

**B. WADE BRORSEN**  
Regents Professor and A.J. & Susan Jacques Chair  
Oklahoma State University  
Department of Agricultural Economics

**EDUCATION:**

*1983* Ph.D., Agricultural Economics, Texas A&M University  
*1990* M.S., Statistics, University of Wisconsin-Madison  
*1980* M.S., Agricultural Economics, Oklahoma State University  
*1979* B.S., Agricultural Economics, Oklahoma State University

**EXPERIENCE:**

*8/91-Present* Oklahoma State University, Department of Agricultural Economics, Associate Professor, 8/91-6/92; Professor, 7/92; Regents Professor, 7/96 – present; Jean & Patsy Neustadt Chair, 2/01-6/11; A.J. & Susan Jacques Chair 8/11-present.

*6/83-8/91* Purdue University, Department of Agricultural Economics, Assistant Professor, 6/83-6/88, Associate Professor, 7/88-8/91.

*9/89-5/90* Visiting Associate Professor, Department of Agricultural Economics, University of Wisconsin at Madison.

*2/83-5/83* Research Associate, Department of Agricultural Economics, Texas A&M University.

*9/80-1/83* Graduate Research Assistant, Department of Agricultural Economics, Texas A&M University.

*6/79-7/80* Graduate Research Assistant, Department of Agricultural Economics, Oklahoma State University.

**ATTACHMENTS:**

**1. CURRENT DUTIES WITH APPOINTMENT PERCENTAGES**

Research: 83%

Teaching: 17%

- AGEC 5101 Research Methodology
- AGEC 6213, Advanced Econometrics
- AGEC 6403, Advanced Production

## 2. JOURNAL ARTICLES

1. Isbell, B.J., A.M. McKenzie, and B.W. Brorsen. 2019. "The Cost of Forward Contracting in the CIF NOLA Export Bid Market." *Journal of Agricultural and Applied Economics*. Forthcoming.
2. Ouedraogo, F.B., B.W. Brorsen, J.T. Biermacher, and C.T. Rohla. 2019. "Alternative Methods of Planting Pecan Trees." *HortTechnology*. Forthcoming.
3. Cho, W., B.W. Brorsen, J.T. Biermacher, and J.K. Rogers. 2019. "Rising Plate Meter Calibrations for Forage Mass of Winter Forages: Wheat and Rye." *Agricultural & Environmental Letters*. Forthcoming.
4. Hounnou, L., B.W. Brorsen, J.T. Biermacher, and C.T. Rohla. 2019. "Foliar Applied Zinc and the Performance of Pecan Trees." *Journal of Plant Nutrition*. Forthcoming.
5. Cowley, C.A., B.W. Brorsen, and D.W. Hamilton. 2019. "Economic Feasibility of Anaerobic Digestion with Swine Operations." *Journal of Agricultural and Applied Economics*. Forthcoming.
6. Biedenbach, A., B.W. Brorsen, J.T. Biermacher, and C.T. Rohla. 2019. "Effect of Irrigation Method on Pecan Nut Quality and Growth of Young Trees." *HortTechnology*. Forthcoming.
7. Ates, A.M., J.L. Lusk, and B.W. Brorsen. 2019. "Forecasting Meat Prices Using Consumer Expectations from the Food Demand Survey (FoodS)." *Journal of Food Distribution Research*. Forthcoming.
8. Park, E., B.W. Brorsen, and A. Harri. 2019. "Using Bayesian Kriging for Spatial Smoothing in Crop Insurance Rating." *American Journal of Agricultural Economics*. 101(1):330-351.
9. Kim, S.W., J.L. Lusk, and B.W. Brorsen. 2018. "'Look at Me, I'm Buying Organic': The Effects of Social Pressure on Organic Food Purchases." *Journal of Agricultural and Resource Economics*. 43(3):364-387.
10. Neill, C.L., R.B. Holcomb, and B.W. Brorsen. 2018. "Current Market Conditions for Veterinary Services in the U.S." *Applied Economics* 50:6501-6511.
11. Seok, J., B.W. Brorsen, and B. Niyizibi. 2018. "Modeling Calendar Spread Options." *Agricultural Finance Review* 78(5):551-570.
12. Cowley, C., and B.W. Brorsen. 2018. "Anaerobic Digester Production and Cost Functions." *Ecological Economics*. 152:347-357.
13. Brorsen, B.W., J.R. Fain, and J.G. Maples. 2018. "Alternative Policy Responses to Increased Use of Formula Pricing." *Journal of Agricultural and Food Industrial Organization*. 16(1): 1. (Invited article).
14. Mitchell, J.L., D.S. Peel, and B.W. Brorsen. 2018. "Price Determinants of Bred Cows." *Journal of Agricultural and Applied Economics*. 50(1):64-80.
15. Cowley, C., and B.W. Brorsen. 2018. "The 'Hurdles' to Greater Adoption of Anaerobic Digesters." *Agricultural and Resource Economics Review*. 47(1):132-157.

16. Ouedraogo, F., and B.W. Brorsen. 2018. "Hierarchical Bayesian Estimation of a Stochastic Plateau Response Function: Determining Optimal Levels of Nitrogen Fertilization." *Canadian Journal of Agricultural Economics*. 66(1):87-102.
17. Kim, S.W., and B.W. Brorsen. 2018. "Optimal Forecast Evaluation: Fertilizer Prices." *Applied Economics Letters*. 25(4):229-233.
18. Kim, S.W., B.W. Brorsen, and J.L. Lusk. 2018. "Not Everybody Prefers Organic Food: Unobserved Heterogeneity in U.S. Consumers' Preference for Organic Apple and Milk." *Applied Economics Letters*. 25:9-14.
19. McFadden, B.R., B.W. Brorsen, and W.R. Raun. 2018. "Nitrogen Fertilizer Recommendations Based on Plant Sensing and Bayesian Updating." *Precision Agriculture*. 19:79-92.
20. Thompson, N. M., B.W. Brorsen, E.A. DeVuyst, and J.L. Lusk. 2017. "Genetic Testing to Signal Quality in Beef Cattle: Bayesian Methods for Optimal Sample Size." *American Journal of Agricultural Economics* 99:1287-1306.
21. Lee, Y., and B.W. Brorsen. 2017. "Permanent Breaks and Temporary Shocks in a Time Series." *Computational Economics*. 49:1213-1225.
22. Kim, S.W., and B.W. Brorsen. 2017. "Forecasting Urea Prices." *Applied Economics*. 49:4970-4981.
23. Neill, C., R. Holcomb, and B.W. Brorsen. 2017. "Starting on the Right Foot: Does School Choice Affect Veterinarian Starting Salaries?" *Journal of Agricultural and Applied Economics*. 49:120-138.
24. Milacek, T.T., and B.W. Brorsen. 2017. "Trading Based on Knowing the WASDE Report in Advance." *Journal of Agricultural and Applied Economics*. 49(3):400-415.
25. Brorsen, B.W. 2017. "2016 WAEA Presidential Address: Comments on Agricultural Economics Research." *Journal of Agricultural and Resource Economics*. 42:1-9.
26. Hu, Z., and B.W. Brorsen. 2017. "Spatial Price Efficiency in the Urea Market." *Agribusiness*. 33:98-115.
27. Lee, Y., and B. W. Brorsen. 2017. "Permanent Shocks and Forecasting with Moving Averages." *Applied Economics*. 49(12):1213-1225.
28. Kim, S.W., B.S. Yoon, and B.W. Brorsen. 2016. "Forecasting Performance of Times Series Models for Korean Ginseng." *Korean Journal of Agricultural Management and Policy*. 43(2):287-304, (In Korean).
29. Ouedraogo, F.B., B.W. Brorsen, D.B. Arnall. 2016. "Changing Optimal Nitrogen Levels in Cotton." *The Journal of Cotton Science*. 20:18-25.
30. Maples, J., B.W. Brorsen, and J.T. Biermacher. 2016. "The Rainfall Index Annual Forage Pilot Program as a Risk Management Tool for Cool Season Forage." *Journal of Agricultural and Applied Economics*. 48(1):29-51.

31. Thompson, N.M., E.A. DeVuyst, B.W. Brorsen, and J.L. Lusk. 2016. "Using Genetic Testing to Improve Fed Cattle Marketing Decisions." *Journal of Agricultural and Resource Economics* 41:286-306.
32. Boyer, C.N., B.W. Brorsen, and J.R. Fain. 2015. "Private Value Auction versus Posted-Price Selling: An Agent-Based Model Approach." *Intelligent Systems in Accounting, Finance, and Management*. 22(4):249-262.
33. Kim, S., B.W. Brorsen, B.S. Yoon. 2015. "Cross Hedging Winter Canola." *Journal of Agricultural and Applied Economics*. 47:462-481.
34. Brorsen, B.W., D. Doye, K.B. Neal. 2015. "Agricultural Land and the Small Parcel Premium Puzzle." *Land Economics*. 91:572-585.
35. Thompson, N.M., E.A. DeVuyst, B.W. Brorsen, and J.L. Lusk. 2015. "Yield and Quality Grade Outcomes as Affected by Molecular Breeding Values for Commercial Beef Cattle." *Journal of Animal Science* 93:1-11.
36. Boyer, C.N., B.W. Brorsen, and E. Tumusiime. 2015. "Modeling Skewness with the Linear Stochastic Plateau Model to Determine Optimal Nitrogen Rates." *Agricultural Economics*. 46: 1-10.
37. Tumusiime, E., B.W. Brorsen, and J.D. Vitale. 2014. "Vertical Integration in West Africa's Cotton Industry: Are Parastatals a Second Best Solution?" *Agricultural Economics*. 45(November):129-143.
38. Thompson, N.M., E.A. DeVuyst, B.W. Brorsen, and J.L. Lusk. 2014. "Value of Genetic Information for Management and Selection of Feedlot Cattle." *Journal of Agricultural and Resource Economics*. 39:139-155.
39. Aravindhakshan, S., and B.W. Brorsen. 2014. "Identifying Jumps and Systematic Risks in Commodity Futures Markets." *Review of Futures Markets*. 21(3): Article 3.
40. Boyer, C.N., and B.W. Brorsen. 2014. "Implications of a Reserve Price in an Agent-Based Common Value Auction." *Computational Economics*. 43:33-51.
41. Boyer, C.N., B.W. Brorsen, and T. Zhang. 2014. "Common-Value Auction versus Posted Price Selling: An Agent-Based Model Approach." *Journal of Economic Interaction and Coordination*. 9:129-149.
42. Boyer, C.N., and B.W. Brorsen. 2013. "Changes in Beef Packers' Market Power from the Livestock Mandatory Price Reporting Act: An Agent-Based Auction." *American Journal of Agricultural Economics*. 95:859-876.
43. Brorsen, B.W., and N. Lansford. 2013. "Sales Tax Collections in Nonmetropolitan Communities." *Public Finance Review*. 41:488-502.
44. Wu, Yu, B.W. Brorsen, and P. Ren. 2013. "Intraday Patterns in Chinese Futures Markets." *Review of Futures Markets*. 21:173-193.

45. Brorsen, B.W., and T. Kim. 2013. "Data Aggregation in Stochastic Frontier Models: The Closed Skew Normal Distribution." *Journal of Productivity Analysis*. 39:27-34.
46. Shah, S., and B.W. Brorsen. 2013. "Are Liquidity Costs Higher in Futures Options Markets or in Options Markets?" *Applied Financial Economics*. 23:701-708.
47. Roberts, D.C., B.W. Brorsen, J.B. Solie, and W.R. Raun. 2013. "Is Data Needed from Every Field to Determine In-Season Precision Nitrogen Recommendations in Winter Wheat?" *Precision Agriculture*. 14:245-269.
48. Lee, B.-H., P. Kenkel, and B.W. Brorsen. 2013. "Pre-harvest Forecasting of County Wheat Yield and Wheat Quality Using Weather Information." *Agricultural and Forest Meteorology*. 168(January):26-35.
49. Zakrzewicz, C., B.W. Brorsen, and B.C. Briggeman. 2013. "Can the Federal Reserve Bank's Survey of Agricultural Credit Conditions Forecast Land Values?" *Journal of Agricultural and Applied Economics*. 45:159-170.
50. Park, S.C., B.W. Brorsen, A.L. Stoecker, and J.A. Hattey. 2012. "Forage Response to Swine Effluent: A Cox Non-nested Test of Alternative Functional Forms Using a Fast Double Bootstrap." *Journal of Agricultural and Applied Economics*. 22(4):593-606.
51. Yoon, B.S., and B.W. Brorsen. 2012. "Characteristics and Performance of Commodity Indexes." *Korean Journal of Agricultural Management and Policy*. 39(4):521-539.
52. Shah, S., B.W. Brorsen, and K.B. Anderson. 2012. "Effective Bid-Ask Spreads in Futures versus Futures Options." *Journal of Agricultural and Resource Economics*. 37(3):455-468.
53. Cordero, M., B.W. Brorsen, and D. McFarlane. 2012. "Circadian and Circannual Rhythms of Cortisol, ACTH and  $\alpha$ -Melanocyte-Stimulating Hormone in Healthy Horses." *Domestic Animal Endocrinology*. 43(4):317-324.
54. Boyer, C.N., B.W. Brorsen, W.R. Raun, D.B. Arnall, and J.B. Solie. 2012. "Efficiency of Pre-plant, Topdress, and Variable Rate Application of Nitrogen Application in Winter Wheat." *Journal of Plant Nutrition* 35:1776-1790.
55. Kim, T., P. Kenkel, and B.W. Brorsen. 2012. "Forecasting Hourly Peak Call Volume for a Rural Electric Cooperative Call Center." *Journal of Forecasting*. 31:314-329.
56. Brorsen, B.W., and F.G.C. Richter. 2012. "Experimental Designs for Estimating Plateau-Type Production Functions and Economically Optimal Input Levels." *Journal of Productivity Analysis* 38:45-52.
57. Zakrzewicz, C., B.W. Brorsen, and B.C. Briggeman. 2012. "Comparison of Alternative Sources of Farmland Values." *Agricultural Finance Review*. 72(1):68-86.
58. Lee, Y., C.E. Ward, and B.W. Brorsen. 2012. "Procurement Price Relationships for Fed Cattle and Hogs: Importance of the Cash Market in Price Discovery." *Agribusiness*. 28(2):135-147.
59. Kim, H.S., and B.W. Brorsen. 2012. "Can Real Option Values Explain Apparent Storage at a Loss?" *Applied Economics*. 44(16):2081-2090.

60. Zhang, T., and B.W. Brorsen. 2011. "Oligopoly Firms with Quantity-Price Strategic Decisions." *Journal of Economic Interaction and Coordination*. 6(2):157-170.
61. Ji, D., and B.W. Brorsen. 2011. "A Recombining Lattice Option Pricing Model That Relaxes the Assumption of Lognormality." *Review of Derivatives Research*. 14(3):349-367.
62. Shah, S., and B.W. Brorsen. 2011. "Electronic vs. Open Outcry: Side-by-Side Trading of KCBT Wheat Futures." *Journal of Agricultural and Resource Economics*. 36(1):48-62.
63. McFarlane, D., M.R. Paradis, D. Zimmel, B. Sykes, B.W. Brorsen, A. Sanchez, and K. Vainio. 2011. "The Effect of Latitude of Residence, Breed and Pituitary Dysfunction on Seasonal ACTH and  $\alpha$ -MSH Plasma Concentration." *Journal of Veterinary Internal Medicine*. 25(4):872-881.
64. Tumusiime, E., B.W. Brorsen, J. Mosali, J. Johnson, J. Locke, and J.T. Biermacher. 2011. "Determining Optimal Levels of Nitrogen Fertilizer Using Random Parameter Models." *Journal of Agricultural and Applied Economics*. 43(4):541-552.
65. Roberts, D.C., B.W. Brorsen, R.K. Taylor, J.B. Solie, and W.R. Raun. 2011. "Replicability of Nitrogen Recommendations from Ramped Calibration Strips in Winter Wheat." *Precision Agriculture*. 12:653-665.
66. Roberts, D.C., B.W. Brorsen, J.B. Solie, and W.R. Raun. 2011. "The Effect of Parameter Uncertainty on Whole-Field Nitrogen Recommendations from Nitrogen-Rich Strips and Ramped Strips in Winter Wheat." *Agricultural Systems*. 104:307-314.
67. Boyer, C.N., B.W. Brorsen, J.B. Solie, and W.R. Raun. 2011. "Profitability of Variable Rate Nitrogen Application in Wheat Production." *Precision Agriculture*. 12(4):473-487.
68. Tostão, E., C. Chung, and B.W. Brorsen. 2011. "Integrating Auction Theory with Traditional Measures of Market Power." *Agribusiness*. 27:162-178.
69. Wu, Y., T. Krehbiel, and B.W. Brorsen. 2011. "Impacts of Stock Splits on Transaction Costs under Different Tick Size Regimes." *Applied Economics Letters*. 18:729-733.
70. Tumusiime, E., B.W. Brorsen, J. Mosali, and J.T. Biermacher. 2011. "How Much Does Considering the Cost of Lime Affect the Recommended Level of Nitrogen?" *Agronomy Journal*. 103:404-413.
71. Gallardo, R.K., B.W. Brorsen, and J.L. Lusk. 2010. "Prediction Markets: An Experimental Approach to Forecasting Cattle on Feed." *Agricultural Finance Review*. 70:414-426.
72. Adam, B.D., M. Siaplay, P. Flinn, B.W. Brorsen, and T. Phillips. 2010. "Factors Influencing Economic Profitability of Sampling-Based Integrated Pest Management of Wheat in Country Elevators." *Journal of Stored Products Research* 46:186-196.
73. Zhang, T., and B.W. Brorsen. 2010. "The Long Run and Short Run Impact of Captive Supplies on the Spot Market Price: An Agent-Based Artificial Market." *American Journal of Agricultural Economics*. 92:1181-1194.

74. Kim, H.S., B.W. Brorsen, and K.B. Anderson. 2010. "Profit Margin Hedging." *American Journal of Agricultural Economics* 92:638-653.
75. Hatchett, R.B., B.W. Brorsen, and K.B. Anderson. 2010. "Optimal Length of Moving Average to Forecast Futures Basis." *Journal of Agricultural and Resource Economics* 35:18-33.
76. Harri, A., B.W. Brorsen, A. Muhammad, and J.D. Anderson. 2010. "Estimating a Demand System with Seasonally Differenced Data." *Journal of Agricultural and Applied Economics*. 42:321-335.
77. Taylor, K.W., F.M. Epplin, B.W. Brorsen, B.G. Fieser, and G.W. Horn. 2010. "Optimal Grazing Termination Date for Dual-Purpose Winter Wheat Production." *Journal of Agricultural and Applied Economics*. 42:87-103. (Outstanding Article Award)
78. Harri, A., and B.W. Brorsen. 2009. "The Overlapping Data Problem." *Quantitative and Qualitative Analysis in the Social Sciences*. 3(3):78-115.
79. Ji, D., and B.W. Brorsen. 2009. "A Relaxed Lattice Option Pricing Model: Implied Skewness and Kurtosis." *Agricultural Finance Review* 69:268-283.
80. Mutondo, J.E., B.W. Brorsen, and S.R. Henneberry. 2009. "Welfare Impacts of BSE-Driven Trade Bans." *Agricultural and Resource Economics Review* 38(December):324-329.
81. Henneberry, S.R., J.E. Mutondo, and B.W. Brorsen. 2009. "Global Welfare Impacts of U.S. Meat Promotion Activities." *Agricultural and Resource Economics Review* 38(December):418-430.
82. Zhang, T., and B.W. Brorsen. 2009. "Particle Swarm Optimization Algorithm for Agent-Based Artificial Markets." *Computational Economics*. 34:339-417.
83. Guiling, P., B.W. Brorsen, and D. Doye. 2009. "Effects of Urban Proximity on Agricultural Land Values." *Land Economics*.85:252-264.
84. Biermacher, J., B.W. Brorsen, F.M. Epplin, W.R. Raun, and J.B. Solie. 2009. "The Potential for Precision Agriculture Based on Plant Sensing." *Agricultural Economics*. 40:397-407.
85. Brorsen, B.W. 2009. "Research: Are We Valuing the Right Stuff?" *Journal of Agricultural and Resource Economics*, 34:1-10. (Keynote Address)
86. Guiling, P., D. Doye, and B.W. Brorsen. 2009. "Agricultural, Recreational, and Urban Influences on Agricultural Land Prices." *Agricultural Finance Review*. 69:196-205.
87. Biermacher, J.T., F. Epplin, J. Solie, W.R. Raun, B.W. Brorsen, and M.L. Stone. 2009. "Economic Feasibility of Site Specific Optical Sensing for Managing Nitrogen Fertilizer for Growing Wheat." *Precision Agriculture* 10(3):213-230.
88. Guiling, P., D. Doye, and B.W. Brorsen. 2009. "Why Has the Price of Pasture Increased Relative to the Price of Cropland?" *Journal of American Society of Farm Managers and Rural Appraisers*, 73:99-111.
89. Klumpp, J.M., B.W. Brorsen, and K.B. Anderson. 2008. "Market Advisory Service Recommendations and Wheat Producer's Selling Decisions." *Canadian Journal of Agricultural Economics*. 56:117-128.

90. Tembo, G., B.W. Brorsen, F.M. Epplin, and E. Tostão. 2008. "Crop Input Response Functions with Stochastic Plateaus." *American Journal of Agricultural Economics*. 90:424-434.
91. Cunningham, L.T. III, B.W. Brorsen, K.B. Anderson, and E. Tostão. 2008. "Gender Differences in Marketing Styles." *Agricultural Economics*. 38:1-7.
92. Klumpp, J.M., B.W. Brorsen, and K.B. Anderson. 2007. "Producers' Preferences for Round Number Prices." *Agricultural Finance Review*. 67:377-385.
93. Hamm, L., B.W. Brorsen, and M. Hagan. 2007. "Comparison of Stochastic Global Optimization Methods to Estimate Neural Network Weights." *Neural Processing Letters*. 26:145-158.
94. Klumpp, J.M., B.W. Brorsen, and K.B. Anderson. 2007. "Returns to Storage: Does Aggregation Matter?" *Journal of Agricultural and Applied Economics*. 39(December):571-579.
95. Cunningham, L.T. III, B.W. Brorsen, K.B. Anderson. 2007. "Cash Marketing Styles and Performance Persistence." *American Journal of Agricultural Economics*. 89:624-636.
96. Kaitibie, S., W.E. Nganje, B.W. Brorsen, and F.M. Epplin, 2007. "A Cox Parametric Bootstrap Test of the von Liebig Hypothesis." *Canadian Journal of Agricultural Economics*. 55:15-25.
97. Biermacher, J., F.M. Epplin, B.W. Brorsen, J.B. Solie, and W.R. Raun, 2006. "Maximum Value of a Precise Nitrogen Application System for Wheat" *Precision Agriculture*. 7-3:193-204.
98. Richter, F.G.C., and B.W. Brorsen, 2006. "Aggregate vs. Disaggregate Data in the Measurement of School Quality." *Journal of Productivity Analysis*. 25:277-287.
99. Tostão, E., and B.W. Brorsen, 2005. "Spatial Price Efficiency in Mozambique's Post-Reform Maize Markets." *Agricultural Economics*. 33:205-214.
100. Anderson, K.B., and B.W. Brorsen, 2005. "Marketing Performance of Oklahoma Farmers." *American Journal of Agricultural Economics* 87:1265-1270. (Proceedings issue)
101. Yoon, B.S., and B.W. Brorsen, 2005. "Can Multiyear Rollover Hedging Increase Mean Returns?" *Journal of Agricultural and Applied Economics*. 37:65-78.
102. Buguk, C., and B. Wade Brorsen, 2005. "Is a Futures Market Viable in Turkey? The Case of a Cotton Futures Market." *Journal of International Food and Agribusiness Marketing*. 17:135-150.
103. Norwood, F.B., J.L. Lusk, and B.W. Brorsen, 2004. "Forecasting Limited Dependent Variables: Better Statistics for Better Steaks." *Journal of Agricultural and Resource Economics*. 29:404-419. (Outstanding Published Research Award)
104. Buguk, C., and B.W. Brorsen, 2004. "Turkey's Wheat Exchanges." *Journal of International Food and Agribusiness Marketing*. 16:53-69.
105. Kidd, W. V., and B. W. Brorsen, 2004. "Why Have the Returns to Technical Analysis Decreased?" *Journal of Economics and Business*. 56:159-176.
106. Harri, A., and B.W. Brorsen, 2004. "Performance Persistence of Hedge Funds." *Applied Financial Economics*. 14:131-142.



107. Kaitibie, S., F.M. Epplin, B. W. Brorsen, G.W. Horn, E.G. Kaiser, 2003. "Optimal Stocking Density for Dual-Purpose Winter Wheat Production." *Journal of Agricultural and Applied Economics*. 35:29-38.
108. Buguk, C., and B. Wade Brorsen, 2003. "Testing Weak-Form Market Efficiency: Evidence from the Istanbul Stock Exchange." *International Review of Financial Analysis*. 12:579-590.
109. Richter, F.G-C., Pebe Diaz, E.F., B.W. Brorsen and K. Currier, 2003. "Using Both Sociological and Economic Incentives to Reduce Moral Hazard." *Journal of Agricultural and Resource Economics*. 28:364-373.
110. Brorsen, B. W., T. Lehenbauer, D. Ji, and J. Connor, 2002. "Economic Impacts of Banning Subtherapeutic Use of Antibiotics in Swine Production." *Journal of Agricultural and Applied Economics*, 34:489-500.
111. Sivaraman, E., C.P. Lyford, and B.W. Brorsen, 2002. "A General Framework for Grain Blending and Segregation." *Journal of Agribusiness*, 20:155-161.
112. Yoon, B.S., and B.W. Brorsen, 2002. "Market Inversion in Commodity Futures Prices." *Journal of Agricultural and Applied Economics*, 34:459-476.
113. Dameus, A., F.G.-C. Richter, B. W. Brorsen and K. P. Sukhdial, 2002. "AIDS versus the Rotterdam Demand Model: A Cox Test with Parametric Bootstrap." *Journal of Agricultural and Resource Economics*, 27:335-347.
114. Yoon, B.S., B.W. Brorsen, and C.P. Lyford, 2002. "Value of Increasing Kernel Uniformity." *Journal of Agricultural and Resource Economics*, 27:481-494.
115. Jacques, C., and B. W. Brorsen, 2002. "The Relationship between Student Achievement Test Scores and Where Schools Spend Their Money." *Applied Economics Letters*, 9:997-1002.
116. Pebe Diaz, E.F., B.W. Brorsen, K.B. Anderson, F.G.C. Richter, and P. Kenkel, 2002. "The Effect of Rounding on the Probability Distribution of Regrading in the U. S. Peanut Industry." *Journal of Agribusiness*, 20:103-116.
117. Brorsen, B.W., and J.T. Townsend, 2002. "Performance Persistence for Managed Futures." *Journal of Alternative Investments*, 4:57-61.
118. Dameus, A., D. Tilley, and W. Brorsen, 2001. "Caribbean Demand of U.S. and Rest-of-the World Starchy Food (Wheat, Rice, Corn, and Fresh Potatoes): A Restricted Source Differentiated Almost Ideal Demand System." *Lecturas de Economia*, 55 :141-160.
119. Brorsen, B.W., and N.F. Fofana, 2001. "Success and Failure of Agricultural Futures Contracts." *Journal of Agribusiness*, 19:129-145.
120. Brorsen, B.W., N. Coulibaly, F. G.-C. Richter, and D. V. Bailey, 2001. "Feeder Cattle Price Slides." *Journal of Agricultural and Resource Economics*, 26:291-308.
121. Fofana, N.F. and B.W. Brorsen, 2001. "GARCH Option Pricing with Implied Volatility." *Applied Economics Letters*, 8:335-340.

122. Pebe Diaz, E.F., B.W. Brorsen, K.B. Anderson, and Phil Kenkel, 2001. "Effects of Overweight Samples and Rounding of Grade Percentages on Peanut Grades and Prices." *Peanut Science*, 28:9-12.
123. Richter, F. G.-C., and B.W. Brorsen, 2000. "Estimating Fees for Managed Futures: A Continuous-Time Model with a Knockout Feature." *Applied Mathematical Finance*, 7:115-125.
124. Jacques, C., B.W. Brorsen, and F. G.-C. Richter, 2000. "Consolidating Rural School Districts: Potential Savings and Effects on Student Achievement." *Journal of Agricultural and Applied Economics* 32:573-583.
125. Adam, B.D., Betts, S., and B. W. Brorsen, 2000. "Effects of Reduced Government Deficiency Payments on Post-Harvest Wheat Marketing Strategies." *Journal of Futures Markets*, 20:243-263.
126. Townsend, J.P., and B.W. Brorsen, 2000. "The Cost of Forward Contracting Hard Red Winter Wheat." *Journal of Agricultural and Applied Economics*, 32:89-94.
127. Arias, J. S., B. W. Brorsen, and A. Harri, 2000. "Optimal Hedging under Nonlinear Borrowing Cost, Progressive Tax Rates, and Liquidity Restraints." *Journal of Futures Markets*, 20:375-396.
128. Hamm, L., and B. W. Brorsen, 2000. "Trading Futures Markets Based on Signals from a Neural Network." *Applied Economics Letters*, 7:137-140.
129. Coulibaly, N., and B.W. Brorsen, 1999. "Explaining the Differences between Two Previous Meat Generic Advertising Studies." *Agribusiness*, 15:501-515.
130. Brorsen, B. W. and K. Anderson, 1999. "Agricultural Economics Research and Extension Marketing Programs: How Well Are They Integrated?" *Journal of Agribusiness*, 17:135-148.
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279. Lukac, Louis P. and B. Wade Brorsen, 1987. "How to Test Profitability of Technical Trading Systems." *Futures*, October, pp. 72-74.
280. Irwin, Scott H. and B. Wade Brorsen, 1985. "Public Futures Funds: Net Returns and Portfolio Effects." *Futures*, October, pp. 80-84.
281. Irwin, Scott H. and B. Wade Brorsen, 1985. "Public Futures Funds: A Better Alternative?" *Futures*, September, pp. 48-50.
282. Irwin, Scott H. and B. Wade Brorsen, 1985. "Seasonal Price Indexes for Indiana Commodities." EC-627, Cooperative Extension Service, Purdue University, January, 4 pages.
283. Brorsen, B. Wade, Warren R. Grant, and M. Edward Rister, 1984. "Economic Values of Rice Quality Factors." Texas Agricultural Experiment Station Progress Report, PR-4202, June, 26 pages.
284. Brorsen, B. Wade and Scott H. Irwin, 1984. "Seasonal Price Patterns of Indiana Commodities." Purdue Agricultural Economics Report, November, pp. 8-11.
285. Irwin, S.H. and B.W. Brorsen, 1984. "Does Technical Analysis Really Work?" Purdue Agricultural Economics Report, August, pp. 8-9.

#### **b. Teaching Materials Used in Extension Education Program**

The following papers were prepared by Dr. Brorsen and Professor William Uhrig for the Fall Economic Outlook programs conducted by Purdue's Department of Agricultural Economics during 1984-1987.

286. Uhrig, J. William and B. Wade Brorsen, 1987. "1987-88 Corn, Soybean and Wheat Outlook." August 27, 20 pages.
287. Uhrig, J. William and B. Wade Brorsen, 1986. "Feedgrain, Soybean, and Wheat Situation." August 28, 23 pages.
288. Uhrig, J. William and B. Wade Brorsen, 1985. "1985-86 Feedgrain, Soybean, and Wheat Outlook." August 29, 15 pages.
289. Uhrig, J. William and B. Wade Brorsen, 1984. "Corn, Soybean, and Wheat Outlook." August 30, 14 pages.

### **5. OTHER PUBLICATIONS**

#### **a. Books, Book Chapters, and Edited Proceedings**

290. Anderson, K.B., and B.W. Brorsen. 2009. "U.S. Wheat Marketing System and Price Discovery." In B.F. Carver (ed.) *Wheat: Science and Trade*. Ames, IA: Wiley-Blackwell Publishing.
291. Townsend, J.P., and B.W. Brorsen, 2004. "Performance of Managed Futures: Persistence and the Source of Returns." *Commodity Trading Advisors: Risk, Performance Analysis and Selection*. G.N. Gregoriou, V.N. Karavas, F.S. Lhabitant, and F. Rouah eds. Hoboken, N.J.: John Wiley & Sons, pp. 31-48.
292. Harri, A., and B.W. Brorsen, 2004. "The Optimal Investment Strategy." *Hedge Funds: Strategies, Risk Assessment, and Returns*. G.N. Gregoriou, V.N. Karavas, and F. Rouah, eds., Washington DC: Beard Books, pp. 63-70.
293. Arias Segura, J., B.W. Brorsen and A. Harri, 2000. *Optimal Hedging under Nonlinear Borrowing Cost, Progressive Tax Rates, and Liquidity Constraints*. San Jose, Costa Rica: Inter-American Institute for Cooperation on Agriculture, (In Spanish and English).
294. B. Wade Brorsen, ed., 1997. *NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management*. Stillwater, OK: Department of Agricultural Economics, Oklahoma State University, 414 pages.
295. Hall, Joyce A., B. Wade Brorsen, and Scott H. Irwin, 1996. "The Distribution of Futures Prices: A Test of the Stable Paretian and Mixture of Normals Hypotheses." In *The International Library of Critical Writings in Financial Economics: Futures Markets*. Richard Roll, series editor, A. G. Malliaris, Volume editor.
296. B. Wade Brorsen, ed., 1996. *NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management*. Stillwater, OK: Department of Agricultural Economics, Oklahoma State University, 417 pages.
297. Yang, Seung-Ryong, and B. Wade Brorsen. "Nonlinear Dynamics of Daily Futures Prices: Conditional Heteroskedasticity or Chaos?" In *Chaos Theory and Nonlinear Dynamics*. Robert Trippi, ed., Burr Ridge, IL: Irwin Professional Publishing, 1995, pp. 225-244.
298. B. Wade Brorsen, ed., 1995. *NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management*. Stillwater, OK: Department of Agricultural Economics, Oklahoma State University, 445 pages.
299. B. Wade Brorsen, ed., 1994. *NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management*. Stillwater, OK: Department of Agricultural Economics, Oklahoma State University, 364 pages.
300. Brorsen, B.W., and S.H. Irwin, 1992. "Examination of Commodity Fund Performance." In *Managed Futures*. C.C. Peters, ed., Chicago, IL: Probus Publishing Company, pp. 171-188.
301. Irwin, S.H., and B.W. Brorsen, 1992. "Public Futures Funds." In *Managed Futures*. C.C. Peters, ed., Chicago, IL: Probus Publishing Company, pp. 121-152.
302. Bailey, DeeVon, B. Wade Brorsen, and Chris Fawson, 1992. "A Test for Market Power at Feeder Cattle Auctions." *Pricing and Coordination in Consolidated Livestock Markets: Captive Supplies Market Power, IRS Hedging Policy*, Wayne D. Purcell, editor. Blacksburg, VA: Research Institute on Livestock Pricing, pp. 67-92.

303. Lukac, L.P., B.W. Brorsen, and S.H. Irwin. 1989. *A Comparison of Twelve Technical Trading Systems with Market Efficiency Implications*. Greenville, SC: Traders Press, Inc., 71 pages.

**b. Book Review and Comment**

304. Brorsen, B. Wade. 1989. *Introduction to the Theory and Practice of Econometrics*, by George G. Judge, R. Carter Hill, William E. Griffiths, Helmut Lutkepohl and Tsoung-Chao Lee, *American Journal of Agricultural Economics* 71(May):540.
305. Brorsen, B.W. 2012. "Discussion: Agricultural Commodities and Agribusiness Stocks as Financial Assets." *Journal of Agricultural and Applied Economics* 44(3):397-399.

**c. Outlook and Situation Reports**

306. Boyd, Milton S., B. Wade Brorsen, and Warren R. Grant, 1985. "Soybean Processing Margins and Risk." *Oil Crops Outlook and Situation Report*, ERS-USDA, OCS-9, November, pp. 18-20.
307. Beutler, M.K., B.W. Brorsen, and W.R. Grant, 1984. "Price Relationships in the Soybean Complex." *Oil Crops Outlook and Situation Report*, ERS-USDA, OCS-5, May, pp. 11-13.
308. Brorsen, B. Wade, Warren R. Grant, and Jean-Paul Chavas, 1984. "Commodity Price Relationships in the Southern Plains." *Feed Outlook and Situation Report*, ERS-USDA, FDS-294, March, pp. 10-11.
309. Brorsen, B. Wade, Warren R. Grant, and Jean-Paul Chavas, 1983. "Dynamic Relationships of Rice Prices." *Rice Outlook and Situation*, ERS-USDA, RS-42, September, pp. 12-15. (Reprinted in *Rice Market News*, 64(December 20, 1983):4-6.)
310. Grant, Warren R., M. Edward Rister, and B. Wade Brorsen, 1983. "The Value of Rice Quality." *Rice Outlook and Situation*, ERS-USDA, RS-41, September, pp. 8-11. (Reprinted in *Rice Market News* 64(December 13, 1983):6-8.)

**d. Working Papers and Other Publications**

311. Brorsen, B. Wade, 1989. "Futures Trading, Transaction Costs, and Stock Market Volatility." Center for the Study of Futures Markets Working Paper #188, March 1989.
312. Lukac, Louis P., B. Wade Brorsen, and Scott H. Irwin, 1986. "Similarity of Computer Guided Technical Trading Systems." Center for the Study of Futures Markets Working Paper #CSFM-124, March, 16 pages.
313. Brorsen, B.W. and S.H. Irwin, 1985. "Evaluation of Public Futures Funds." *Columbia Futures Center Newsletter*, Spring, pp. 7-8.
314. Brorsen, B.W. and S.H. Irwin, 1984. "Evaluation of Public Futures Funds." Center for the Study of Futures Markets Working Paper #CSFM-77, April, 20 pages.
315. Bailey D.V. and B.W. Brorsen, 1984. "Fat Cattle: Regional Price Differences 1978-1983." *Utah Science*, 45(Winter):101-103.

## **6. PAPERS PRESENTED AT PROFESSIONAL CONFERENCES/MEETINGS**

### **a. Selected Papers, Posters, and Organized Symposia**

1. Ng'ombe, J.N., R.T. Melstrom, and B.W. Brorsen. 2018. "The Effect of Including Irrelevant Alternatives in Discrete Choice Models with and Application to Recreation Demand." Selected paper. Agricultural and Applied Economics Association. Washington, D.C., August 5-7.
2. Mills, B., B.W. Brorsen, and B. Arnall. 2018. "Optimal Grid Size for Site-Specific Nutrient Application in Wheat Production." Selected paper. Agricultural and Applied Economics Association. Washington, D.C., August 5-7.
3. Park, E., B.W. Brorsen, and X. Li. 2018. "How to Use Yield Monitor Data to Determine Nitrogen Recommendations: Bayesian Kriging for Location Specific Parameter Estimates." Selected paper. Agricultural and Applied Economics Association. Washington, D.C., August 5-7.
4. Niyibizi, B., B.W. Brorsen, and E. Park. 2018. "Using Bayesian Kriging for Spatial Smoothing of Trends in the Means and Variances of Crop Yield Densities." Selected paper. Agricultural and Applied Economics Association. Washington, D.C., August 5-7.
5. Mills, B., B.W. Brorsen, and B. Arnall. 2018. "The Profitability of Variable Rate Lime in Wheat." Selected paper, International Conference on Precision Agriculture, Montreal, Canada, June 24-27.
6. Maples, W., B.W. Brorsen, D. Peel, and B. Hicks. 2018. "Value of Preventive Antibiotic Use in Feedlot Cattle." Selected paper. Western Agricultural Economics Association annual meeting. Anchorage, Alaska, June 23-25.
7. Brorsen, B.W., B. Niyibizi, and E. Park. 2018. "Using Spatial Data to Estimate Distributions to Rate Area Crop Insurance Policies." SCC-76: Economics and Management of Risk in Agriculture and Natural Resources annual meeting, Kansas City, MO.
8. Biedenbach, A., B.W. Brorsen, J.T. Biermacher, J. Rogers, D.A. Marburger, and A. Richards. 2018. "The Design of the Rainfall Index Annual Forage Pilot Program." Selected paper. Southern Agricultural Economics Association annual meeting, Jacksonville, FL, Feb. 4-7.
9. Ng'ombe, J.N., B.W. Brorsen, B.W., W.R. Raun. and J.S. Dhillon. 2018. "Economics of the Greenseeder Hand Planter." Selected paper. Southern Agricultural Economics Association annual meeting, Jacksonville, FL, Feb. 4-7.
10. Mulenga, B., B.W. Brorsen, F.M. Epplin, C. Rush, and F. Workneh. 2018. "Economic Threshold of Wheat Streak Mosaic Infection Severity in the Texas High Plains." Selected paper. Southern Agricultural Economics Association annual meeting, Jacksonville, FL, Feb. 4-7.
11. Brorsen, B.W. 2018. "A Few Rambling Thoughts." SAEA Lifetime Achievement Awards. Southern Agricultural Economics Association annual meeting, Jacksonville, FL, Feb. 4-7.
12. Mills, B., B.W. Brorsen, and E. Tostão. 2017. "Wheat Nitrogen Response Conditional on Past Yield and Weather: A Step in Making Use of Big Data." Selected poster. Agricultural and Applied Economics annual meeting, Chicago, IL, July 30- August 1.

13. Park, E., B.W. Brorsen, and A. Harri. 2017. "Spatially Smoothed Crop Yield Density: Physical Distance vs Climate Similarity." Selected poster. Agricultural and Applied Economics annual meeting, Chicago, IL, July 30- August 1.
14. Niyibizi, B., and B.W. Brorsen. 2017. "Robustness of the Impact of Climate Change on U.S. Corn Yields." Selected presentation. Agricultural and Applied Economics annual meeting, Chicago, IL, July 30- August 1.
15. McKenzie, A.M., B.W. Brorsen, and B.J. Isbell. 2017. "The Cost of Forward Contracting in CIF NOLA Export Bid and Barge Freight Markets." Selected poster. Agricultural and Applied Economics annual meeting, Chicago, IL, July 30- August 1.
16. Mills, B., B.W. Brorsen, and E. Tostão. 2017. "Using Weather Data in Deciding How Much Top Dress Nitrogen to Apply: A Cheaper Alternative." Paper presented at Western Agricultural Economics Association annual meeting, Tahoe, NV, July 9-10.
17. Kim, S., J. Lusk, and B.W. Brorsen. 2017. "Look at Me, I'm Buying Organic: The Effects of Social Pressure on Organic Food Purchases." Paper presented at Western Agricultural Economics Association annual meeting, Tahoe, NV, July 9-10.
18. Mills, B., B.W. Brorsen, and B. Arnall. 2017. "Evaluating the Profitability of Grid Sampling for Lime Application in Wheat Production." Paper presented at Western Agricultural Economics Association annual meeting, Tahoe, NV, July 9-10.
19. Maples, J.G., and B.W. Brorsen, 2017. "Time Series Modeling of Cash and Futures Commodity Prices." NCCC-134: Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, St. Louis, MO, April 24-25.
20. Maples, W., B.W. Brorsen, and X. Etienne. 2017. "Hedging Effectiveness of Fertilizer Swaps." NCCC-134: Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, St. Louis, MO, April 24-25.
21. Isbell, B., A. McKenzie, and B.W. Brorsen. 2017. "The Cost of Forward Contracting in CIF NOLA Export Bid Market." NCCC-134: Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, St. Louis, MO, April 24-25.
22. Ouedraogo, F., B.W. Brorsen, and M. Dicks. 2017. "Veterinarians and Student Loan Debt: Is the Burden Too Much?" Selected paper. Southern Agricultural Economics Association annual meeting, Mobile, AL, February 4-7.
23. Kim, T., B.W. Brorsen, and P. Kenkel. 2016. "Effect of Data Aggregation on Inefficiency Estimates." Seventh International Conference on Agricultural Statistics, Rome, Italy, October 26-28.
24. Park, E., B.W. Brorsen, and A. Harri. 2016. "Using Bayesian Spatial Smoothing and Extreme Value Theory to Develop Area-Yield Crop Insurance Rating." Selected paper. Agricultural and Applied Economics annual meeting, Boston, MA, July 31-August 2.
25. Banga, J.S., and B.W. Brorsen. 2016. "Deep Learning: A Potential Forecasting Tool." NCCC-134 Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management. St. Louis, MO, April 18-19.



26. Thompson, N. M., B.W. Brorsen, E.A. DeVuyst, and J.L. Lusk. 2016. "Random Sampling of Beef Cattle for Genetic Testing: Optimal Sample Size Determination." Selected paper. Southern Agricultural Economics Association meeting, Feb. 7-9, San Antonio, TX.
27. Ates, A.M., J.L. Lusk, and B.W. Brorsen. 2016. "Forecasting Meat Prices Using Consumer Expectations from the Food Demand Survey (FooDS)." Selected paper. Southern Agricultural Economics Association meeting, Feb. 7-9, San Antonio, TX.
28. Brorsen, B.W., J.R. Fain, and J.G. Maples. 2015. "Alternative Policy Responses to Increased Use of Formula Pricing." Principal paper. Agricultural and Applied Economics Association annual meeting, July 26-28, San Francisco, CA.
29. McFadden, B.R., and B.W. Brorsen. 2015. "Nitrogen Fertilizer Recommendations Based on Precision Sensing and Bayesian Updating." 20<sup>th</sup> International Farm Management Congress, July 17-21, Quebec City, Canada.
30. Brorsen, B.W., and F.B. Ouedraogo. 2015. "Using Bayesian Estimation Methods to Determine Optimal Levels of Nitrogen Fertilization." Contributed paper. International Conference of Agricultural Economists, August 8-14, Milan, Italy.
31. Kim, S., and B.W. Brorsen. 2015. "Causal Relationships among World Fertilizer Markets." Selected Poster. Agricultural and Applied Economics Association annual meeting, July 26-28, San Francisco, CA.
32. Cowley, C., and B.W. Brorsen. 2015. "Anaerobic Digester Production and Cost Functions." Selected paper. Agricultural and Applied Economics Association annual meeting, July 26-28, San Francisco, CA.
33. Thompson, N.M., E.A. DeVuyst, B.W. Brorsen, and J.L. Lusk. 2015. "Using Genetic Testing to Improve Fed Cattle Marketing Decisions." Selected paper. Agricultural and Applied Economics Association annual meeting, July 26-28, San Francisco, CA.
34. Brorsen, B.W. 2015. "Accept or Reject: An Editor's Insight." GSS-FSN Track Session. Agricultural and Applied Economics Association annual meeting, July 26-28, San Francisco, CA.
35. Seok, J., and B. W. Brorsen. 2015. "Pricing Calendar Spread Options." NCCC-134 Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, April 20-21, St. Louis, MO.
36. Kim, S.W., and B.W. Brorsen. 2015. "Forecasting Urea Prices." NCCC-134 Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, April 20-21, St. Louis, MO.
37. Maples, J. G., B.W. Brorsen, and J.T. Biermacher. 2015. "The Rainfall Index Annual Forage Pilot Program as a Risk Management Tool for Cool Season Forage." NCCC-134 Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, April 20-21, St. Louis, MO.
38. Fain, J., B.W. Brorsen, and J. Maples. 2015. "The Impact of Thin Markets Created by Formula-Based Contracts: An Agent-Based Model." Presented at the 41st Annual Meeting of the Eastern Economic Association, Feb. 26-March 1, New York City, NY.

39. Brorsen, B.W., and J.R. Fain. 2014. "An Agent-Based Analysis of the Effects of Thin Markets." Presentation in the Organized Session: Computational Microeconomics: Applications to Agricultural Markets," European Association of Agricultural Economists, Ljubljana, Slovenia.
40. Brorsen, J.R. Fain, and W. Hahn. 2014. "Thin Market Issues in Livestock Markets." Presentation at ERS Workshop: Price Discovery in Thin Markets, Washington DC, May 29.
41. Brorsen, B.W., and F. Ouedraogo. 2014. "Linear versus Quadratic Response Plateau for Estimating the Optimal Levels of Nitrogen with Three Alternative Distributional Assumptions." Selected paper, Western Agricultural Economics Association annual meeting, Colorado Springs, CO.
42. Cowley, C., and B.W. Brorsen. 2014. "The Effects of Policies and Farmer Characteristics on the Adoption of Anaerobic Digesters in the United States." Selected paper, Western Agricultural Economics Association annual meeting, Colorado Springs, CO.
43. Cowley, C., B.W. Brorsen, and D. Hamilton. 2014. "Economic Feasibility of Anaerobic Digesters with Swine Operations." Selected paper, Agricultural and Applied Economics Association annual meeting. Minneapolis, MN.
44. Ouedraogo, F.B., B.W. Brorsen, and H. Kazianga. 2014. "Can Traction Animals Be an Alternative to Large Family Size?" Selected poster, Agricultural and Applied Economics Association annual meeting. Minneapolis, MN.
45. Hu, Z., and B.W. Brorsen. 2014. "Spatial Price Efficiency in the Urea Market." NCCC-134 Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, St. Louis, MO.
46. Ouedraogo, F., and B.W. Brorsen. 2014. "Bayesian Estimation of Optimal Nitrogen Rates with a Nonnormally Distributed Plateau." Selected paper. Southern Agricultural Economics Association, Dallas, TX.
47. Kim, S., B.W. Brorsen, and B.S. Yoon. 2014. "Cross Hedging Winter Canola." Southern Agricultural Economics Association, Dallas, TX.
48. Thompson, N., E.A. DeVuyst, B.W. Brorsen, and J.L. Lusk. 2014. "Value of Genetic Information for Beef Cattle at the Feedlot Stage." Southern Agricultural Economics Association, Dallas, TX.
49. Seok, J., B.W. Brorsen, and W. Li. 2013. "Calendar Spread Options for Storable Commodities." Selected paper, Agricultural and Applied Economics Association, Washington DC.
50. Gouzaye, A., F.M. Epplin, B.W. Brorsen, Y. Wu, and S.O. Makaju. 2013. "Switchgrass Biomass Yield and Fertilizer Requirements by Month of Harvest: Economic Consequences of Nutrient Translocation and Remobilization." Selected poster, Agricultural and Applied Economics Association, Washington, DC.
51. Ouedraogo, F.B., and B.W. Brorsen. 2013. "Yield Response to Nitrogen with Time Trend and Nonnormality." Selected poster, Agricultural and Applied Economics Association, Washington, DC.
52. Brorsen, B.W., and N.H. Lansford. 2013. "Sales Tax Collections in Nonmetropolitan Counties."

- Selected poster, Agricultural and Applied Economics Association, Washington, DC.
53. Boyer, C.N., B.W. Brorsen, and J.R. Fain. 2013. "Private-Value Auction versus Posted-Price Selling: An Agent-Based Model Approach." 19<sup>th</sup> International Conference, Computing in Economics and Finance, Vancouver, Canada.
  54. Milacek, T.T., and B.W. Brorsen. 2013. "How Much Would It Be Worth to Know the WASDE Report in Advance?" NCCC-134 Conference on Applied Commodity Price Analysis, Forecasting and Market Risk Management, St. Louis, MO, April.
  55. Brorsen, B.W. 2013. "Bayesian Estimation and Decision Theory to Determine the Optimal Level of Nitrogen in Cotton." Southern Agricultural Economics Association annual meeting, Orlando, FL, February 4-7.
  56. Brorsen, B.W., J. Seok, and W. Li. 2013. "A New Model of Calendar Spread Options on Storable Commodities." International Mathematical Finance Conference, Miami, FL, March 22-24.
  57. Lee, Y., and B.W. Brorsen. 2012. "Impacts of Permanent and Transitory Shocks on Optimal Length of Moving Average to Predict Wheat Basis." Selected paper. American Agricultural Economics Association Annual Meeting, Seattle, WA.
  58. McFadden, B.R., and B.W. Brorsen. 2012. "Bayesian Updating of Recommended Optimal Nitrogen Application Rates from Optical Reflective Measurements." Selected paper. Western Agricultural Economics Association, Park City, UT.
  59. Brorsen, B.W., C.N. Boyer, and T. Zhang. 2012. "Common Value Auction versus Posted Price Selling: An Agent-Based Model Approach." Selected paper. 18<sup>th</sup> International Conference on Computing in Economics and Finance. Prague, Czech Republic.
  60. Neal, K., D. Doye, and B.W. Brorsen. 2012. "Fragmentation of Agricultural Land Parcels." Selected paper. Southern Agricultural Economics Association, Birmingham, AL.
  61. Zakrzewicz, C., B.W. Brorsen, and B.C. Briggeman. 2011. "Relationships among Alternative Measures of Agricultural Land Values." Selected poster. Agricultural and Applied Economics Association, Pittsburg, PA.
  62. Brorsen, B.W., E. Tumusiime, and C.N. Boyer. 2011. "Modeling Crop Yield Distributions Using Frontier Linear Response Stochastic Plateau Function." Selected paper. Southern Agricultural Economics Association annual meeting, Corpus Christi, TX, 7-8 February.
  63. Lee, B.-H., P. Kenkel, and B.W. Brorsen. 2011. "Prediction of Wheat Yield and Quality Using Meso-Scale Weather Data." Selected paper. Southern Agricultural Economics Association annual meeting, Corpus Christi, TX, 7-8 February.
  64. Aravindhakshan, S., and B.W. Brorsen. 2011. "Identifying Jumps and Systematic Risks in Commodity Futures Markets." NCCC-134 Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, St. Louis, MO.
  65. Henneberry, S.R., B.W. Brorsen, and J.E. Mutondo. 2010. "Impacts of Country of Origin Labeling on Producers and Marketers of U.S. Meats." Selected paper. NEC-63 and AAFA Food Safety Section Conference on Economics of Improved Food Safety Practices, September 28, Monterey, CA.

66. Zakrzewicz, C., B.W. Brorsen, and B.C. Briggeman. 2010. "Can the Federal Reserve Bank's Survey of Agricultural Credit Conditions Forecast Land Values?" Selected paper. Agricultural and Applied Economics Association annual meeting, Denver, CO.
67. Tumusiime, E., B.W. Brorsen, J.T. Biermacher, and J. Mosali. 2010. "Effect of Nitrogen Fertilization and Liming on Rye-Ryegrass Yield and Soil pH Dynamics." Selected paper. Agricultural and Applied Economics Association annual meeting, Denver, CO.
68. Boyer, C.N., B.W. Brorsen, J.B. Solie, D.B. Arnall, and W.R. Raun. 2010. "Economics of Pre-plant, Topdress, and Variable Rate Nitrogen Application in Winter Wheat." Selected paper. Agricultural and Applied Economics Association annual meeting, Denver, CO.
69. Brorsen, B.W. 2010. "Introduction to Copulas." Track session presentation. Agricultural and Applied Economics Association annual meeting, Denver, CO.
70. Brorsen, B.W. 2010. "How to Give a Research Presentation." Track session presentation. Agricultural and Applied Economics Association annual meeting, Denver, CO.
71. Wu, Y., T. Krehbiel, and B.W. Brorsen. 2010. "Impacts of Tick Size Reduction on Transaction Costs." Western Economics Association International annual meeting, Portland, OR.
72. Zhang, T., and B.W. Brorsen. 2010. "The Long Run and Short Run Impact of Captive Supplies on the Spot Market Price: An Agent-Based Artificial Market." NCCC-134 Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, St. Louis, MO.
73. Tumusiime, E., B.W. Brorsen, J. Johnson, J. Locke, J. Mosali, and J.T. Biermacher. 2010. "Determining Optimal Level of Nitrogen Fertilizer for Ryegrass Pasture Using Random Parameter Models." Selected paper. Southern Agricultural Economics Association annual meeting, Orlando, FL.
74. Boyer, C.N., B.W. Brorsen, W.R. Raun, and J.B. Solie. 2010. "Profitability of Conventional vs. Variable Rate Nitrogen Application in Wheat Production." Selected paper. Southern Agricultural Economics Association annual meeting, Orlando, FL.
75. Shah, S., and B.W. Brorsen. 2010. "Transition to Electronic Trading of Kansas City Board of Trade Wheat Futures." Selected paper. Southern Agricultural Economics Association annual meeting, Orlando, FL.
76. Lee, Y., C.E. Ward, and B.W. Brorsen. 2010. "Relationships among Prices across Alternative Marketing Arrangements for Fed Cattle and Hogs." Selected paper. Southern Agricultural Economics Association annual meeting, Orlando, FL.
77. Brorsen, B.W., and F.G.C. Richter. 2009. "Optimal Experimental Designs for Determining Expected Profit Maximizing Levels of Fertilizer." Joint Statistical Meetings, Washington DC, August 1-6.
78. Zhang, T., and B.W. Brorsen. 2009. "Particle Swarm Optimization Algorithm for Agent-Based Artificial Markets." 15<sup>th</sup> International Conference on Computing in Economics and Finance, Sydney, Australia, July 15-17.
79. Shah, S., and B.W. Brorsen. 2009. "Electronic vs. Open Outcry Trading in Agricultural

- Commodities Futures Markets.” Farm Foundation / Commodity Futures Trading Commission / Economic Research Service Commodity Contract Design Workshop, Washington, DC, June 9-10.
80. Kim, T., P. Kenkel, and B.W. Brorsen. 2009. “Forecasting Demand for Rural Electric Cooperative Call Center.” Selected paper. Southern Agricultural Economics Association annual meeting, Atlanta, GA.
  81. Shah, S., B.W. Brorsen, and K.B. Anderson. 2009. “Liquidity Costs in Futures Options Markets.” NCCC-134 Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, St. Louis, MO.
  82. Hatchett, R., B.W. Brorsen, and K.B. Anderson. 2009. “Basis Forecasts and the Law of One Price.” NCCC-134 Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, St. Louis, MO.
  83. Roberts, D., B.W. Brorsen, W.R. Raun, and J.B. Solie. 2008. “Nitrogen-Rich Strips vs. Ramped Strips.” 9<sup>th</sup> International Conference on Precision Agriculture, Denver, CO.
  84. Kim, T., B.W. Brorsen, P. Kenkel. 2008. “Estimation of Efficiency with the Stochastic Frontier Cost Function and Heteroscedasticity: A Monte Carlo Study.” Selected paper, American Agricultural Economics Association, Orlando, FL.
  85. Harri, A., B.W. Brorsen, A. Muhammad, and J.D. Anderson. 2008. “Estimating a Demand System with Seasonally Differenced Data.” Selected paper, American Agricultural Economics Association, Orlando, FL.
  86. Kim, H.Y., and B.W. Brorsen. 2008. “Can Real Option Value Explain Why Producers Appear to Store Too Long?” NCCC-134 Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, St. Louis, MO.
  87. Zhang, T., and B.W. Brorsen. 2008. “Price Competition with Particle Swarm Optimization: An Agent-Based Artificial Model.” Selected paper, Southern Agricultural Economics Association annual meeting, Dallas, TX.
  88. Roberts, D.C., B.W. Brorsen, W.R. Raun, and J.B. Solie. 2008. “The Value of Regional Nitrogen Needs Information for Wheat Producers in Oklahoma.” Selected paper, Southern Agricultural Economics Association annual meeting, Dallas, TX.
  89. Adam, B.D., M. Siaplay, B.W. Brorsen, and P.W. Flinn. 2007. “Should Grain Elevator Managers Adopt Integrated Pest Management?” Selected paper, American Agricultural Economics Association annual meeting, Portland, OR.
  90. Henneberry, S., Mutondo, J.E., and B.W. Brorsen. 2007. “Welfare Implications of Selected Supply and Demand Shocks on Producers and Marketers of U.S. Meats.” Selected paper, American Agricultural Economics Association annual meeting, Portland, OR.
  91. Roberts, D., B.W. Brorsen, and W. Raun. 2007. “Region vs. Single Field: What Is the Value of Increasingly Spatially Precise Nitrogen Applications?” Selected poster, American Agricultural Economics Association annual meeting, Portland, OR.
  92. Doye, D., P. Guiling, and B.W. Brorsen. 2007. “Rural and Urban Influences on Agricultural Land Values.” 16<sup>th</sup> International Farm Management Association Congress, Cork, Ireland.

93. Biermacher, J.T., F.M. Epplin, B.W. Brorsen, J.B. Solie, W.R. Raun. 2007. "What Is the Potential for Precision Agriculture Based on Plant Sensing?" 16<sup>th</sup> International Farm Management Association Congress, Cork, Ireland.
94. Kim, H.S., B.W. Brorsen, and K.B. Anderson. 2007. "Profit Margin Hedging." NCCC-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management, April 16-17, Chicago, IL.
95. Siaplay, M., K.B. Anderson, and B.W. Brorsen. 2007. "Using Basis as a Barometer in Deciding Whether to Store Grain or Not." NCCC-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management, April 16-17, Chicago, IL.
96. Guiling, P., D. Doye, and B.W. Brorsen, 2007. "How Much Influence Does Recreation Have on Agricultural Land Prices?" Selected paper, Southern Agricultural Economics Association annual meeting, Mobile, AL.
97. Tostão, E, C. Chung, and B.W. Brorsen, 2006. "Integrating the Structural Auction Approach and Traditional Measures of Market Power." Selected paper, American Agricultural Economics Association annual meeting, Long Beach, CA.
98. Biermacher, J.T., F.M. Epplin, B.W. Brorsen, J.B. Solie, and W.R. Raun, 2006. "Precision Nitrogen Fertilization Technology with Micro Grids." Selected paper, American Agricultural Economics Association annual meeting, Long Beach, CA.
99. Brorsen, B.W., 2006. "On Getting Published: Views from an AJAE Editor." Organized Symposium presentation, American Agricultural Economics Association annual meeting, Long Beach, CA.
100. Biermacher, J.T., F.M. Epplin, B.W. Brorsen, J.B. Solie, and W.R. Raun, 2006. "Maximum Value of a Precise Nitrogen Application System for Wheat." Selected paper, Southern Agricultural Economics Association Annual Meeting, Orlando, FL.
101. Zhang, T., and B.W. Brorsen, 2006. "Heterogeneity in Producer's Marketing Strategy." Selected paper, Southern Agricultural Economics Association Annual Meeting, Orlando, FL.
102. Klumpp, J.N., B.W. Brorsen, and K.B. Anderson, 2005. "Information Loss Due to Use of Aggregate Data in Marketing Strategy Research." American Agricultural Economics Association Annual Meeting, Providence, RI.
103. Brorsen, B.W., and E. Tostão, 2005. "Why Do Nitrogen Response Rates Vary?" Western Agricultural Economics Association Annual Meeting, San Francisco, CA.
104. Klumpp, J.N., B.W. Brorsen, and K.B. Anderson, 2005. "The Impact of Marketing Strategy Information on the Producer's Selling Decision." NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management, St. Louis, MO.
105. Biermacher, J., F.M. Epplin, J.B. Solie, W.R. Raun, B.W. Brorsen, M.L. Stone, 2005. "Nitrogen Fertilization of Growing Wheat Based upon Site-Specific Optical Sensing." Selected paper, Southern Agricultural Economics Association Annual Meeting, Little Rock, AR.
106. Klumpp, J.M., B.W. Brorsen, and K.B. Anderson, 2005. "The Preference for Round Number Prices." Selected paper, Southern Agricultural Economics Association Annual Meeting, Little Rock, AR.

107. Cunningham, L.T. III, B.W. Brorsen, and K.B. Anderson, 2004. "Explaining Differences in Prices Received by Farmers: Testing Theory Based on Actual Farmer Transactions." Selected paper, American Agricultural Economics Association Annual Meeting, Denver, CO.
108. Norwood, B., J. Lusk., and B.W. Brorsen, 2004. "Forecasting Limited Dependent Variables: Better Statistics for Better Steaks." Selected paper, Southern Agricultural Economics Association Annual Meeting, Tulsa, OK.
109. Cunningham, L.T. III, B.W. Brorsen, and K.B. Anderson, 2004. "Cash Marketing Styles and Performance Persistence of Wheat Producers." NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management, St. Louis, MO.
110. Norwood, B., J. Lusk, and B.W. Brorsen, 2004. "Evaluating Forecasts of Discrete Variables: Predicting Cattle Quality Grades." NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management, St. Louis, MO.
111. Ngange, W., S. Kaitibie, B.W. Brorsen, and F. Epplin. 2003. "Optimal Stocking Density and Food Safety Risks in Steer Production Enterprise." Paper presented at Western Coordinating Committee on Agribusiness: WCC-72 Annual Meeting.
112. Brorsen, B. W., and L. Hamm, 2003. "Neural Networks and Global Optimization." Contributed paper, Joint Statistical Meetings, San Francisco, CA.
113. Kaitibie, S., W. Ngange, B.W. Brorsen, and F. Epplin, 2003. "Optimal Stocking Density under Production and Output Price Uncertainty with Alternative Functional Forms." Selected paper, American Agricultural Economics Association, Montreal, Canada.
114. Pebe Diaz, E.F., B.W. Brorsen, F.G.C. Richter, and K. Currier, 2003. "Using Both Sociological and Economic Incentives to Reduce Moral Hazard." Selected paper, Southern Agricultural Economics Association, Mobile, AL.
115. Tembo, G., B.W. Brorsen, and F.M. Epplin, 2003. "Linear Response Stochastic Plateau Functions." Selected paper, Southern Agricultural Economics Association, Mobile, AL.
116. Brorsen, B.W., and D. Ji, 2003. "Wheat Grading in Turkey." Selected poster, Southern Agricultural Economics Association, Mobile, AL.
117. Brorsen, B.W., and W.V. Kidd, 2002. "Why Have the Returns to Technical Analysis Declined?" Invited paper, Futures Industry Expo 2002, Chicago, IL.
118. Hamm, L., and B. W. Brorsen, 2002. "Global Optimization Methods." selected paper, Western Agricultural Economics Association, Long Beach, CA.
119. Kaitibie, S., F.M. Epplin, B.W. Brorsen, G.W. Horn, E.G. Krenzer Jr., and S.I. Paisley. "Derivation and Optimization of a Stochastic Livestock Weight Gain Response to Stocking Density Model." selected paper, Western Agricultural Economics Association, Long Beach, CA.
120. Anderson, K.A., and B.W. Brorsen, 2002. "Proof That Wheat Producers Are Good Marketers." The 5<sup>th</sup> Annual National Wheat Industry Research Forum, Orlando, FL.

121. Hamm, L., B. W. Brorsen, and M. T. Hagan, 2002. "Neural Networks: Are Stochastic Global Optimization Methods Worth the Trouble?" Paper presentation, International Conference on Machine Learning and Application, Las Vegas, NV.
122. Brorsen, B. W., and K. B. Anderson, 2002. "Actual Farmer Market Timing." NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management, St. Louis, MO.
123. Kidd, W. V., and B. W. Brorsen, 2002. "Can Structural Change Explain the Decrease in Returns to Technical Analysis?" NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Managements, St. Louis, MO.
124. Hamm, L., B. W. Brorsen, and M. T. Hagan, 2002. "Global Optimization of Neural Network Weights." Poster presentation, International Joint Conference on Neural Networks, Honolulu, HI.
125. Tostão, E., and B. W. Brorsen, 2002. "Spatial Maize Market Efficiency in Mozambique and the Surrounding Countries." Selected paper, Southern Agricultural Economics Association, Orlando, FL.
126. Richter, F. G.-C., and B.W. Brorsen, 2001. "Aggregate vs. Disaggregate Data in Measuring Production Efficiency." Selected paper, American Agricultural Economics Association, Chicago, IL.
127. Dameus, A., B.W. Brorsen, and P. Kullapapruk, 2001. "AIDS versus Rotterdam: A Cox Nonnested Test with Parametric Bootstrap." Selected paper, American Agricultural Economics Association, Chicago, IL.
128. Brorsen, B.W., T. Lehenbauer, D. Ji, and J. Connor, 2001. "Economic Impacts of Banning Subtherapeutic Use of Antibiotics in Swine Production." Selected paper, Western Agricultural Economics Association, Logan, UT.
129. Buguk, C., and B.W. Brorsen, 2001. "Seller and Buyer Satisfaction and Participation in Turkey's Wheat Exchanges." Selected paper, Western Agricultural Economics Association, Logan, UT.
130. Yoon, B.S., B.W. Brorsen, and C.P. Lyford, 2001. "Value of Increasing Kernel Uniformity." Selected paper, Western Agricultural Economics Association, Logan, UT.
131. Brorsen, B.W., and K.B. Anderson, 2001. "Implications of Behavioral Finance for Farmer Marketing Strategy Recommendations." NCR-134 Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, St. Louis, MO.
132. Yoon, B.S., and B.W. Brorsen, 2001. "Market Inversion in Commodity Futures Prices." NCR-134 Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, St. Louis, MO.
133. Sivaraman, E., C.P. Lyford, and B.W. Brorsen, 2001. "A General Framework for Grain Blending and Segregation." Selected paper, Southern Agricultural Economics Association, Fort Worth, TX.
134. Lansford, N., B.W. Brorsen, and M.D. Woods. 2001. "A Retail Sales/Sales Tax Paradox." Selected paper, Southern Agricultural Economics Association, Fort Worth, TX.
135. Lehenbauer, T.W., B.W. Brorsen, J.F. Connor, and L.J. Dawson, 2000. "Economic Impacts of Potential Restricted-Use Policies for Antimicrobial Agents Used as Growth Promotants in Swine



- Production.” 9th International Society of Veterinary Epidemiology and Economics Symposium, Breckenridge, CO.
136. Brorsen, B.W., and K. Anderson, 2000. “Mechanical Marketing Strategies.” Selected paper, American Agricultural Economics Association, August 1, Tampa, FL.
  137. Anderson, K., B.W. Brorsen, and R. Sahs, 2000. “Efficient Markets and Mechanical Trading Strategies for Wheat.” The 3<sup>rd</sup> Annual National Wheat Industry Research Forum. February 10-11, Las Vegas, NV.
  138. Pebe Diaz, E.F., B.W. Brorsen, K.B. Anderson, and P. Kenkel, 2000. “Effects of Overweight Samples and Rounding of Grade Percentages on Peanut Grades and Prices.” Selected paper, Western Agricultural Economics Association, Vancouver, Canada.
  139. Ji, D., and B.W. Brorsen, 2000. “Increasing the Accuracy of Option Pricing by Using Implied Parameters Related to Higher Moments.” NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management. April 18, Chicago, IL.
  140. Yoon, B.S, and B.W. Brorsen, 2000. “Rollover Hedging.” NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management. April 18, 2000, Chicago, IL.
  141. Yoon, B. Sam, and B.W. Brorsen, 1999. “Can Rollover Hedging Increase Mean Returns?” Selected paper, American Agricultural Economics Association, Nashville, TN.
  142. Coulibaly, N., and B.W. Brorsen. “Explaining the Differences between Two Previous Meat Generic Advertising Studies.” NEC-63 Symposium, March 29, 1999, Washington, D.C.
  143. Brorsen, B.W., N. Coulibaly, F. G.-C. Richter, and D.V. Bailey, 1999. “Feeder Cattle Price Slides.” *NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management*, Manhattan, KS: Kansas State University, Department of Agricultural Economics, pp. 105-124.
  144. Coulibaly, N., and B.W. Brorsen, 1998. “Resolving the Conflicts between Previous Meat Generic Meat Advertising Studies.” Selected paper, American Agricultural Economics Association, Salt Lake City, UT.
  145. Brorsen, B.W., and C. Jacques, 1998. “Consolidating Rural School Districts: Potential Savings and Effects on Student Achievement-Test Scores.” Selected paper, Southern Agricultural Economics Association, Little Rock, AR.
  146. Samikwa, D., L. Sanders, and B.W. Brorsen, 1998. “Hedonic Prices of Malawi Burley Tobacco.” Selected paper, Southern Agricultural Economics Association, Little Rock, AR.
  147. Harri, A., and B.W. Brorsen, 1998. “The Overlapping Data Problem.” Selected paper, Southern Agricultural Economics Association, Little Rock, AR.
  148. Brorsen, B.W., and J.P. Townsend, 1998. “Performance Persistence for Managed Futures.” NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management, Manhattan, KS: Kansas State Univ. Dep. Agri. Econ., pp. 337-354.

149. Bailey, D.V., and B.W. Brorsen, 1998. "Trends in the Accuracy of USDA Production Forecasts for Beef and Pork." *NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management*, Manhattan, KS: Kansas State Univ. Dep. Agri. Econ., pp. 205-216.
150. Jacques, C., and B.W. Brorsen, 1997. "Where Should Schools Spend Their Money?" Selected paper, American Agricultural Economics Association, Toronto, CA.
151. Brorsen, B.W., and C. Jacques, 1997. "The Effects of Historical Settlement Patterns on Oklahoma Student Achievement Test Scores." Selected paper, Western Agricultural Economics Association, Sparks, NV.
152. Townsend, J.P., and B.W. Brorsen, 1997. "Cost of Forward Contracting Hard Red Winter Wheat." Selected paper, Western Agricultural Economics Association, Sparks, NV.
153. Coulibaly, N., and B.W. Brorsen, 1997. "A Monte Carlo Sampling Approach to Testing Separate Families of Hypotheses: Monte Carlo Results." Selected paper, Western Agricultural Economics Association, Sparks, NV.
154. Brorsen, B.W., and K. Anderson, 1997. "Research Topics Suggested by Extension Marketing Economists." *NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management*, Stillwater, OK: Dept. Agr. Econ., Okla. State Univ., pp. 173-180.
155. Brorsen, B.W., D.V. Bailey, and M.R. Thomsen, 1997. "Mapping Market Areas Using Nonparametric Smoothing." Western Regional Science Association Meetings. Kona, Hawaii.
156. Anderson, K. and B. W. Brorsen, 1996. "Extension Marketing: What Is Taught?" Organized symposium presentation, American Agricultural Economics Association, San Antonio, TX.
157. Bailey, D. V., B. W. Brorsen, and M. Thomsen, 1996. "A Spatial Statistic for Identifying Market Areas." Selected paper, American Agricultural Economics Association, San Antonio, TX.
158. Betts, S., B. Adam, and B. W. Brorsen, 1996. "Effects of Reduced Government Deficiency Payments on Post-Harvest Marketing Strategies." Selected paper, American Agricultural Economics Association, San Antonio, TX.
159. Coulibaly, N. and B. W. Brorsen, 1996. "Replication and Misspecification Testing of Generic Advertising Econometric Studies." Selected paper, American Agricultural Economics Association, San Antonio, TX.
160. Betts, S., B.D. Adam, and B.W. Brorsen, 1996. "Effects of Reduced Government Deficiency Payments on Post-Harvest Marketing Strategies." *NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management*, Stillwater, OK: Department of Agricultural Economics, Oklahoma State University, pp. 158-175.
161. Bailey, DeeVon, B. Wade Brorsen, and Michael R. Thomsen, 1995. "Identifying Buyer Market Areas and the Impact of Buyer Concentration in Feeder Cattle Markets Using Mapping and Spatial Statistics." Selected paper, American Agricultural Economics Association, Indianapolis, IN.
162. Fofana, N'Zue F., and B.W. Brorsen, 1995. "GARCH Option Pricing with Implied Volatility." *NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management*. Stillwater, OK: Department of Agricultural Economics, Oklahoma State University, pp. 251-263.

163. Arias, J., and B.W. Brorsen, 1995. "Optimal Financial Leverage and the Determinants of Firm's Hedging Policies under Price, Basis, and Production Risk." *NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management*. Stillwater, OK: Department of Agricultural Economics, Oklahoma State University, pp. 64-77.
164. Lee, Jung-Hee and B. Wade Brorsen. "A Cox-Type Nonnested Test for Time-Series Models." Paper presented at Korean Econometric Society's annual meeting, Seoul, Korea, December 1994.
165. Hamm, L.K., and B.W. Brorsen, 1994. "Neural Networks: An Overview and Application." Symposium on Neural Networks, American Agricultural Economics Association annual meeting, San Diego, CA.
166. Brorsen, B. Wade, 1994. "Commentary on an International Shelled Peanut Futures Contract: The Use of Conjoint Analysis in New Contract Design." *Review of Futures Markets*, 13:249-253.
167. Teague, M. and B.W. Brorsen, 1994. "The Productivity of Agricultural Pesticides in the United States, 1949-1991." *Journal of Agricultural and Applied Economics*, 26:338.
168. Fofana, N'Zue F. and B. Wade Brorsen, 1994. "Determinants of Agricultural Commodities Futures Contracts' Volume and Open Interest." *Journal of Agricultural and Applied Economics*, 26:321.
169. Brorsen, B.Wade and Jun Zhang, 1994. "Forecasting Monthly Alfalfa Hay Prices: An Appraisal of Econometric and Time Series Models." *Journal of Agricultural and Applied Economics*, 26:334.
170. Brorsen, B.W., J. Coombs, and K. Anderson, 1993. "The Cost of Forward Contracting Wheat." *Applied Commodity Price Analysis, Forecasting, and Market Risk Management*, NCR-134 Conference, April 19-20, 1993, Chicago, IL, pp. 95-100.
171. Hamm, L.K. and B.W. Brorsen, 1993. "Forecasting Futures Prices with a Neural Network." *Applied Commodity Price Analysis, Forecasting, and Market Risk Management*, NCR-134 Conference, April 19-20, 1993, Chicago, IL, pp. 286-297.
172. Garrison, C.O., Brian D. Adam, B. Wade Brorsen, and Mike Dicks, 1993. "Grain Markets After the Conservation Reserve Program." *Applied Commodity Price Analysis, Forecasting, and Market Risk Management*, NCR-134 Conference, April 19-20, Chicago, IL, pp. 141-148.
173. Kang, T. and B.W. Brorsen, 1993. "GARCH Option Pricing with Asymmetry." *Applied Commodity Price Analysis, Forecasting, and Market Risk Management*, NCR-134 Conference, April 19-20, 1993, Chicago, IL, pp. 298-314.
174. Yang, Seung-Ryong and B. Wade Brorsen, 1993. "Price Limits as an Explanation of Thin-Tailedness in Pork Bellies Futures Prices." *American Journal of Agricultural Economics*, 75(5):1307.
175. Bailey, DeeVon, B. Wade Brorsen, and Michael R. Thomsen, 1993. "Feeder Cattle Buyer Market Areas." *American Journal of Agricultural Economics*, 75(5):1298.
176. Hamm, Lonnie and B. Wade Brorsen, 1993. "Forecasting Quarterly Hog Prices with Neural Networks." *American Journal of Agricultural Economics*, 75(5):1298.
177. Djunaidi, H., B.W. Brorsen, and D.S. Tilley, 1993. "Cointegration and Causality Tests in the Cocoa Market." *Journal of Agricultural and Applied Economics*, 25(1):278.

178. Garrison, Carl O., B. Wade Brorsen, Brian D. Adam, and Mike Dicks, 1993. "Recropping Rates of Conservation Reserve Program Acreage." *Journal of Agricultural and Applied Economics*, 25(1):283.
179. Brorsen, B.W. and J.-H. Lee, 1993. "Effect of Risk Aversion and Biased Expectations on Feeder Cattle Prices." *Journal of Agricultural and Applied Economics*, 25(1):285.
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181. Brorsen, B.W., 1992. "Optimal Hedge Ratios with Risk Neutral Producers and Imperfect Capital Markets." *American Journal of Agricultural Economics*, 74(5):1290.
182. Akridge, J.T., Sean Mauney, and B. Wade Brorsen, 1991. "Component Pricing of Pork." Paper presented at Second International Electronic Evaluation of Meat Conference, West Lafayette, IN.
183. Boyd, M.S. and B.W. Brorsen, 1991. "Causes of Futures Market Disequilibrium." presented at Northern Finance Association Meetings, Montreal, Canada, September 21-22.
184. Yang, S.R. and B.W. Brorsen, 1991. "Nonlinear Dynamics of Futures Prices." *Applied Commodity Price Analysis, Forecasting, and Market Risk Management*, NCR-134 Conference, pp. 16-31.
185. Mauney, Sean B., Wade Brorsen, and Jay T. Akridge, 1991. "A Component Pricing System for Pork." *American Journal of Agricultural Economics*, 73(5):1548.
186. Patterson, Paul and B. Wade Brorsen, 1991. "USDA Export Sales Report: Is It News?" *American Journal of Agricultural Economics*, 73(5):1533.
187. Bailey, DeeVon and B. Wade Brorsen, 1991. "Buyer Concentration in Feeder Cattle Markets." *American Journal of Agricultural Economics*, 73(5):1549.
188. Boyd, M.S. and B.W. Brorsen, 1990. "Asymmetry in Price Discovery of Livestock Prices." *Applied Commodity Price Analysis, Forecasting, and Market Risk Management*, Proceedings of the NCR-134 Conference, Chicago, IL, pp. 27-36.
189. Hall, Joyce A. and B. Wade Brorsen, 1990. "The Policy Implications of Corn and Soybean Acreage Response to Risk." *American Journal of Agricultural Economics*, 71(5):1346.
190. Boyd, Milton S. and B. Wade Brorsen, 1989. "Analysis of Returns from Computerized Technical Trading Strategies in Commodity Futures Markets." *International Futures Conference and Research Seminar*, 5:53-75.
191. Greer, Thomas and B. Wade Brorsen, 1989. "Execution Costs of Trading by a Public Futures Fund." *Applied Commodity Price Analysis, Forecasting and Market Risk Management*, Chicago, IL, pp. 147-160.
192. Yang, Seung Ryong and B. Wade Brorsen, 1989. "Generalized Autoregressive Conditional Heteroskedasticity as a Model of the Distribution of Futures Returns." *Applied Commodity Price Analysis, Forecasting, and Market Risk Management*, Chicago, IL, pp. 137-146.

193. Akridge, Jay T., Monte Vandever, B. Wade Brorsen, John Forrest, Mac Orcutt, and Allen Schinkel, 1989. "Economic Evaluation of Alternative Technologies to Determine Pork Carcass Value." *American Journal of Agricultural Economics*, 71(5):1359-1360.
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200. Lukac, L.P. and B.W. Brorsen, 1988. "Technical Trading Systems." *American Journal of Agricultural Economics*, 70(5):1195.
201. Hall, Joyce A. and B.W. Brorsen, 1988. "The Effect of Risk on the Rental Value of Agricultural Land." *American Journal of Agricultural Economics*, 70(5):1191.
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203. Bailey, DeeVon and B. Wade Brorsen, 1988. "Price Asymmetry in Spatial Fed Cattle Markets." *Southern Journal of Agricultural Economics*, 20(1):207.
204. Shapiro, B.I. and B. Wade Brorsen, 1987. "Factors Influencing Farmers' Decisions of Whether or Not to Hedge." NCR-134 Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, Chicago, IL, April 22, 23, pp. 229-239.
205. Moss, Charles B., Timothy G. Baker, and B. Wade Brorsen, 1987. "Effects of Changes in Macroeconomic Policy on Agricultural Prices." *American Journal of Agricultural Economics*, 69(5):1087.
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208. Brorsen, B. W., J.P. Chavas, and W.R. Grant, 1987. "A Time Series Approach to the Analysis of Factors Influencing Price Discovery." *American Journal of Agricultural Economics*, 69(5):1085.
209. Grant, Warren R., M. Edward Rister, and B. Wade Brorsen. "Impacts of Rice Quality on Rough Rice Prices." Paper presented at meetings of the Rice Technical Working Group sponsored by the Agricultural Experiment Stations of Arkansas, California, Louisiana, Mississippi, and Texas and ERS-USDA, Houston, TX, February 23-25, 1986.
210. Brorsen, B. Wade and Scott H. Irwin. "Has the Growth of Commodity Pools Affected Price Volatility?" Applied Commodity Price Analysis, Forecasting, and Market Risk Management Conference, NCR-134, St. Louis, MO, April 23, 1986.
211. Lukac, Louis P., B. Wade Brorsen, and Scott H. Irwin, 1986. "Similarity of Computer Guided Technical Trading Systems." *American Journal of Agricultural Economics*, 68(5):1373.
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225. Brorsen, B. Wade, Jean-Paul Chavas, and Warren R. Grant, 1983. "A Dynamic Analysis of Prices in the U.S. Rice Marketing Channel." *American Journal of Agricultural Economics*, 65(5):1182.
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227. Brorsen, B.W., O.L. Walker, G.W. Horn, and T.R. Nelson, 1981. "Economic Analysis of Alternative Stocker Cattle Production Systems Using a Mini-computer." *Southern Journal of Agricultural Economics*, 13:163.

#### **b. Invited Lectures**

- Brorsen, B.W. 2017. "Time Series Models of Cash and Futures Commodity Prices." Iowa State University. March 20.
- Brorsen, B.W. 2016. WAEA Presidential Address, Victoria, BC, Canada, July
- Brorsen, B.W. 2016. "Applied Econometrics Research." University of Illinois. May.
- Brorsen, B.W. 2016. "The Status of Applied Econometrics in Agricultural Economics." University of Arkansas. April 14.
- Brorsen, B.W. 2016. "Using Bayesian Spatial Smoothing and Extreme Value Theory to Develop Area-Yield Crop Insurance Rating." Mississippi State University, April 1.
- Brorsen, B.W. 2016. "The Future of Applied Econometric Methods." University of Tennessee. March 9.
- Brorsen, B.W. 2014. C-FARE Workshop on Futures, Options, and Swaps. U.S. Congressional staff, Washington, D.C.
- Brorsen, B.W. 2011. Texas A&M University. "Agent-Based Models."
- Brorsen, B.W. 2011. NCCC-134 30<sup>th</sup> Anniversary. St. Louis, MO.
- Brorsen, B. W. 2008. Keynote address. Western Agricultural Economics Association annual meeting. Big Sky, MT.
- Anderson, K.B., and B.W. Brorsen, 2006. "Marketing and Risk Management Strategies." *Energy in Agriculture: Managing the Risk*. Proceedings. June 27-28, Kansas City Missouri. Pp. 60-71.
- Brorsen, B.W. "Market Timing." Seminar presented at Texas A&M University, November 2005.

Brorsen, B.W. "Optimal Hedge Ratios." Seminar presented at University of Illinois, February 1999, Champaign, IL.

Brorsen, B.W. "Generic Meat Advertising: A Critique of Previous Studies." Seminar presented at Iowa State University, November 19, 1997, Ames, IA.

Brorsen, B.W. "Feeder Cattle Weight Slides." Seminar presented at Kansas State University, November 19, 1996, Manhattan, KS.

Brorsen, B.W. "Neural Networks." Seminar presented at Utah State University, August 16, 1993, Logan, UT.

Brorsen, B.W. "A Cox-Type Non-Nested Test for Time-Series Models." Seminar presented at The Ohio State University, May 27, 1993, Columbus, OH.

Brorsen, B.W. "A Lean Pork Pricing System." Seminar at University of Wisconsin-Madison, Madison, WI, January 14, 1990.

Brorsen, B.W. "New Developments in Time Series Analysis." Seminar at Indiana State University, Terre Haute, IN, March 13, 1989.

Also, presented seminars in the Departments of Agricultural Economics, Economics, and Statistics at Oklahoma State University.

## **7. HONORS AND PROFESSIONAL ACTIVITIES**

### **a. Citations in Bibliographic Works**

Who's Who in the Midwest  
Who's Who of Emerging Leaders in America  
Who's Who in America

### **b. Memberships in Academic, Professional, and Scholarly Societies**

American Agricultural Economics Association  
Southern Agricultural Economics Association  
Western Agricultural Economics Association

### **c. Rankings and Productivity Measures**

Cited over 1,000 times in the journals covered by the Web of Science Core Collection.

Over 6,000 citations in Google Scholar

Over 1,700 citations in Scopus

REPEC (<http://ideas.repec.org/f/pbr231.html>). Top 5% of authors in 10 different categories. January 2018.



Top 100 Most Frequently Published Author in 19 Finance Journals from 1988-2003 (T-#60). Keys, P.L., and P. Turner. "An Analysis of Finance Research Considering Gender and the Influence of Doctoral Advisors." 2005 Financial Management Association Conference, Chicago, IL. Available at <http://www.fma.org/Chicago/Papers/ResearchProductivityGender.pdf>.

Listed in Heck, J.L., and P.L. Cooley. 2009. "Most Prolific Authors in the Finance Literature: 1959-2008." [http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=1355675](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1355675). #198 in most prolific authors in 26 core finance journals.

Top 350 Most Prolific Author in 16 Core Finance Journals 1953-2002 (T-# 153); Top 367 Most Prolific Author in 72 Finance Journals 1953-2002 (#160). Heck, J.L., and P.L. Cooley. "Prolific Authors in the Finance Literature: A Half Century of Contributions." *Journal of Finance Literature* Winter 2005:40-62.

Top 1000 Author in Terms of Journal of Finance-Equivalent Pages in a Set of 16 Core Finance Journals (1990-2001)(#368)  
([www.acsu.buffalo.edu/~keechung/Top%201000%20authors%20in%20terms%20of%20JF.htm](http://www.acsu.buffalo.edu/~keechung/Top%201000%20authors%20in%20terms%20of%20JF.htm))

Top 100 Advisor (#42) of Ph.D. Students at the Top 22 Ph.D. Granting Agricultural and Resource Economics Programs from 1987-2000 (#8 in total articles)  
(<http://ageconsearch.umn.edu/bitstream/123456789/26888/1/ap07hi01.pdf>).

Top 500 Economists Based on the Number of Articles 1990-2000 (#289).  
(<http://student.ulb.ac.be/~tcoupe/update/authorsarticles.html>)

#### **d. Awards and Activities**

Agronomy Journal, Outstanding Reviewer Award, 2016

Western Agricultural Economics Association, President, 2016

Eminent Faculty Award, Oklahoma State University, 2014

Agricultural and Applied Economics Association (AAEA) Fellow, 2014

Western Agricultural Economics Association Distinguished Scholar, 2012

Tyrus R. Timm Honor Registry, Texas A&M Department of Agricultural Economics, 2011.

Outstanding Journal Article, Southern Agricultural Economics Association, 2011.

Editorial Board. *Encyclopedia of Alternative Investments*. CRC Press, 2009.

Coeditor, *Journal of Rural Development* (Korea), 2009-present.

*Regents Research Award*, Oklahoma State University, 2007.

Distinguished Alumni (Graduate School), Texas A&M University Department of Agricultural Economics, 2005

*Journal of Agricultural and Resource Economics* outstanding journal article, 2005.

Sarkey's Distinguished Professor Award: In Honor of Elmo Baumann. Division of Agricultural Sciences and Natural Resources. Oklahoma State University, 2004.

American Agricultural Economics Association Outstanding Graduate Teacher Award, 2004

Phoenix Award for Outstanding Graduate Teacher at Oklahoma State University, 2004.

Editor, *American Journal of Agricultural Economics*, 2002-2006.

Reviewed articles for the (1) *American Journal of Agricultural Economics*, (2) *Review of Agricultural Economics*, (3) *Journal of Agricultural and Resource Economics*, (4) *Journal of Agricultural and Applied Economics*, (5) *Agricultural and Resource Economics Review*, (6) *Agribusiness*, (7) *Journal of Agribusiness*, (8) *Agricultural Finance Review*, (9) *Journal of Futures Markets*, (10) *Review of Research in Futures Markets*, (11) *Journal of Production Agriculture*, (12) *Review of Regional Studies*, (13) *Southern Economic Journal*, (14) *Journal of Financial & Quantitative Analysis*, (15) *Canadian Journal of Agricultural Economics*, (16) *Computational Statistics*, (17) *Marine Resource Economics*, (18) *The Manchester School*, (19) *Iran Agricultural Research*, (20) *International Journal of Forecasting*, (21) *The Financial Review*, (22) *Australian Journal of Agricultural and Resource Economics*, (23) *International Review of Financial Analysis*, (24) *Applied Financial Economics*, (25) *Journal of Economics and Business*, (26) *Applied Economics*, (27) *Journal of Water Resources Planning and Management*, (28) *The Bovine Practitioner*, (29) *The European Journal of Finance*, (30) *Communications in Statistics*, (31) *Journal of Cereals and Oilseeds*, (32) *Journal of Agricultural, Biological, and Environmental Statistics*, (33) *Quarterly Review of Economics and Finance*, (34) *International Journal of Economic Sciences and Applied Research*, (35) *Journal of Applied Statistics*, (36) *Agricultura Tropica et Subtropica* (37) *IEEE Transactions on Neural Networks*, (38) *Land Economics*, (39) *Agricultural Economics*, (40) *European Review of Agricultural Economics*, (41) *Contemporary Economic Policy*, (42) *African Journal of Agricultural Research*, (43) *Applied Economics Policy and Perspectives*, (44) *Intelligent Systems in Finance, Accounting and Management*, (45) *Agronomy Journal* (46) *Journal of the Operational Research Society*, (47) *Agricultural and Forest Meteorology*, (48) *Journal of Economic Interaction and Coordination*, (49) *Nutrient Cycling in Agroecosystems*, (50) *Journal of Commodities*, (51) *Computational Economics*, (52) *European Journal of Agronomy*, (53) *Scientia Agricola*, (54) *Poultry Science*, and (55) *Economics Bulletin*.

Member, Editorial Council of the *North Central Journal of Agricultural Economics*, 1987 to 1990.

Member, Executive Committee of NCR-134 Regional Committee on Applied Commodity Price Analysis, Forecasting, and Market Risk Management, 1987-present; Co-chair, 1993, Chair 1994-97.

Invited speaker or participant for several seminars sponsored by the Chicago Board of Trade relating to research on commodity futures markets.

Editor, *Journal of Agricultural and Resource Economics*, 1994-97.

James A. Whatley Award for Meritorious Research in Agricultural Science, 1995.

Nominee for President, Western Agricultural Economics Association, 1998.

Awards won by students:

Niyizibi, Bart. Applied Risk Analysis Section, AAEA, Outstanding Student Paper, 2018

Park, Eunchun. Southern Agricultural Economics Association Outstanding Dissertation, 2018

Cowley, Cortney. Southern Agricultural Economics Association Outstanding Dissertation, 2016

Carlberg, Jared. Southern Agricultural Economics Association Outstanding Student Paper, 2002

Pebe, Edgar. DASNR Outstanding Dissertation, Social Science, 1999  
Hamm, Lonnie. Oklahoma State University's Research Excellence Award, 1995  
Kang, Taehoon. Oklahoma State University's Research Excellence Award, 1993  
Lee, Jung-Hee. Oklahoma State University's Research Excellence Award, 1993  
Kang, Taehoon. Southern Agricultural Economics Association's Outstanding Student Paper, 1993

## 8. LIST OF CREATIVE WORKS

None Applicable

## 9. GRANTS AND CONTRACTS

Noble Research Foundation 8/1/18-7/31/20, "Fellowship Barrett Moore." No collaborators.	\$50,000
USDA Cooperative Agreement 8/16/17-12/31/18, "Advancing the State of the Art for Long Run Livestock Projections for Baseline." Economic Research Service. No collaborators.	\$50,000
Noble Research Foundation 8/01/16-7/31/18, "Biedenbach Fellowship." No collaborators.	\$50,000
USDA Cooperative Agreement 58-3000-3-0045 Extension, 8/29/14-9/30/15, "Mandatory Price Reporting." Economic Research Service. No collaborators.	\$30,000
USDA Cooperative Agreement 58-3000-3-0045, 8/29/13-9/30/14, "Thin Market Issues in Livestock Markets." Economic Research Service. No collaborators.	\$30,000
Grant 1/1/14-12/31/15, "Determining the Long Term Performance of Petroleum Storage Tank Foundations Through the Use of Case Studies," American Petroleum Institute. Tyler Ley (Civil and Environmental Engineering, Oklahoma State),	\$153,055
Grant 12/10-1/11 MachineryLink Analysis. No collaborators.	\$2,886
Grant 1/11-9/15, Economics of Alternative Energy, Agricultural Management and Economics, Ph.D. Fellowships, USDA NIFA National Needs Graduate and Postgraduate Fellowships Program. F.M.Epplin, J.L. Lusk, R.B. Holcomb, B.D. Adam, and R.L. Huhnke	\$234,000
Grant 1/10-1/12, "Using Agent-Based Models to Better Understand the Effects of Changes in Agribusiness Market Structure" USDA Agricultural and Food Research Initiative, No collaborators.	\$140,034
Grant 9/08-8/13, "Food and Agricultural Sciences National Needs Graduate Fellowships in Agricultural Management and Economics." F.M.Epplin, J.L. Lusk, R.B. Holcomb, B.D. Adam, R.L. Huhnke, and Y. Wu.	\$234,000
Grant 7/07-6/09, "Spatial Analysis of Ramped Calibration Strip Data." Targeted Initiative Program. Randy Taylor, Stan Fimple, Roger Gribble, Bill Raun, John Solie, Brad Tipton, Jeffrey Vitale, and Bob Woods, collaborators.	\$22,000
Grant 7/06-6/08, "Economics of Precision Sensing Technologies in Oklahoma Wheat."	

Targeted Initiative Program. F.M. Epplin, J. Edwards, B. Raun, and J. Solie, collaborators.	\$27,392
Grant 7/02-6/03, "Wheat Producer Marketing Performance and Risk Management." Southern Region Risk Management Education Center, K. Anderson, collaborator. \$15,000	
Cooperative Agreement 10/00 – 9/02, "Theory of Cooperative Evolution: The Influence of Economic, Social, and Psychological Factors on Cooperative Formation and Producer Participation." USDA-Rural Business Cooperative Service, D. Tilley and B. Adam, collaborators.	\$51,519
Grant 3/99 - 2/01, "Agricultural Commodity Market Development Project." The World Bank and SEMOR, in cooperation with Republic of Turkey Ministry of Industry and Trade, Kim Anderson, project manager.	\$75,000
Grant 6/99 - 6/01, "Increasing the Accuracy of Option Pricing." Targeted Research Initiative Program, Charles Shen and Tim Krehbiel, collaborators.	\$23,100
Grant 10/98 - 9/99, "Restricted-Use Policies for Antimicrobial Agents in Swine Production," National Pork Producers Council, T. Lehenbauer, J. Connor, and L. Dawson, collaborators.	\$17,209
Grant 4/98 - 6/00, "Economics of Aglime Applications on Oklahoma Cropland," Targeted Research Initiative Program, F. Epplin, G. Johnson, H. Zhang, and E. Krenzer, collaborators.	\$14,400
Grant 4/98 - 6/00, "Developing a Multi-institution Proposal for Evaluating Market Structure Implications," Targeted Research Initiative Program, B. Adam, collaborator.	\$15,000
Grant 4/98 - 6/00, "The Overgrading of Peanuts," Targeted Research Initiative Program, K. Anderson, P. Kenkel, and R. Sholar, collaborators.	\$15,150
Grant 6/97 - 6/99, "Identification of Impediments to Efficiency in the Nonvertically Integrated Wheat Production, Marketing, and Processing System," Targeted Research Initiative Program, Francis Epplin, Brian Adam, Phil Kenkel, John Solie, and Thomas Peeper, collaborators.	\$22,900
Grant 3/97 - 2/99, "What Should Be Believed about Meat Generic Advertising?" Targeted Research Initiative Program, no collaborators.	\$12,500
Grant 7/94 - 12/97, " <i>Journal of Agricultural and Resource Economics</i> editorial office," Western Agricultural Economics Association, Dan Bernardo, collaborator	\$74,350
Grant 1/90 - 6/94, "Food, Forest Products, or Agribusiness Marketing," CSRS National Needs Fellowships, Jay Akridge, collaborator.	\$144,000
Grant 11/89 - 11/91, "Applications of Electromagnetic Scanning for Prediction of Beef Carcass Composition," Indiana Commissioner of Agriculture, J.C. Forrest and M.D. Judge, collaborators.	\$37,160
Grant 7/88 - 6/90, "Optimization of Swine Production Systems for Animals with Different Genetic Potential under Alternative Market Prices of Leanness," Family Farms -	

AES, Tim Baker, Paul Preckel, Terry Stewart, and Al Schinkel, collaborators.	\$70,000
Grant 7/88 - 6/90, "Economic Evaluation of Alternative Technologies to Determine Pork Carcass Value," National Pork Producers Council, Jay Akridge, collaborator.	\$36,600
Grant 4/85 - 1/86, "Similarities of Computer-Guided Technical Trading Systems," Columbia University Center for the Study of Futures Markets, no collaborators.	\$6,000
Grant 2/85 - present, "Technical Trading Systems," Purdue AES Assistantship Funds, no collaborators	\$14,000
Grant 12/84 - 8/85, "Relationship between Public Futures Funds and Price Volatility," Chicago Board of Trade, no collaborators.	\$7,000
Grant 2/84 - 12/86, "Dynamic Relationship of Prices in the Beef and Pork Marketing Channels," Purdue AES Assistantship Funds, no collaborators.	\$12,500
Grant 10/83 - 8/84, "Evaluation of Public Futures Funds," Columbia University Center for the Study of Futures Markets, no collaborators.	<u>\$ 7,000</u>
<b>TOTAL</b>	<b>\$1,643,755</b>

## 10. MAJOR OUTSIDE ACTIVITIES

<u>Date</u>	<u>Client</u>	<u>Nature of Activity</u>	<u>Scope of Project</u>
2015	Triangle Insurance	Damage Calculation	Damages from Rumensin toxicity
2015	Concerned Scientists	Report	Biodiesel feedstock supply
2014-15	Wilguess and Garrett	Consultant	Interest calculation – Oil and gas
2010	Machinery Link, Inc	Consultant	Business strategy
2006-15	Barbara Ley, CPA	Consultant	Advanced data management
2006	Barometer Capital	Consultant	Technical Advice
2003-2005	Kutak Rock, et al.	Affidavit	Herman Schumacher, Michael P. Callicrate and Roger D. Koch vs. IBP, Inc., Excel Corporation, Swift Beef Company, and National Beef Packing Company, L.L.C. Case No. CIV 02-1027, U.S. District Court for the District of South Dakota Southern Division
2003-2005	Barbara Ley, CPA	Damage calculations	Nations Bank case
2000	Barbara Ley, CPA	Damage calculations	One-month project calculating damages under various scenarios

2000-2001	Barnes and Lewis, P.C.	Deposition	Bridenstine v. Kaiser-Francis, et.al. Case No. CJ-2000-1, Texas County
1999	Price Waterhouse Coopers	Air Force PMEL bid project	Created models to estimate transportation costs and wrote section of proposal
1998	Price Waterhouse Coopers	Support of the successful Oklahoma City Air Logistics Center bid for the San Antonio Workload	Evaluated methods to predict overhead costs. Proposed and implemented more precise methods. Helped rewrite proposal and respond to evaluation notices.
1996-97	Foundation for Managed Derivatives Research	Persistence in Commodity Trading Advisor's Returns	Developed new methods and analyzed monthly data for fifteen years and over 2,000 funds and CTAs. Prepared report for FMDR.
1990	Livestock Pricing Institute at VPI through Utah State University	Concentration in Feeder Cattle Auctions	Analyzed data from satellite video cattle auctions and regional cattle auctions. Prepared report for General Accounting Office.
1988	Central Soya	Soybean Oil Basis	Evaluated a Chicago Board of Trade study about performance of the soybean oil futures contract and presented report.
1983-84	Texas Rice Research Foundation	Value of Rice Quality Factors	Analyzed data on sales from six rice auction markets and prepared report.

## 11. UNIVERSITY AND PROFESSIONAL SERVICE:

### a. Departmental Committees

<u>Name</u>	<u>Years</u>	<u>Assignment</u>
Preliminary Examinations (OSU)	1991-present	Member, Chairman, 1995-97
Curriculum Review	1998-present	Member, Co-chair 2000-present
Faculty Committee	2008-2013	Member, Chair 2012-2013
Seminar Committee	2006-present	Member, Chair 2009
Graduate Admissions Committee	2018-present	Chair
Faculty Communications Committee	2007-2009	Member, Chair 2009
Retreat planning committee	2009	Research chair
Retreat planning committee	2008	Research chair

Department Head Search Committee	2006	Member
Crop Production Search Committee	2006	Member
Retreat Planning Committee	2006	Research and Overall Chair
Finance/Production Search Committee	2005	Member
Awards Committee	2002-3	Member
Bulletin Board Committee	2002-5	Member
Sparks Chair Search Committee	2001-5	Co-chair
Department Head Search Committee	1999	Chair
Production/Natural Resources Search Committee	1999	Member
Graduate	1997-99	Member
Retreat Planning Committee	1996	Member
Faculty Forums	1995-96	Member
CSRS Graduate Programs Committee	1992	Member
Marketing Work Group	1991-1994	Member, Chairman 1993
Preliminary Examinations (Purdue)	1990-91	Chairman
Ph.D. Dissertation Award	1989	Member
Ad hoc Committee on Graduate Student Funding	1988	Member
Graduate	1986-89	Member
Econometrics Preliminary Examination	1986-87	Chairman
David Ross and AES Proposal Evaluation	1986	Member
Price Analysis Preliminary Examination	1985, 1988	Member; Chairman, 1988
Applied Economics Examination	1985-86	Member
M.S. Thesis Award	1984	Member

#### **b. College Committees**

Whatley Research Award Committee	1996-99, 04-06	Member
Ad Hoc Committee on Extension Funding Formula	1997	Member

#### **c. University**

OSU-OKC Grievance Committee	1997	Member
Faculty Council Research Committee	1997	Member
OARU Jr. Faculty Enhancement Awards		
Program Review Committee	1998-2000	Member
Quantitative Financial Economics M.S.	2000-present	Member, Executive Committee
NCA Re-accreditation Criterion IV Subcommittee	2003-2004	Member
Regents Research Award	2008	Member
Regents Research Award	2010	Member
Eminent Scholar Award	2010-2011	Member
Regents Professor Selection	2012-2014	Member
Homecoming Royalty Selection	2014	Phase one grading
Eminent Scholar Award	2015	Chair

#### **d. National and Regional Committees**

AAEA Distinguished Policy Contribution Award	1987-89	Chair, 1988-89
AAEA Selected Papers	1991	Topic Leader, Marketing
WAEA Executive Committee	1994-97	Member
WAEA Finance Committee	1994-97	Member

Pork Check-Off Evaluation Design Group	1997	Member
SAEA Selected Papers	1998	Topic Leader, Quantitative Methods
AAEA Economic Statistics and Information Resources Committee	1998-2001	Member
U.S.-Israel Bi-national Agricultural Research and Development Fund	1998-2000	Agric. Econ. Chair
IFAS Proposal Review	2000	Member
GAO Livestock Pricing Panel of Experts	2001	Member
AAEA Research Discovery Award	2001-2003	Member
AAEA Executive Committee	2001-2005	Ex-officio member
AAEA Risk Analysis Section	2008-2011	Director-at-Large
WAEA Outstanding Published Research	2014	Chair
AAEA Fellows Selection Committee	2016	Member

## 12 INTERNATIONAL PROGRAM

October 2002, Spent two weeks in Turkey working on the Agricultural Commodity Market Development Project.

## 13. EXTENSION PROGRAM ACTIVITIES – No Formal Extension Appointment

Brorsen, B.W. 2017. “Wheat Production.” Outlook Conference. Stillwater, OK.

Maples, J., and W. Brorsen. 2015. “The Forage Insurance Program: How Does It Work and When Does It Pay? Grazing Workshop: Winter Pasture. The Samuel Roberts Noble Foundation, Ardmore, OK, April 7.

Anderson, K., W. Brorsen, and T. Do. 2008. “When, Where and Price Impact of World Wheat Harvest.” Presentation to Oklahoma Grain & Feed Association, November 8.

Brorsen, B.W. “Oklahoma Land Values.” Presentation to Farm Credit Services, East Central Board of Directors, May 25, 2007, Stillwater, OK.

Brorsen, B.W. “Research on Oklahoma Land Values,” Presentation to American Society of Farm Managers and Rural Appraisers - Oklahoma Chapter meeting, October 4, 2007, Stillwater, OK.

## 14. TEACHING PROGRAM ACTIVITIES

### a. Courses Taught with Formal Evaluation

Oklahoma State			(4.0 Maximum)		
Year	Course	No. Students	Instructor <sup>a</sup>	Course <sup>a</sup>	
2018	AGEC 6403	11	4.7	3.7	Instructor is 5.0 max
2017	AGEC 6213	19			
2017	AGEC 4333	37			
2016	AGEC 6403	16			
2015	AGEC 6213	19	3.7	3.8	
2015	AGEC 4333	46	2.9	3.3	
2014	AGEC 4333	36	3.6	3.6	
2013	AGEC 4333	34	3.3	3.4	



2013	AGEC 6213	17	3.6	3.8
2012	AGEC 6403	11	3.8	3.9
2012	AGEC 4333	33	3.6	3.5
2011	AGEC 6213	22	3.8	3.8
2011	AGEC 4333	31	3.4	3.7
2010	AGEC 6403	18	3.6	3.7
2010	AGEC 4333	29	2.7	3.1
2009	AGEC 4333	18	3.4	3.6
2009	AGEC 6213	19	3.8	3.9
2008	AGEC 6403	12	3.8	3.9
2008	AGEC 4333	25	3.1	3.4
2007	AGEC 6213	10	3.7	3.7
2007	AGEC 4333	29	2.7	3.1
2006	AGEC 6403	10	3.4	3.6
2006	AGEC 5101	9	3.5	3.6
2005	AGEC 5101	6	3.5	3.7
2005	AGEC 6213	20	3.7	3.8
2004	AGEC 6403	6	3.5	3.8
2003	AGEC 6213	13	3.9	3.7
2003	AGEC 5101	15	3.7	3.5
2002	AGEC 6403	7	3.9	3.8
2002	AGEC 5101	6	3.8	3.7
2001	AGEC 6213	15	3.1	3.3
2001	AGEC 5101	12	3.0	3.2
2000	AGEC 6103	10	3.8	3.7
2000	AGEC 5101	13	na	na
1999	AGEC 6213	28	3.4	3.6
1999	AGEC 5101	12	3.1	3.2
1998	AGEC 6103	14	3.5	3.7
1998	AGEC 5101	15	3.3	3.1
1997	AGEC 6213	26	3.6	3.7
1997	AGEC 5101	18	3.5	3.4
1996	AGEC 6103	8	3.8	3.5
1996	AGEC 5101	14	3.0	3.3
1995	AGEC 6213	11	3.4	3.4
1995	AGEC 5101	8	3.4	3.4
1994	AGEC 6103	11	3.3	3.4
1994	AGEC 5101	7	3.0	3.0
1993	AGEC 5101	17	3.5	3.4
1993	AGEC 6213	13	3.7	3.6
1992	AGEC 5101	14	3.5	3.5
1992	AGEC 6213	6	3.8	3.8

<sup>a</sup>Average of seven questions.

**Purdue**

University Core Question Ratings (5.0 Max.)

Year	Course	No. Students	Motivation	Explanation	Assmts.	(Mean) Course	Instr.
1990	AGEC 651	9	4.1	4.1	4.3	4.0	4.6
1990	AGEC 320	91	2.8	2.9	3.1	2.6	2.4

1988	AGEC 690G	6	4.8	4.8	4.8	4.7	4.8
1988	AGEC 651	13	4.6	4.6	4.5	4.5	4.6
1987	AGEC 651	9	3.9	3.6	3.6	3.5	3.3
1986	AGEC 651	12	4.4	4.4	4.3	4.3	4.3
1985	AGEC 651	6	4.2	3.8	4.5	3.7	3.7
1984	AGEC 651	12	4.5	4.1	4.5	4.1	3.3
1983	AGEC 651	14	3.7	3.6	3.8	3.4	3.5

Also taught special problems courses (AGEC 499 (twice) and AGEC 699) which were an undergraduate thesis on intraday futures price movements, an undergraduate thesis on the optimal portfolio of commodities for a public futures fund, and an investigation of the profitability of investments in public futures funds.

**b. Undergraduate Advisees - 0**

**c. Graduate Student Committee Activities**

PhD Theses Supervised/ Student's First/Early Job(s)

Banga, Jasdeep. "Machine Learning: A Potential Forecasting Tool." December 2017. [Senior Risk Manager, Key Bank, Cleveland, OH]

Park, Eunchun. "Three Essays on Insurance and Options in Agricultural Economics." May 2017. [Assistant Professor, Mississippi State University]

Maples, Joshua G. "Rainfall Forage Insurance, Steak Size, and Time Series Modeling of Cash and Futures Prices." December 2016. [Assistant Professor, Mississippi State University]

Kim, Seonwoong. "Cross Hedging Canola, Forecasting Urea Price, and Effects of Social Pressure on Organic Food Purchases." December 2015. [Postdoctoral assistant, Oklahoma State University; Korea Rural Economics Institute; Assistant Professor, Chung-buk National University, Korea]

Ouedraogo, Frederic. "Crop Yield Response Models and Fertilizer Applicator's Efficiency." PhD dissertation, May 2015. [American Veterinary Medical Association]

Cowley, Cortney. "Anaerobic Digester Adoption on Animal Feeding Operations." PhD dissertation May 2015. [Federal Reserve Bank of Kansas City]

Seok, Juheon. "Calendar Spread Options for Storable Commodities." PhD dissertation, December 2013. [Korean Energy Economics Institute]

Lee, Yoonsuk. "Impacts of Permanent and Temporary Shocks on Optimal Length of Moving Average to Forecast a Time Series." PhD dissertation, May 2013. [Postdoctoral assistant, Arkansas State University; Korea Maritime Institute; Assistant Professor, Kangwon National University, Korea]

Boyer, Christopher N. "Agent-Based Common-Value Auctions." PhD dissertation. December 2011. [Assistant Professor, University of Tennessee]

Shah, Samarth. "Essays on Liquidity in Futures and Options Markets." PhD dissertation. July 2011. [Senior risk management analyst, Barri Financial Group, Houston, TX]

Tumusiime, Emmanuel. "Selecting among Alternative Production Functions, Effect of Lime Cost on Optimal Nitrogen Levels and Vertical Integration in the West African Cotton Sector." PhD dissertation, July 2011. [Agricultural Researcher, Oxfam America, Washington DC]

Roberts, David Carlos. "Preferences for Environmental Quality Uncertainty and the Value of Precision Nitrogen Application." PhD dissertation, July 2009. [Assistant Professor, North Dakota State University]

Zhang, T. "Agent-Based Artificial Markets." PhD dissertation, Oklahoma State University, July 2008. [Assistant Professor, Southwest University of Finance and Economics, Chengdu, China]

Kim, H.S. "Making Grain Price Decisions Based on Profit Margin Hedging and Real Option Values." PhD dissertation, Oklahoma State University, July 2008. [Research Assistant Professor, North Dakota State University; Korean Energy Economics Institute; Assistant Professor, Kyungpook National University, Korea]

Hamm, Lonnie Kent. "A Comparison of Stochastic Global Optimization Methods: Estimating Neural Network Weights." Ph.D. dissertation, Oklahoma State University, August 2003. [Futures trading, Koch Industries, Houston, TX; Senior Vice President, Straumur Investment Bank, London, UK]

Yoon, Byung Sam. "Essays on Rollover Hedging, Value of Increasing Kernel Uniformity, and Market Inversion in Commodity Futures Prices." Ph.D. dissertation, Oklahoma State University, December 2000. [Research Director, Korean Futures Association; Assistant Professor, Chungbuk National University, Korea]

Buguk, Cumhur. "Three Essays on Price Analysis, Market Efficiency, and Commodity Exchanges." Ph.D. dissertation, Oklahoma State University, December 2000. [Post doctorate, Mississippi State University; Assistant Professor, Gaziosmanpasa University, Turkey]

Richter, Francisca. "Expected Fees for Managed Futures, Optimal Feeder Cattle Price Slides, and Aggregate vs. Disaggregate Data in Measuring School Effectiveness." Ph.D. dissertation, Oklahoma State University, December 2000. [Research Economist, Federal Reserve Bank of Cleveland]

Ji, Dasheng. "A General Lattice Approach to Pricing American Options with Nonlognormal Distributions." Ph.D. dissertation, Oklahoma State University, December 2000. [Vice President and Senior Quantitative Analyst, Fifth Third Bank, Cincinnati, OH]

Pebe Diaz, Edgar F. "Refining the U.S. Peanut Grading System." Ph.D. dissertation, Oklahoma State University, December 1999. [Economist, Ministry of Economy and Finance, Peru]

Harri, Ardian. "Overlapping Data and Hedge Funds." Ph.D. dissertation, Oklahoma State University, December 1999. [Econometrician, Toyota Motor Credit Corporation; Assistant Professor, Mississippi State University]

Townsend, John P. "Performance Persistence in Managed Futures Funds." Ph.D. dissertation, Oklahoma State University, July 1998. [Assistant Professor, Panhandle State University]

Coulibaly, Nouhoun. "Essays on Nonnested Hypothesis Testing, Optimal Price Slides in Feeder Cattle Contracts, and Generic Meat Advertising." Ph.D. dissertation, Oklahoma State University, July 1997. [Research development, Côte d'Ivoire]

Arias, Joaquin. "A Dynamic Optimal Hedging Model Under Price, Basis, Production, and Financial Risk." Ph.D. dissertation, Oklahoma State University, December 1995. [Inter-American Institute for Cooperation, Costa Rica]

N'Zue, Felix Fofana. "Success and Failure of Agricultural Futures Contracts, How to Best Predict Semivariance, and GARCH Option Pricing with Implied Volatility." Ph.D. dissertation, Oklahoma State University, August 1995. [Cooperative Institute for Research on Environmental Sciences, Côte d'Ivoire]

Kang, Taehoon. "GARCH Option Pricing, Valuing the Target Price Support Program, and a New Efficiency Criterion." Ph.D. dissertation, Oklahoma State University, August 1993. [Private industry; Assistant Professor, Keimyung University, Korea]

Lee, Jung-Hee. "Non-nested Tests and Agricultural Trade Models." Ph.D. dissertation, Oklahoma State University, May 1993. [Post-doctorate, North Dakota State University; Assistant Professor, Chung-Ang University, Korea]

Boyd, Milton Selman. "Disequilibrium in Commodity Futures Markets." Ph.D. dissertation, Purdue University, May 1991. [Assistant Professor, University of Manitoba]

Yang, Seung Ryong. "The Distribution of Speculative Price Changes." Ph.D. dissertation, Purdue University, December 1989. [Research Scientist, North Dakota State University; Korean Rural Economics Institute; Assistant Professor, Korea University]

Hall, Joyce A. "The Effect of Risk on the Distribution of Benefits from Farm Programs and Land Values." Ph.D. dissertation, Purdue University, May 1989. [Assistant Professor; Colorado State University]

#### M.S. Theses Supervised/ Student's First Job

Biedenbach, Abby M. "Feral Hogs, the Rainfall Index Annual Forage Program, and Pecan Irrigation." MS thesis. July 2018. [PhD program, Oklahoma State University]

Hu, Zhepeng. "Spatial Price Efficiency in the Urea Market." MS thesis, Oklahoma State University, July 2014. [PhD research assistant, University of Illinois]

Milacek, Trent. "How Much Would It Be Worth to Know the WASDE Report in Advance?" MS thesis, Oklahoma State University, December 2013. [NW District Agricultural Economist, Oklahoma State University]

Zakrewicz, Christopher John. "Measures and Forecasts of Agricultural Land Values." MS thesis. Oklahoma State University, December 2010. [Assistant operations manager, Stampede Farms LLC, Oklahoma City, OK; Rabobank]

Hatchett, Robert Braden. "Moving Average Basis Forecasting in the Presence of Structural Change." MS thesis. Oklahoma State University, May 2009. [Risk analyst, Gaviion, Omaha, NE; Informa Economics, Memphis, TN]

Klumpp, J.M. "Using Actual Producer Transactions to Determine Producer Market Timing." MS thesis, Oklahoma State University, July 2005. [Credit analyst, US Bank]

Cunningham, Lewis Theophilus. "Explaining Differences in Prices Received by Farmers: Testing Theory Based on Actual Farmer Transactions." MS thesis, Oklahoma State University, December 2004. [Senior credit specialist, Bank of Oklahoma; Controller, Johnston Enterprises, Enid, OK]

Kidd, Willis Victor. "Can Structural Change Explain the Decrease in Returns to Technical Analysis?" M.S. Thesis, Oklahoma State University, July 2002. [Peace Corps, Moldova; Grain analyst, Louis Dreyfus Corporation]

Tostão, Emilio. "Spatial Arbitrage Efficiency and Maize Price Dynamics in Mozambique." M.S. Thesis, Oklahoma State University, May 2002. [PhD student, Oklahoma State University; Assistant Professor, University of Eduardo Mondlane, Maputo, Mozambique]

Buck, Darren W. "Hedging Hard Red Winter Wheat: Kansas City vs. Chicago." M.S. thesis, Oklahoma State University, July 1996. [Planning analyst; Pioneer HiBred; VP Fowler State Bank, KS]

Hamm, Lonnie. "Testing a Neural Network's Ability to Predict Futures Prices." M.S. thesis, Oklahoma State University, July 1995. [PhD student, Oklahoma State University]

Mauney, Sean. "Economic Evaluation of Alternative Technologies to Determine Pork Carcass Value." M.S. thesis, Purdue University, August 1991. [Plant superintendent, Stokely, USA]

Lukac, Louis P. "Similarities of Technical Trading Systems and Market Efficiency Implications." M.S. Thesis, Purdue University, December 1985. [Futures trading with technical analysis, Dunn & Hargitt]

#### Served as Major Professor

Completed M.S.	15 (two nonthesis)	M.S. in process	2
Completed Ph.D.	28	Ph.D. in process	4

In addition to serving on the advisory committee of graduate students, Dr. Brorsen advises graduate students on statistical problems. He also has advised students on how to write resumes, conduct successful interviews, and present seminars. He has motivated and assisted numerous students to publish their work.

#### **e. Teaching Publications and Presentations**

Brorsen, B.W., 2006. "Thoughts on Teaching Success." Teaching Effectiveness Workshop. Division of Agricultural Sciences and Natural Resources, Oklahoma State University, Stillwater, OK, August.

Brorsen, B.W., 2006. "Teaching Applied Econometrics." AAEA Teaching Academy Preconference, Long Beach, CA.

Brorsen, B.W., 2005. "Thoughts on Teaching Success." Organized Symposium, American Agricultural Economics Association Annual Meeting, Providence, RI.

#### **e. Other**

Statements selected from recent student evaluations regarding course's Dr. Brorsen has taught  
"The best I have taken at three universities over 12 years."  
"I learned more than I ever have in another class."

“Thank you. One of the most difficult and enjoyable classes I have ever had.”  
“It’s an amazing leap in one’s knowledge level before and after the course.”  
“It should be required for everyone.”  
“Extremely important for my professional career.”  
“I am too happy to take this course because I learned a lot. Thanks Agric. Econ. Department and professor for offering these kind of classes that most universities do not offer.”  
“One of the most interesting and excellent courses I have taken in the U.S.A.”  
“Adds quality to every thesis!”  
“Very helpful. I learned in this course.”  
“Highly recommended and tough.”  
“Excellent”  
“Extremely useful.”  
“This is by far the most challenging course I’ve ever taken.”  
“A must take course for all grad students of economics at OSU!”  
“This class was by far the one AGECEC class I received the most from.”  
“Probably the most valuable course I have taken.”  
“Great class. The best econ class in the department.”  
“The best course I have ever taken.”  
“Best class I have taken.”  
“Great course – learned a lot.”  
“Probably the most rewarding course I’ve taken so far”

*Statements selected from recent student evaluations of Dr. Brorsen relating to the quality of instruction*

“Dr. Brorsen is an outstanding teacher. I will never be able to repay him for his efforts.”  
“Dr. Brorsen did an excellent job of asking the right question to me to figure it out myself.”  
“Class environment was very student friendly, which is conducive to learning-Thank you”  
“Excellent instruction, well organized, well prepared, delivered in an understandable manner.”  
“Exceptionally knowledgeable about this material and a lot of related stuff.”  
“Very masterful – lots of patience with this class.”  
“Very dedicated and helpful.”  
“Generous with his time. Accommodating to student needs.”  
“The best in Ag Econ.”  
“Excellent job.”  
“Motivates his students.”  
“Excellent instructor.”  
“You are the best.”  
“Professor is a bit too much meticulous, but is a very good professor.”  
“His availability and willingness to answer questions is great.”  
“Excellent.”  
“Brilliant.”  
“Good teacher. Cares about doing the right thing even when it is unpopular.”  
“Very knowledgeable. Very good at explaining a very difficult subject.”  
“A wealth of knowledge.”  
“Highly knowledgeable.”  
“He really read our work.”  
“Very knowledgeable and well organized.”  
“Dr. Brorsen is a dedicated instructor who really cares for the students.”  
“Great teacher. I really enjoyed the class and learned a lot.”  
“Fantastic, you can tell he enjoys what he does and is extremely helpful.”  
“Extraordinary knowledge, very helpful.”  
“Dr. Brorsen ... has developed a fine strategy of educating mixed with challenge”  
“Taught more than memorization”

“Very difficult course”

### Teaching Innovations

Dr. Brorsen works closely with students enrolled in his econometrics class to ensure that they select a potentially publishable topic for their term paper. In addition, he requires them to revise their papers to take into account the constructive criticism that he gives them. About one-third of the students have published papers that were developed in connection with his class.

In addition, those who have not published their papers have gained valuable experience in learning how to write for professional journals and other scholarly publications.

### Participation in Teaching Improvement Activities

Dr. Brorsen has participated in the following programs to improve his teaching:

<u>Program</u>	<u>Sponsor and Location</u>	<u>Date</u>
Effective Teaching Workshop	College of Agricultural Sciences and Natural Resources, Oklahoma State University	March 26, 1992
College Teaching Workshop	Center for Instructional Services, Purdue University	Summer 1986
American Agricultural Economics Association (AAEA) Teaching Workshop	AAEA, Purdue University	July 28-30, 1983

## **15. RESEARCH PROGRAM ACTIVITIES**

“Improving the Efficiency of Agricultural Decisions” 2014 OKL02939

“Improving the Efficiency of Agricultural Market Transactions” 2009 OKL02766

“Improving the Efficiency of Farmer Marketing.” 2003, OKL02170

“Improving the Efficiency of Markets and Institutions.” 1997, OKL02170

“Improving Efficiency of Agricultural Markets.” 1991, OKL02170

“Efficiency of Agricultural Markets.” 1988, INDO45033

“Factors Influencing the Pricing of Agricultural Commodities.” 1984, INDO45033