economics, Southern Illinois University Carbondale (Supervisor, Philip Eberle).
- 1/97-5/00 Teaching Assistant, Spring Semesters, ABE 451 Farm Real Estate Appraisal, Department of Agribusiness Economics, Southern Illinois University Carbondale (Supervisor, Philip Eberle).

Referred Publications (11):

Guretzky, J.A., M. Kering, J. Mosali, E. Funderburg, **J.T. Biermacher**. "Fertilizer Rate Effects on Forage Yield Stability and Nutrient Uptake of Midland Bermudagrass." *Journal of Plant Nutrition* 33:12(2010): 1819-1834.

Kering, M.K., **J.T. Biermacher**, B.J. Cook, and J.A. Guretzky. "Switchgrass for Forage and Bioenergy: II. Effects of P and K fertilization." Proceedings of the International Plant Nutrition Colloquium XVI, Paper 1318, 2009: 1-10.

Kering, M.K., **J.T. Biermacher**, B.J. Cook, and J.A. Guretzky. "Switchgrass for Forage and Bioenergy: I. Energy of Nitrogen Rate and Harvest System." Proceedings of the International Plant Nutrition Colloquium XVI, Paper 1158, 2009: 1-9.

Biermacher, J.T., C.R. Coffey, B.J. Cook, D. Childs, J. Johnson, and D. Ford. "Economic Advantage of No-Tilling Winter Forages for Stocker Grazing." *Journal of the American Society of Farm Managers and Rural Appraisers* 72(2009): 27-36.

Biermacher, J.T., B.W. Brorsen, F.M. Epplin, J.B. Solie, and W.R. Raun. “Economic Potential for Precision Agriculture Based on Plant Sensing Technology.” *Agricultural Economics* 40(2009): 397-407.

Biermacher, J.T., F.M. Epplin, B.W. Brorsen, J.B. Solie, and W.R. Raun. “Nitrogen Fertilization of Growing Wheat Based upon Site-Specific Optical Sensing.” *Precision Agriculture* 10-3(2009): 213-220.

Biermacher, J.T., S. Upson, D. Miller, and D. Pittman. “Economic Challenges of Small Scale Vegetable Production and Retailing in Rural Communities: An Example from Rural Oklahoma.” *Journal of Food Distribution Research* 38-3(2007): 1-13.

Cook, B., **J.T. Biermacher**, and D. Childs. “Value of Pregnancy Testing Spring Calving Beef Cows.” Proceedings of the 16th International Farm Management Association Congress. 2007: 276-287.

Biermacher, J.T., B.W. Brorsen, F.M. Epplin, J.B. Solie, and W.R. Raun. “What is the potential for Precision Agriculture Based on Plant Sensing?” Proceedings of the 16th International Farm Management Association Congress. 2007: 338-347.

Biermacher, J.T., F.M. Epplin, B.W. Brorsen, J.B. Solie and W.R. Raun. “Maximum Value of a Precise Nitrogen Application System for Wheat.” *Precision Agriculture* 7-3(2006): 193-204.

Biermacher, J.T., F.M. Epplin, and K.R. Keim. “Cropping Systems for the Southern Great Plains of the United States as Influenced by Federal Policy.” *Journal of Renewable Agriculture and Food Systems* 21-2(2006): 71-77.

Publications in Press (1):

Guretzky, J.A., **J.T. Biermacher**, B.J. Cook, M.K. Kering, and J. Mosali. “Switchgrass for Forage and Bioenergy: Harvest and Nitrogen Rate Effects on Biomass Yields and Nutrient Composition.” *Plant Soil* (In press).

Publications in Review (7):

DeVuyst, E., **J.T. Biermacher**, J.L. Lusk, J. Blanton, Jr., S. Swigert, J. Donnell., B.J. Cook., and R. Reuter. “Relationship Between Fed Cattle Traits and Igenity Panel Scores.” *Journal of Animal Science* (2nd revision).

Funderburg, E., and **J.T. Biermacher**. “Effects of Fertilization and Herbicide Application on Yield, Quality and Profitability of Native Grass Production.” *Forage and Grazinglands* (in review).

Tumusiime, E., B.W. Brorsen, J. Mosali, J. Johnson, J. Locke, and **J.T. Biermacher**. “Determining the Optimal Level of Nitrogen Fertilizer using Random Parameter Models.” *Journal of Agricultural and Resource Economics* (1st revision).

Tumusiime, E., B.W. Brorsen, J. Mosali, and **J.T. Biermacher**. “How Much Does Considering the Cost of Lime Affect the Recommended Level of Nitrogen?” *Agronomy Journal* (in review).

Springer, J.D., **J.T. Biermacher**, M.D. Childs, and D.O. Alkire. “Attributes Preferred and Premiums Offered for Naturally Produced Cattle.” *Journal of Food Distribution Research* (2nd revision).

Kering, M.K., **J.T. Biermacher**, T.J. Butler and J.A. Guretzky. “Nitrogen-Fertilized Rye Provides More Pasture than Legume-Interseeded Rye.” *Plant Soil* (In review).

Islam, M.A., **J.T. Biermacher**, S.M. Interrante, R.R. Reuter, A.A. Hopkins, B.J. Cook, J.H. Bouton, and T.J. Butler. “Production and Economics of Grazing Cereal Rye/Annual Ryegrass and Tall Fescue Stocker Systems in the Southern Great Plains of USA.” *Agronomy Journal* (in review).

Extension and Outreach Publications (16):

Amadou, Z., K. Curry Raper, **J.T. Biermacher**, B.J. Cook and C.E. Ward. “Adding Value to Cull Cows: Part II.” Oklahoma Cooperative Extension Service, Extension fact sheet AGEC-725, August 2010.

Biermacher, J.T., R. Reuter, and M. Kering. “The Economics of N-fixing Legumes in Bermudagrass Pastures.” *Ag News and Views*. Noble Foundation Press, May, 2010.

Amadou, Z., K. Curry Raper, **J.T. Biermacher**, B.J. Cook, and C.E. Ward. “Adding Value to Cull Cows.” Oklahoma Cooperative Extension Service, Extension fact sheet AGEC-619, August 2009.

Amadou, Z., C. Ward, K. Curry Raper, B.J. Cook, and **J.T. Biermacher**. “Managing Cull Cows for Additional Value.” *Master Cattleman Quarterly* 3(2009): 3-4.

Oswald, D., and **J.T. Biermacher**. “Implications of Proposed Cap-and-Trade Legislation for Landowners.” *Ag News and Views*, Noble Foundation Press, June, 2009.

Springer, J.D., **J.T. Biermacher**, D.O. Alkire and M.D. Childs. “Premiums Being Offered for Naturally Produced Cattle.” *Ag News and Views*, Noble Foundation Press, May, 2009.

Biermacher, J.T., and J. Blanton. “Healthcare Study Has Implications for Livestock Industry.” *Ag News and Views*, Noble Foundation Press, April, 2009.

Biermacher, J.T., J. Blanton, R. Reuter, and J.D. Springer. “Commingling and Marketing Value-Added Cattle.” *Ag News and Views*, Noble Foundation Press, March, 2009.

Kenkel, P., and **J.T. Biermacher**. “Feedstocks Workshop Report: Policy Development and Analysis Workgroup Report.” Sun Grant Initiative, South Central Region, Tulsa, Oklahoma, September 11-13, 2007.

Biermacher, J.T., B.J. Cook, and J.A. Guretzky. “Establishing Switchgrass for Grazing and Energy.” *Ag News and Views*, Noble Foundation Press, April, 2008.

Biermacher, J.T., B.J. Cook, and J.A. Guretzky. “Establishing Switchgrass for Grazing and Energy.” *Midwest Cattleman*, April 24, 2008:9-10.

Biermacher, J.T., and C.R. Coffey. “Does Conservation Pay for Winter Forage Production?” *Ag News and Views*, Noble Foundation Press, October, 2008.

Gee, K., and **J.T. Biermacher**. “Prescribed Burning—What is the Cost?” *Ag News and Views*, Noble Foundation Press, July, 2007.

Biermacher, J.T. “Cross-Divisional Projects Benefit Producers and Researchers.” *Ag News and Views*, Noble Foundation Press, May, 2007.

Biermacher, J.T. “Agricultural Economic Activity in Noble's Service Area Driven By Forage-Based Beef Production.” *Ag News and Views*, Noble Foundation Press, June, 2006.

Biermacher, J.T. “What is the Value of Pregnancy Testing Beef Cows?” Noble Foundation Press, *Ag News and View*, November, 2006.

Published Abstracts and Proceedings (19):

Kering, M., **J.T. Biermacher**, R. Reuter, T.J. Butler, J.D. Springer, J.K. Rogers, J. Blanton, Jr., J.H. Bouton, and J.A. Guretzky. “Economic Potential for Substituting Synthetic Nitrogen in Warm Season Grasses Used for Stocker Cattle Grazing.” *Journal of Applied Agricultural Economics* 42-3(2010): 582.

Tumusiime, E., B.W. Brorsen, **J.T. Biermacher**, J. Mosali, J. Johnson, and J. Locke. “Determining Optimal Levels of Nitrogen Fertilizer Using Random Parameter Models.” *Journal of Agricultural and Applied Economics* 42-3(2010): 580.

Reuter, R. R., **J.T. Biermacher**, J. K. Rogers, T. J. Butler, M. K. Kering, J. R. Blanton, and J. A. Guretzky. 2010. “Potential of Legumes as Substitutes for Nitrogen Fertilizer in Summer Stocker Grazing Systems.” *Journal of Animal Science*. (in press).

Amadou, Z., **J.T. Biermacher**, K. Raper-Curry, B.J. Cook, and C.E. Ward. “Alternative Management Strategies for Adding Value to Cull Cows.” Proceedings of the 4th National Grazing Lands Conference, July 2010: 59-63.

Guretzky, J.A., R. Reuter, **J.T. Biermacher**, J.D. Springer, T.J. Butler, H. Aljoe, J. Rogers, and B.J. Cook. “Economic Potential of Stocker Cattle Grazing Legume-Interseeded Bermudagrass.” *Journal of Animal Science* 87(2009): 573.

Biermacher, J.T., R. Reuter, A.M. Islam, A. Hopkins, C. Young, B.J. Cook, J. Bouton, and T. Butler. "Value of Tall Fescue Infected with a Novel Endophyte in the Winter Forage Stocker Grazing Enterprise." *Journal of Animal Science* 87(2009): 573.

Oswald, D., and **J.T. Biermacher**. "Implications of Proposed Cap-and-Trade Legislation for Landowners in South Central Oklahoma." Proceedings of the 79th Annual Oklahoma Pecan Growers Association's Annual Meeting, Oklahoma City, OK, June 1-3, 2009.

Guretzky, J.A., **J.T. Biermacher**, R. Reuter, J.R. Blanton Jr., J. Mosali, M. Kering, and B.J. Cook. "Utilization of Switchgrass in a Dual Purpose Stocker Cattle and Bioenergy System." *Journal of Animal Science* 87(2009): 573.

Springer, J.D., **J.T. Biermacher**, M.D. Childs, D.O. Alkire, and Brandon Grooms. "Attributes Preferred and Premiums Offered for Naturally Produced Cattle." *Journal of Agricultural and Applied Economics* 41-2(2009):658.

Islam, M.A., T.J. Butler, A.A. Hopkins, **J.T. Biermacher**, B.J. Cook, and J.H. Bouton. "Comparison of Cereal Rye/Annual Ryegrass and Tall Fescue Stocker Grazing Systems in the Southern Great Plains of USA." Proceedings of the 5th International Crop Science Congress. 2008: 356-360.

Reuter, R., M.D. Childs, and **J.T. Biermacher**, and C.E. Ward. "Effects of Frame Size and Muscle Score on Stocker and Feeder Cattle Profitability." *Journal of Agricultural and Resource Economics* 33-2(2008): 498.

Whitley, E.M., R.R. Reuter, and **J.T. Biermacher**. "Relative Value of Five Byproducts as Supplements to Stocker Cattle." *Journal of Animal Science* 86(2008): 23.

Biermacher, J.T., A.M. Islam, T. Butler, A. Hopkins, B.J. Cook, R. Reuter and J. Bouton. "Value of Tall Fescue Infected with a Novel Endophyte in the Winter Forage Stocker Grazing Enterprise." *Journal of Agricultural and Resource Economics* 33-3(2008): 494.

Biermacher, J.T., C. Coffey, B. Cook, and D. Ford. "Economic Potential of Conservation Farming Annual Winter Forages for the Stocker Cattle Grazing Enterprise." *Journal of Agricultural and Applied Economics* 40-2(2008):726.

Hales, K., G.W. Horn, E. Whitley, M.D. Childs, and **J.T. Biermacher**. "The Value of Soybean Hull Supplementation in Winter Rye Stocker Operations." *Journal of Agriculture and Resource Economics* 32-3(2007):560.

Biermacher, J.T., S. Upson, D. Miller, and D. Pittman. "Economic Feasibility of Small Scale Vegetable Production and Retailing: The Case of Rural Oklahoma." *Journal of Agriculture and Applied Economics* 39-2(2007):419.

Cook, B., **J.T. Biermacher**, and D. Childs. "Value of Pregnancy Testing Beef Cows." *Journal of Agriculture and Applied Economics* 39-2(2007):415.

Biermacher, J.T., F.M. Epplin, J.B. Solie, B.W. Brorsen, and W.R. Raun. “Maximum Value of a Precise Nitrogen Application System for Wheat.” *Journal of Agriculture and Applied Economics* 38-3(2006):661.

Biermacher, J.T., F.M. Epplin, J.B. Solie, B.W. Brorsen, W.R. Raun. “Managing Nitrogen for Winter Wheat Using Site-Specific Optical Sensing.” *Journal of Agriculture and Applied Economics* 36-2(2004):512.

Biermacher, J.T., F.M. Epplin, and K.R. Keim. “FAIR, PostFAIR, and NoFAIR: A Comparison of Cropping Alternatives for the Southern Great Plains.” *Journal of Agriculture and Applied Economics* 33-2(2003):435.

Thesis and Dissertation:

Biermacher, J.T. “Economic Feasibility of Site-Specific Optical Reflectance Technology as an Alternative for Managing Nitrogen Application to Winter Wheat.” Ph.D. Dissertation. Oklahoma State University, 2005.

Biermacher, J.T. “The Expected Regional Economic Effects from the Widespread Adoption of Biotechnologically Advanced Corn.” M.S. Thesis. Southern Illinois University Carbondale, 2000.

Working Papers:

Biermacher, J.T., M.K. Kering, T. Butler., J.D. Springer and J.A. Guretzky. “Economic potential of substituting nitrogen-fixing legumes in Place of Synthetic Source of Nitrogen for Winter Cereal Forage Crops.” (working paper).

Oswald, D., **J.T. Biermacher**, D. Miller, and S. Upson. “Producing Wine Grapes Using High Tunnel Mesh Canopy Technology in South Central Oklahoma.” Noble Foundation Working Paper.

Springer, J.D., and **J.T. Biermacher**. “Managing Beef Cows at the Noble Foundation.” Noble Foundation Working Paper.

Biermacher, J.T., J. Donnell, K. Hales., M.D. Childs, E. Whitley, and G. Horn. “Economic Feasibility of Soybean Hull Supplementation in the Winter Stocker Grazing Enterprise.” (working paper).

Cook, B.J., **J.T. Biermacher**, and D. Childs. “Economic Value of Pregnancy Testing Spring Calving Beef Cows.” (working paper).

Biermacher, J.T., R. Reuter, and B.J. Cook. “Factors Affecting Animal Performance and Economics of Preconditioning Sale Barn Cattle.” (working paper).

Springer, J., R.R. Reuter, J.K. Rogers, and **J.T. Biermacher**. “Economic Feasibility of an Intensively Managed Year-Round Stocker Cattle System as an Alternative Enterprise in the Southern Great Plains.” (working paper).

Professional Presentations (41):

Amadou, Z., K. Curry Raper, **J.T. Biermacher**, B.J. Cook and C.E. Ward. “” Selected paper for presentation at the Applied Agricultural Economics Association’s Annual Meeting, Denver, CO, July 28-31, 2010.

Tumsiime, E., B.W. Brorsen, J. Mosali, and **J.T. Biermacher**. “How Much Does Considering the Cost of Lime Affect the Recommended Level of Nitrogen?” Selected paper for presentation at the Applied Agricultural Economics Association’s Annual Meeting, Denver, CO, July 28-31, 2010.

Springer, J.D., R. Reuter, J.K. Rogers, and **J.T. Biermacher**. “What is the Potential for an Intensively Managed, Year-Round Lightweight Stocker Cattle System in the Southern Plains.” Poster prepared for presentation at the American Agricultural Economics Association’s annual meeting, Denver, CO, July 25-28, 2010.

Reuter, R.R., **J.T. Biermacher**, J.K. Rogers, T.J. Butler, M.K. Kering, J.R. Blanton, and J.A. Guretzky. 2010. “Potential of Legumes as Substitutes for Nitrogen Fertilizer in Summer Stocker Grazing Systems.” Selected paper for presentation at the 4th Grazing Livestock Nutrition Conference, Estes Park, Colorado, July 9-10, 2010.

Kering, M.K., **Biermacher, J.T.**, R. Reuter, J.D. Springer, J.K. Rogers, J. Blanton, Jr., T.J. Butler, J.H. Bouton, and J.A. Guretzky. “Economic Potential of Substituting Legumes for Nitrogen in Summer Stocker Grazing Systems.” Selected paper for presentation at the Southern Agricultural Economics Association’s Annual Meeting, Orlando, FL, February 6-11, 2010.

Tumusiime, E., B.W. Brorsen, J. Johnson, J. Locke, J. Mosali, and **J.T. Biermacher**. “Determining Optimal Level of Nitrogen Fertilizer for Rye-Ryegrass Pasture Using a Random Parameter Model.” Selected paper for presentation at the Southern Agricultural Economics Association’s Annual Meeting, Orlando, FL, February 6-11, 2010.

Amadou, Z., **J.T. Biermacher**, K. Raper-Curry, B.J. Cook, and C.E. Ward. “Alternative Management Strategies for Adding Value to Cull Cows.” Selected paper for presentation at the 4th National Conference on Grazing Lands, Reno, Nevada, December 13-16, 2009.

Biermacher, J.T., “Economic Potential of Stocker Cattle Grazing Tall Fescue Infected with a Novel Endophyte in the Southern Great Plains.” Invited research paper presented to the Non-Resident Fellows of the Agricultural Division of the Samuel Roberts Noble Foundation, Ardmore, Oklahoma, October 8th, 2009.

Biermacher, J.T., R. Reuter, A. Hopkins, C. Young, B.J. Cook, J.H. Bouton, and T.J. Butler. “Economic Feasibility of Stocker Cattle Grazing Tall Fescue Infected with a Novel Endophyte in

the Southern Great Plains of the USA.” Selected Paper for Presentation at the SERA-IRG Fescue Toxicosis Annual Meetings, Cadiz, Kentucky, October 4-6, 2009.

Biermacher, J.T. “Agricultural Research, Demonstration, Education and Consultation at the Noble Foundation.” Invited presentation given to the President and Faculty of the Azerbaijan State Agrarian University, Ganca, Azerbaijan, September 25, 2009.

Biermacher, J.T., “Economic Potential of Stocker Cattle Grazing Tall Fescue Infected with a Novel Endophyte in the Southern Great Plains.” Presented to the Agricultural Division Staff of The Samuel Roberts Noble Foundation, Ardmore, Oklahoma, August 5th, 2009.

Biermacher, J.T., and John D. Anderson. “Financial Crisis Impact on Agricultural Commodities.” Selected Paper for Presentation at the Applied Agricultural Economics Association’s Annual Meeting, Milwaukee, WI, July 26-29, 2009.

Biermacher, J.T., C. Coffey, B.J. Cook., D. Childs, J. Johnson, and D. Ford. “Economic Potential of No-Tilling Winter Cereal Forages.” Selected Paper for Presentation at the International Farm Management Association’s Congress, Bloomington, IL, July 19-24, 2009.

Biermacher, J.T., R. Reuter, B.J. Cook, A.M. Islam, A. Hopkins, C. Young, J.H. Bouton, and T.J. Butler. “Economic Feasibility of Stocker Cattle Grazing Tall Fescue Infected with a Novel Endophyte in the Southern Great Plains of the USA.” Selected Paper for Presentation at the Joint Annual Meetings of the American Dairy Science Association/American Society of Animal Science/Canadian Society of Animal Science, Montreal, Quebec, Canada, July 12-16, 2009.

Guretzky, J., R. Reuter, **J.T. Biermacher**, J.D. Springer, T.J. Butler, H. Aljoe, J. Rogers, and B.J. Cook. “Economic Potential of Stocker Cattle Grazing Legume-Interseeded Bermudagrass.” Selected Paper for Presentation at the Joint Annual Meetings of the American Dairy Science Association/American Society of Animal Science/Canadian Society of Animal Science, Montreal, Quebec, Canada, July 12-16, 2009.

Guretzky, J.A., **J.T. Biermacher**, R. Reuter, J.R. Blanton Jr., J. Mosali, M. Kering and B.J. Cook. “Utilization of Switchgrass in a Dual Purpose Stocker Cattle and Bioenergy System.” Selected Paper for Presentation at the Joint Annual Meetings of the American Dairy Science Association/American Society of Animal Science/Canadian Society of Animal Science, Montreal, Quebec, Canada, July 12-16, 2009.

Biermacher, J.T., R. Reuter, A.M. Islam, A. Hopkins, B.J. Cook, C. Young, J.H. Bouton, and T.J. Butler. “Economic Feasibility of Stocker Cattle Grazing Tall Fescue Infected with a Novel Endophyte in the Rolling Plains.” Selected Paper for Presentation at the Annual Meeting of the Southwestern Wheat Research and Extension Consortium, Amarillo, Texas, March 24-25, 2009.

Biermacher, J.T., “The Economic Potential of Precision Applications of Nitrogen on Wheat Based on Plant Sensing Technology.” Invited Paper Prepared for Presentation to the Faculty of the Department of Agricultural Economics, Purdue University, West Lafayette, IN, March 9, 2009.

Amadou, Z., C.E. Ward, K. Curry Raper, B.J. Cook, and **J.T. Biermacher**. “Management Productions Systems and Timing Strategies for Cull Cows.” Selected Paper for Presentation at the Southern Agricultural Economics Association’s Annual Meeting, Atlanta, GA, February 1-3, 2009.

Springer, J.D., **J.T. Biermacher**, M.D. Childs, D.O. Alkire, and Brandon Grooms. “Attributes Preferred and Premiums Offered for Naturally Produced Cattle.” Selected Paper for Presentation at the Southern Agricultural Economics Association’s Annual Meeting, Atlanta, GA, February 1-3, 2009.

Guretzky, J.A., **J.T. Biermacher**, E. Funderburg, J. Mosali, J. Ball, and S. Norton. “Forage Yield Stability of Fertilized Bermudagrass in the Great Plains.” Selected Paper for Presentation at the ASA-CSSA-SSSA International Annual Meetings, Houston, TX, October 5-9, 2008.

Guretzky, J.A., B.J. Cook, **J.T. Biermacher**, R.R. Reuter, J. Mosali and M. Kering. “Utilization and Value of Switchgrass in a Dual Purpose Stocker Cattle and Bioenergy System.” Selected Paper for Presentation at the 2008 Association for the Advancement of Industrial Crops 20th Annual Meeting, College Station, TX, September 7-11, 2008.

Reuter, R., M.D. Childs, and **J.T. Biermacher**. “Effects of Frame Size and Muscle Score on Stocker and Feeder Cattle Profitability.” Selected Paper for Presentation at the Western Agricultural Economics Association’s Annual Meeting, Big Sky, MT, July 25-27, 2008.

Biermacher, J.T., A.M. Islam, T. Butler, A. Hopkins, B.J. Cook, R. Reuter and J. Bouton. “Value of Tall Fescue Infected with a Novel Endophyte in the Winter Forage Stocker Grazing Enterprise.” Selected Paper for Presentation at the Western Agricultural Economics Association’s Annual Meeting, Big Sky, MT, July 25-27, 2008.

Biermacher, J.T., R.J. Beck, and D.A. Lightfoot. “Measuring the Expected Regional Economic Effects of On Farm Adoption of Insecticide Resistant Corn.” Selected Paper for Presentation at the Joint Mid-Continent Regional Science Association’s/National IMPLAN User’s Annual Conference, Colorado Springs, CO, June 5-7, 2008.

Islam, A.M., T.J. Butler, A.A. Hopkins, **J.T. Biermacher**, B.J. Cook, and J.H. Bouton. “Comparison of Cereal Rye/Annual Ryegrass and Tall Fescue Stocker Grazing Systems in the Southern Great Plains of USA.” Selected Paper for Presentation at the International Forage and Grazing Association’s Annual Meeting, Seoul, South Korea, 2008.

Biermacher, J.T. “Benefits of Soybean Hull Supplementation in the Stocker Cattle Grazing Enterprise and Their Implications for the Regional Economy.” Presented to the Department of Agricultural Economics, Texas A&M University, College Station, TX, February 28, 2008.

Whitley, E.M., R.R. Reuter, and **J.T. Biermacher**. “Relative Value of Five Byproducts as Supplements to Stocker Cattle.” Selected Paper for Presentation at the Southern Association of Agricultural Scientists Annual Meeting, Dallas, TX, February 2-5, 2008.

Biermacher, J.T., C. Coffey, B.J. Cook., and D. Ford. “Economic Potential of Conservation Farming of Winter Forages for Stocker Cattle Grazing in the Southern Great Plains.” Selected Paper for Presentation at the Southern Agricultural Economics Associations Annual Meeting, Dallas, TX, February 2-5, 2008.

Coffey, C., **J.T. Biermacher**, B.J. Cook., and D. Ford. “Value of Conservation Farming Winter Forages in the Stocker Cattle Grazing Enterprise.” Selected Paper for Presentation at the Joint Meeting of the Society of Range Management and American Forage and Grassland Council, Louisville, KY, January 26-31, 2008.

Hales, K., G. Horn, E. Whitley, M.D. Childs, and **J.T. Biermacher**. “Economic Value of Soybean Hull Supplementation in the Winter Stocker Grazing Enterprise.” Selected Paper for Presentation at the Joint Meetings of the AAEA/WAEA/CAEA, Portland, OR, July 28-August 1, 2007.

Cook, B.J., **J.T. Biermacher**, and D. Childs. “Value of Pregnancy Testing Spring Calving Beef Cows.” Selected Paper for Presentation at the 16th International Farm Management Association Congress, Cork, Ireland, July 16-21, 2007.

Biermacher, J.T., B.W. Brorsen, F.M. Epplin, J.B. Solie, and W.R. Raun. “What is the potential for Precision Agriculture Based on Plant Sensing?” Selected Paper for Presentation at the 16th International Farm Management Association Congress, Cork, Ireland, July 16-21, 2007.

Biermacher, J.T., S. Upson, D. Miller, and D. Pittman. “Economic Feasibility of Small Scale Vegetable Production and Retailing: The Case of Rural Oklahoma.” Selected Paper for Presentation at the Southern Agricultural Economics Associations Annual Meeting, Mobile, Alabama, February 2-5, 2007.

Cook, B., **J.T. Biermacher**, and D. Childs. “Value of Pregnancy Testing Beef Cows.” Selected Paper for Presentation at the Southern Agricultural Economics Associations Annual Meeting, Mobile, Alabama, February 2-5, 2007.

Biermacher, J.T., F.M. Epplin, J.B. Solie, B.W. Brorsen, and W.R. Raun. “Managing Nitrogen Fertilizer on Micro Grids.” Selected Paper for Presentation at the American Agricultural Economics Association Annual Meeting, Long Beach, California, July 28-31, 2006.

Biermacher, J.T., F.M. Epplin, J.B. Solie, B.W. Brorsen, and W.R. Raun. “Maximum Value of a Precise Nitrogen Application System for Wheat.” Selected Paper for Presentation at the Southern Agricultural Economics Association Annual Meeting, Orlando, Florida, 2-5, 2006.

Biermacher, J.T. “Economic Potential of Utilizing Plant Sensing Technology to Manage Nitrogen Fertilizer on Winter Wheat.” Presented to the Staff of the Agricultural Division of the Samuel Roberts Noble Foundation, Ardmore, Oklahoma, June 18, 2005.

Biermacher, J.T. “Economic Feasibility of Managing Nitrogen Fertilizer on Growing Wheat with Site Specific Optical Sensing Technology.” Presented to the Department of Agribusiness Economics, Southern Illinois University, Carbondale, Illinois, April 14, 2005.

Biermacher, J.T., F.M. Epplin, J.B. Solie, B.W. Brorsen, W.R. Raun. “Managing Nitrogen for Winter Wheat Using Site-Specific Optical Sensing.” Selected Paper for Presentation at the Southern Agricultural Economics Association Annual Meeting, Little Rock, Arkansas, February 2-5, 2004.

Biermacher, J.T., F.M. Epplin, and K.R. Keim. “FAIR, PostFAIR, and NoFAIR: A Comparison of Cropping Alternatives for the Southern Great Plains.” Selected Paper for Presentation at the Southern Agricultural Economics Association Annual Meeting, Mobile, Alabama, February 2003.

Extension, Education and Outreach Presentations (45):

Biermacher, J.T., “Agricultural Division Research Programs at the Noble Foundation.” Presented to Robert Egerton-Warburton, Nuffield Scholar, Burneyville, Oklahoma, August 26, 2010.

Biermacher, J.T., “Forage Based Beef Research at the Noble Foundation.” Presented to Kansas State Cooperative Extension Agents, Oswalt, Oklahoma, April 19, 2010.

Biermacher, J.T., “Alternative Strategies for Managing and Marketing Cull Cows.” Presented to Texas Agrilife Extension Agents, Oswalt, Oklahoma, April 18, 2010.

Biermacher, J.T., “Agricultural Division Research Programs at the Noble Foundation.” Presented to Name, New Zealand, Ardmore, Oklahoma, April 26, 2010.

Biermacher, J.T., “Alternative Strategies for Managing and Marketing Cull Cows.” Presented to Members of the Caddo County Cattlemen’s Association, Oswalt, Oklahoma, April 19, 2010.

Biermacher, J.T., “Agricultural Division Research Programs at the Noble Foundation.” Presented to Faculty of the University of Perugia, Italy, Ardmore, Oklahoma, April 14, 2010.

Biermacher, J.T., “Agricultural Division Research Programs at the Noble Foundation.” Presented to Dr. Phil Rolston, AgResearch Limited of New Zealand, Ardmore, Oklahoma, April 9, 2010.

Biermacher, J.T., “Alternative Strategies for Managing and Marketing Cull Cows.” Presented to the Oklahoma Cattlemen’s Association’s Leadership Academy, Oswalt, Oklahoma, April 8, 2010.

Biermacher, J.T., “Alternative Strategies for Managing and Marketing Cull Cows.” Presented to Members of the Louisiana Cattlemen’s Association, Oswalt, Oklahoma, March 31, 2010.

Biermacher, J.T., “Alternative Strategies for Managing and Marketing Cull Cows.” Presented to Faculty and Students of the Texas Christian University Ranch Management Class, Oswalt, Oklahoma, March 30, 2010.

Biermacher, J.T., “Alternative Strategies for Managing and Marketing Cull Cows.” Presented to Board of Directors of the Oklahoma Cattlemen’s Association, Oswalt, Oklahoma, February 25, 2010.

Biermacher, J.T., “Horticulture Research at the Noble Foundation.” Presented to participants of Oklahoma Ag in the Classroom program, Ardmore, Oklahoma, January 22, 2010.

Biermacher, J.T., “Bioenergy Research Programs at the Noble Foundation.” Presented to participants of the Oklahoma Ag in the Classroom program, Ardmore, Oklahoma, January 22, 2010.

Biermacher, J.T., “Economic Potential of Substituting Legumes for Synthetic Sources of Nitrogen in Bermudagrass Stocker Grazing Systems.” Presented to Agriculture Division Staff of the Samuel Roberts Noble Foundation, Inc., Ardmore, Oklahoma, December 4, 2009.

Biermacher, J.T., “Agricultural Research Programs at the Samuel Roberts Noble Foundation.” Presented to selected faculty of the Institute of Botany of the Chinese Academy of Sciences R&D Center of Energy Plants, Ardmore, Oklahoma, November 15, 2009.

Biermacher, J.T., “On Farm Bioenergy Research at the Samuel Roberts Noble Foundation.” Presented to selected faculty of the Institute of Biological, Environmental and Rural Sciences at Aberystwyth University of Wales, Burneyville, OK, November 10, 2009.

Biermacher, J.T., “Alternative Strategies for Marketing Cull Cows.” Presented to members of the Kentucky Cattlemen’s Association, Oswalt, Oklahoma, November 5, 2009.

Biermacher, J.T., R. Reuter, and B.J. Cook. “Receiving Protocol for Fall-Purchased Stocker Cattle at the Noble Foundation.” Presented to selected students and faculty of the Iowa State University, Department of Animal Sciences, Oswalt, Oklahoma, June 29, 2009.

Oswald, D., and **J.T. Biermacher**. “Implications of Proposed Cap-and-Trade Legislation for Landowners.” Selected Paper Presented at the Oklahoma Pecan Growers Association’s Annual Meeting, Oklahoma City, OK, June 1-3, 2009.

Biermacher, J.T., “Ag Research Programs at the Samuel Roberts Noble Foundation.” Presented to members of the Dallas and Fort Worth Ag Club, Ardmore, Oklahoma, May 4, 2009.

Biermacher, J.T., R. Reuter, and B.J. Cook. “Receiving Program for Fall-Purchased Stocker Cattle at the Noble Foundation.” Presented to selected members of the Oklahoma Cattleman’s Leadership Association, Oswalt, Oklahoma, April 23, 2009

Biermacher, J.T., R. Reuter, and B.J. Cook. “Receiving Program for Fall-Purchased Stocker Cattle at the Noble Foundation.” Presented to selected members of the Blaine County Oklahoma Wheat and Cattle Producers Association, Oswalt, Oklahoma, April 16, 2009.

Biermacher, J.T., and H. Aljoe “Agricultural Division Research and Demonstration Programs at the Samuel Roberts Noble Foundation.” Presented to faculty and students of Redlands Community College, Oswalt, Oklahoma, April 14, 2009.

Blanton, J, Jr., and **J.T. Biermacher**. “Agricultural Division Research and Demonstration Programs at the Samuel Roberts Noble Foundation.” Presented to participants of the Louisiana Cattleman’s Association, Oswalt, Oklahoma, April 5, 2009

Biermacher, J.T., R. Reuter, and B.J. Cook. “Receiving Program for Fall-Purchased Stocker Cattle at the Noble Foundation.” Presented to faculty and students of the College of the Ozarks, Oswalt, Oklahoma, March 26, 2009.

Biermacher, J.T., “Economic Potential of Conservation Farming Winter Cereal Forages for Stocker Cattle Grazing in the Rolling Plains.” Invited Paper Presented to the Faculty of the Department of Agricultural Economics at Purdue University, West Lafayette, IN, March 9, 2009.

Biermacher, J.T., C.R. Coffey, B.J. Cook, M.D. Childs, and D. Ford. “Economic Advantage of No-Tilling Winter Forages for Stocker Grazing.” Invited Paper Presented at the Texhoma Farm Show, Wichita Falls, Texas, February 27-28, 2009.

Biermacher, J.T., “Economic Potential of Baby Spinach Followed by Strawberry in a High Tunnel Hoop House System.” Presented to participants of the Oklahoma Agriculture in the Classroom Program, Noble Foundation Sponsored Event, Ardmore, OK, January 23, 2009.

Biermacher, J.T., “Economic Potential of Early Season Tomato Followed by Yellow and Zucchini Squash in a High Tunnel Hoop House System.” Presented to Delegation of Agricultural, Economic and Education Ministers of Azerbaijan, Ardmore, OK, December 12-14, 2008.

Biermacher, J.T., “Carbon Sequestration Programs and their Implications for Landowners.” Presented at the Noble Foundation’s Annually Sponsored Farm Management Education Program, Ardmore, OK, November 24, 2008.

Springer, J.D., R. Reuter, and **J.T. Biermacher**. “Cost of Commingling, Sorting and Marketing Value Added Beef Calves.” Presented to Farmers and Ranchers from Southern Oklahoma and North Texas, Burneyville, OK, November 15, 2008.

Biermacher, J.T. “Value of Conservation Farming Practices in the Winter Forage Grazing Enterprise.” Presented to Texas Agrilife County Extension Agents from the 4th District, Burneyville, OK, September 24, 2008.

Biermacher, J.T. “Value of Conservation Farming Practices in the Winter Forage Grazing Enterprise.” Presented to Texas Agrilife County Extension Agents from the 3rd District, Burneyville, OK, September 23, 2008.

Biermacher, J.T. “Value of Conservation Farming Practices in the Winter Forage Grazing Enterprise.” Presented to Kansas State County Extension Agents, Burneyville, OK, September 15, 2008.

Biermacher, J.T. “Value of Conservation Farming Practices in the Winter Forage Grazing Enterprise.” Presented to the Oklahoma Water and Soils Conservation Association (OWSCA) at the Noble Foundation’s Oswalt Research Ranch, June 20, 2008.

Biermacher, J.T. “Preparing Stocker Cattle for Grazing Research at the Noble Foundation.” Presented to the Public at the Noble Foundation’s Annual Oswalt Research Ranch Field Day, Love County, OK, May, 2008.

Biermacher, J.T. “Preparing Stocker Cattle for Grazing Research at the Noble Foundation.” Presented to North Central Texas County Extension Agents at the Noble Foundation’s Red River Research and Demonstration Farm, Burneyville, OK, April, 2008.

Biermacher, J.T. “Preconditioning Stocker Cattle at the Noble Foundation: Factors that Influence Production and Economics.” Presented to members of the Anderson County Kentucky Cattlemen’s Association, Ardmore, OK, November, 2007.

Biermacher, J.T. “Preconditioning Stocker Cattle at the Noble Foundation: Factors that Influence Production and Economics.” Presented to members of the Eastern Kentucky Cattlemen’s Association, Ardmore, OK, October, 2007.

Biermacher, J.T. “Preconditioning Stocker Cattle at the Noble Foundation: Factors that Influence Production and Economics.” Presented to North-Texas County Extension Agents, Ardmore, OK, September, 2007.

Biermacher, J.T. “Preconditioning Stocker Cattle at the Noble Foundation: Factors Influencing Production and Economics.” Presented to graduate students attending Chiang Mai University of Thailand, Burneyville, Oklahoma, June, 2007.

Biermacher, J.T. “Factors Influencing Production and Economics of Preconditioned Stocker Cattle at the Noble Foundation.” Presented at the Noble Foundation’s Agricultural Division’s Annual Research and Demonstration Farm Field Day, Burneyville, Oklahoma, April, 2007.

Biermacher, J.T. “Opportunities for Employment in Agricultural Sciences.” Presented at a Noble Foundation-Sponsored Educational Seminar for Agricultural and Non-agricultural Educators and School Administrators, Ardmore, OK, March, 2006.

Biermacher, J.T. “Solutions for Better Understanding the Economics and Opportunities in the Noble Foundation Service Area.” Presented to the Board of Trustees of the Samuel Roberts Noble Foundation, Ardmore, Oklahoma, January, 2006.

Biermacher, J.T. “Oklahoma Beef Cattle: An Economic Outlook.” Presented at the Noble Foundation-sponsored Regional Education Seminar for Farmers, Ranchers, Civic Leaders, and Area and County Extension Agents, Mid-America Technology Center, Wayne Payne, Oklahoma, December, 2005.

Biermacher, J.T., and Roger J. Beck. “Economic Assessment of Biotechnology on Production Agriculture in Southwest Illinois.” Presented in Cooperation with the Illinois Farm Outreach Program for Educators, Civic Leaders, the Business Community, and Farm Producers at Wabash College, Carmi, IL, September, 1999.

Research Projects in Progress:

Donnell, J., **J.T. Biermacher**, S. Upson, and D. Miller. “Economic Potential of Hoop House Plasticulture Technology used to in the Production High Value Produce.” Expected completion date, 2011.

Guretzky, J., B. Cook, and **J.T. Biermacher**. “Economic Feasibility of Switchgrass as a Source of Biomass for Biofuels Production in the Southern Plains.” Five-year, on-farm (RCBD) experiment with expected completion in 2011.

Ward, C.E., K. Rapier, Billy Cook., and **J.T. Biermacher**. “Best Management Strategies for Managing and Marketing Cull Cows.” Three year collaborative study between the Noble Foundation and the Department of Agricultural Economics at Oklahoma State University. Expected Completion date of 2010.

Cook, B.J., J. Guretzky, and **J.T. Biermacher**. “Agronomic and Economic Feasibility Stocker Cattle Grazing Perennial Switchgrass.” Five-year, on-farm (RCD) grazing experiment with expected completion date of 2010.

Guretzky, J., K. Gee, R. Reuter, B. Cook, and **J.T. Biermacher**. “Ecological and Economical Benefits and Costs of Long-Term Improvements to Native Range Ecosystems in the Southern Plains.” Ten-year, large-scale study beginning January 1, 2008.

Biermacher, J.T., C. Rohla, and D. Miller. “Best Practice Irrigation Methods for Improved Variety Pecan Orchards.” Five-year experiment with expected completion in 2011.

Biermacher, J.T., and S. King. “Is the Farm to School Program Sensible?”

Biermacher, J.T., M.A. Cawley, and J. Wallace. “Regional Economic Impacts of the Samuel Roberts Noble Foundation on the Economy of South-Central Oklahoma.”

Grants:

Guretzky, J., **J.T. Biermacher**, and B.J. Cook. 2008. "Agronomics and Economics of Switchgrass Production in the Southern Plains." Five-year award in the amount of \$890,000. Ceres, Inc., Thousand Oaks, California. \$890,000. Funded. Credit 33%.

Cook, B.J., **J.T. Biermacher**, and J. A. Guretzky. 2008. "Large Scale Establishment of Switchgrass for Biomass and Biofuels Research in the Oklahoma Panhandle." Oklahoma Bioenergy Center, Oklahoma City, Oklahoma. \$1,700,000. Funded. Credit 33%.

Cook, B.J., **J.T. Biermacher**, and J. Guretzky. 2008. "Economic Feasibility of Grazing Switchgrass." Oklahoma Bioenergy Center, Oklahoma City, Oklahoma. \$400,000. Funded. Credit 33%.

Guretzky, J., **J.T. Biermacher**, and B.J. Cook. 2009. "Agronomic and Economic Evaluations of Producing Alternative Biomass Feedstock Sources in the Southern Plains." Oklahoma Bioenergy Center, Oklahoma City. \$140,000. Funded. Credit 33%.

Blanton, JR, J. Mosali, **J.T. Biermacher**, J. Guretzky, and B.J. Cook. 2009. "Utilization and Value of Switchgrass in a Dual Purpose Stocker Cattle and Bioenergy System Under Continuous and Rotational Grazing on Stocker Performance and Forage Characteristics." Oklahoma Bioenergy Center, Oklahoma City, Oklahoma. \$194,647. Funded. Credit 20%.

Guretzky, J.A., J. Mosali, **J.T. Biermacher**, K. Gee, and J. Blanton. 2009. "Switchgrass and Native Rangeland Management for Grazing and Bioenergy." USDA-NRCS Conservation Innovation Grant. \$535,611. Funded. Credit 20%.

Hunhke, R., **J.T. Biermacher**, J. Blanton, Jr., M. Buser, F.M. Epplin, C. Jones, G. Kakani, J. Mosali, and J. Warren. 2009. "Sustainable Feedstock Production Supply Systems to Support Cellulosic Biorefinery Industries." USDA Biomass Research and Development Initiative Grant. \$4,200,000. Funded. Credit 5%.

Stamper, K., **J.T. Biermacher**, J.K. Rogers, C. Godsy, and B. Adam. 2010. "High Performance Fertilizers for Sustainable Agriculture in Oklahoma." Economic Development Generating Excellence (EDGE) Grant. \$800,000. Submitted.

Reports Reviewed:

The National Academies of Science report, "Toward Sustainable Agricultural Systems in the 21st Century." Report published by the National Research Council's Board on Agriculture and Natural Resources, 2010.

Manuscript/Journal Article Reviews (24):

Agronomy Journal (1), American Journal of Agricultural Economics (3), Biomass and Bioenergy (2), Journal of Agricultural and Applied Economics (5), Journal of Agricultural and Resource

Economics (1), Journal of Applied Engineering in Agriculture (1), Journal of Food Distribution Research (5), National Research Council (1) and Precision Agriculture (5).

Administrative Service:

Accounting Manager, Agriculture Research Programs, The Samuel Roberts Noble Foundation, Inc., 2005-present.

Service:

Noble Foundation, Agricultural Division's Graduate Student Assistantship Process and Selection Committee, 2010.

Agricultural Economist, Scientific Team, Oklahoma National Guard's Special Projects Program in Azerbaijan, 2009-present.

Noble Foundation, Agriculture Division's Five Year Strategic Planning Committee, 2008-present.

International Farm Management Association's (IFMA), Scientific/Research Committee, 2007-present.

Noble Foundation, Agricultural Division's Research Program Process, Selection and Approval Committee, 2005-present.

Noble Foundation Library Committee, 2005-present.

Noble Foundation Summer Scholar and Internship Search Committee, 2006-present

Co-Leader, Policy Development and Analysis Workgroup, Feedstocks Workshop of the Sun Grant Initiative, South Central Region, Tulsa, OK, October 1-3, 2007.

Little league baseball, coach, Madill, OK, 2006 & 2007.

President of the Department of Agricultural Economics Graduate Student Association, Oklahoma State University, 2003.

President of the Department of Agribusiness Economics Graduate Student Association, Southern Illinois University, 1998.

Honors and Awards:

Oklahoma State University, Sitlington Scholarship, 2000-2003.

Recipient of the Illinois Wheat Association's Annual Scholarship for Academic Excellence in the Area of International Trade and Marketing, 1996.

Interviews (10):

Beef Magazine (1), Beef Networks Media (2), Feed Lot Magazine (1), Feedstuffs Magazine (1), Insight Magazine (Noble Foundation Press) (3), Legacy (Noble Foundation Press) (2).

Graduate Student Advisory (3):

Zakou Amadou, M.S., Department of Agricultural Economics, Oklahoma State University, Thesis committee, 2007-2009.

Emmanuel Tumusiime, Ph.D. student, Department of Agricultural Economics, Oklahoma State University, Dissertation committee, 2008-present.

Zakou Amadou, Ph.D. student, Department of Agricultural Economics, Oklahoma State University, Dissertation committee, 2009-present.

Lloyd Noble Summer Scholars Advisory (10):

Hanbit Chung (Oklahoma State University, 2006); Kristen Greer (Texas A&M University, 2006); Tyler Van Winkle (Kansas State University, 2006); Chris Branch (Oklahoma State University, 2007), Mariah, Johnson (Oklahoma State University, 2007); Brandon Grooms (Texas A&M University, 2008); Brook Bradbury (Kansas State University, 2009); Jessica Robinette (University of Arkansas, 2010); Alex Yauk (Oklahoma State University, 2010), Wyatt Swinford (Oklahoma State University, 2010).

Membership of Professional Organizations (10):

American Agricultural Economics Association, Food Distribution Research Society, International Farm Management Association, Livestock Marketing Information Council (LMIC), National Cattleman's Beef Association (NCBA), Oklahoma Cattleman's Association (OCA), American Society of Range Management, Southern Agricultural Economics Association, Western Agricultural Economics Association, and Western Regional Science Association.

References:

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