

Daniel M. O'Brien

KSU Northwest Research Extension Center
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EXPERIENCE

Professor, Kansas State University, Department of Agricultural Economics.

Extension Agricultural Economist - Northwest Research Extension Center. K-State Research and Extension, Colby, Kansas. January 2020 – Present.

Associate Professor, Kansas State University, Department of Agricultural Economics.

Extension Agricultural Economist - Northwest Research Extension Center. K-State Research and Extension, Colby, Kansas. January 2007 – December 2019.

Associate Professor, Kansas State University, Department of Agricultural Economics.

Extension Area Administrative Director - Northwest Kansas, Kansas State University, K-State Research and Extension, Colby, Kansas. June 2003 – December 2006.

Associate Professor, Kansas State University, Department of Agricultural Economics.

Extension Agricultural Economist - Northwest Research Extension Center, Kansas State University, K-State Research and Extension, Colby, Kansas. 1999 – May 2003.

Assistant Professor, Kansas State University, Department of Agricultural Economics.

Extension Agricultural Economist - Northwest Research Extension Center, Kansas State University, K-State Research and Extension, Colby, Kansas. 1995 – 1999.

Extension Farm Management Field Specialist – Northwest / West Central Iowa Extension Service, Iowa State University, Onawa, Iowa 1993 – 1995.

Extension Associate - Agricultural Marketing, Iowa State University, Ames, Iowa - Department of Economics, 1988 – 1993.

Graduate Assistant - Extension Agricultural Marketing, Iowa State University, Ames, Iowa - Department of Economics. 1987 – 1988.

Extension Agent - Agriculture & Chair - Pierce County Extension - Nebraska Cooperative Extension Service, University of Nebraska, Pierce, NE. 1983 – 1987.

Extension Agent - Agriculture & 4-H Youth - Lincoln County Extension – Nebraska Cooperative Extension Service, University of Nebraska, North Platte, NE. 1981 – 1983.

Graduate Assistantship – University of Nebraska, Lincoln, NE. Department of Agricultural Economics. 1979 - 1980

EDUCATION

Ph.D., Agricultural Economics, 1993 – Iowa State University, Ames, Iowa

Ph.D. Dissertation: Forecasting the probability distribution of U.S. harvest time average corn prices

M.S., Agricultural Economics, 1980 – University of Nebraska, Lincoln, Nebraska

M.S. Thesis: The effect of agricultural cooperatives on rural fertilizer markets

B.S., Agricultural Economics, 1978 – University of Nebraska, Lincoln, Nebraska

AFFILIATIONS

Agricultural and Applied Economics Association (AAEA)

Western Agricultural Economics Association (WAEA)

PROFESSIONAL SERVICE

Editorial Team Member for the *Western Economics Forum (WEF)* affiliated with the Western Agricultural Economics Association (WAEA)

– Co-lead editor for the Fall 2018 WEF issue focusing on “*Beef Management and Marketing*”

– Co-lead editor for the Fall 2020 WEF issue focusing on “*Adding Economic Value – Increasing Farm and Community Prosperity in the Western U.S.*”

Associate Editor for the *Agronomy Journal (AJ)*: 2008 through 2020 (38 reviews, 2 in 2020)

Reviewer for *the Journal of Applied Farm Economics*, 2020 (1)

Reviewer for *the Journal of Field Crops Research*, 2020 (1)

Reviewer for *the Journal of Agricultural and Resource Economics (JARE)*, 2017 (1), 2019 (1)

Reviewer for *Agricultural Systems*, 2019 (1 article)

Reviewer for *Transactions of the ASABE*, 2015 (1), 2019 (1)

Reviewer for *The Energy Journal*, 2014 (1 article)

UNIVERSITY and DEPARTMENT COMMITTEES

Briggeman, Brian, Daniel O’Brien and Jody Wendt. *Economics Assessment of Kansas Agricultural and Rural Industries and Investments*. Report prepared for Ernie Minton, Dean of the College of Agriculture, Director of K-State Research and Extension, 2020.

Search Committee Co-Chair for the *Western Kansas Agricultural Research Center Administrator Position Search Committee*, 2020.

Search Committee Member for the *Northwest Extension 4-H Youth Development Specialist Position Search Committee*, first search in 2019 (failed search), second search failed in 2020.

Search Committee Member for the *Northwest Extension Family and Consumer Sciences Specialist Position Search Committee*, 2017-early 2018.

Search Committee Member for a Northwest Kansas Farm Management Association *Extension Agricultural Economist Position*, November-December 2017.

Chair of Search Committee for the *Southwest Extension Agricultural Economist Position Search Committee*, 2014-2015.

KSRE Extension Area-Multicounty Specialist DCOP Committee (Departmental Committee on Planning), 2009-2016.

Co-Chair of the *KSU Extension Farm Management PFT (Program Focus Team)*, 2014.

Chair of the *Northwest Extension Agronomy Specialist Search Committee*, 2013.

Chair of the *Northwest Extension Livestock Specialist Search Committee*, 1996.

HONORS

“2017 Outstanding Program Focus Team Award – Farm Management PFT”, Kansas State University, *KSRE Annual Conference*, Manhattan, KS. November 2, 2017.

“2017 ASA Extension Educational Materials Award – 2016 Soybean Production Handbook”, American Society of Agronomy, *ASA-CSSA-SSSA Annual Meeting*, Tampa, Florida. October 22-25, 2017.

“Extension Service – 35 Years” Award. Presented to Daniel O’Brien by Kansas State University at the 2016 *KSRE Annual Conference*, Manhattan, KS, October 27, 2016.

“2015 Team Award - Farm Bill Education Team”, Kansas State University, *KSRE Annual Conference*, Manhattan, KS. October 20-22, 2015.

“Communicator of the Year” Award. Presented to Daniel O’Brien by the Kansas ACE Chapter, K-State Department of Communications at the *KSRE Annual Conference*, Manhattan, KS. October 23, 2014.

“Extension Service – 30 Years” Award. Presented to Daniel O’Brien by Kansas State University at the *KSRE Annual Conference*, Manhattan, KS, October 18, 2012.

“Outstanding Electronic Media Education Award” Award. Presented by the AAEA Extension Section for the K-State AgManager.info Website. Team members: R. Llewelyn, K. Dhuyvetter, G.A. Barnaby, D. O’Brien, T. Dumler, M. Langemeier, T. Schroeder, and A. Goheen. Award given by the Extension Section at the *AAEA Annual Meeting* in Denver, CO. July 25-27, 2010.

“Horizons Award for Young Extension Faculty” Award. Presented to Daniel O’Brien by the Epsilon Sigma Phi National Honorary Extension Fraternity, Kansas State University Chapter at the *KSRE Annual Conference*, Manhattan, KS, November 6, 1977.

“Team Achievement” Award for the 0-92 Farm Program Farm Management Education Program. Presented to members of the Farm Management Team in Northwest/West Central Iowa

(including Daniel O'Brien) by Iowa State University Extension at the *ISU Annual Conference*, Ames, IA. 1993.

“Excellence in Programming Award” for the ‘5 Aces of Farm Management’ Multi-County Educational Program in Northeast Nebraska. Awarded by both the University of Nebraska Extension Service at the *Nebraska Extension Annual Conference*, 1993, and the *National Association of County Agricultural Agents (NACAA) Annual Meeting*, 1993.

RESEARCH ACTIVITIES

Grant Activity (Received)

Ogallala Aquifer Initiative Grant. “Integrating Livestock into Traditional Wheat-Sorghum-Fallow Rotations.” Principal Investigator: KSU Scientist Johnathan Holman. Co-Investigators: Augustine Obour, Sandy Johnson, and Daniel O'Brien, all of KSU. Grant amount: \$98,825 over three years – October 2021 through September, 2024. (*D. O'Brien portion - \$1,769 over a three-year period*)

USDA Natural Resource Conservation Service (NRCS). “Developing Best Management Practices (BMPs) for Cover Crops to Improve Soil Health in Dryland Systems in Western Kansas.” Principal Investigator: Augustine Obour. Other Investigators: Johnathan Holman, Vipin Kumar, and Daniel O'Brien. Grant amount: \$75,000 for the June 12, 2020 through August 31, 2022 period. (*D. O'Brien portion - \$1,858 over three-year period*)

North Central Extension Risk Management Education Center (NC-ERMEC). “Using Crop Insurance and Preharvest Marketing Strategies to Improve Grain Marketing Risk Management for Kansas Farmer.” NC-ERMEC Project 14321. Principal Investigator: Daniel O'Brien. Co-Investigators: Monte Vandever and Richard Llewelyn. Grant amount: \$49,999 for 1 ½ years – March 1, 2020 through September 30, 2021. (*D. O'Brien portion - \$22,285 over a 1 ½ year period*)

USDA Critical Agricultural Research and Extension (CARE). “Development of an Innovative Technology for Value-added Production of Antioxidants from Corn Distillers’ Grains.” Principal Investigator: Yonghui Li – Grain Science and Industry, Kansas State University. Project Participants: Haibo Huang – Virginia Tech University; Carlos Campabadal & Daniel O'Brien – Kansas State University. Grant amount: \$299,966 for 3 years – May 5, 2020 through May 14, 2023. (*D. O'Brien portion - ≈ \$5,000 over a 3 year period, years 2 & 3*)

Kansas Corn Commission Grant. “Working with Less Water for Corn Production” Principal Investigator: Alan Schlegel (lead). Other Investigators: F. Lamm and D. O'Brien. Grant amount: \$32,500 for the July 1, 2020 through June 30, 2021 period. (*D. O'Brien portion - \$2,500*)

Kansas Soybean Commission Grant. “Improving Soybean Yields by Enhancing Seed Filling.” Principal Investigator: Ignacio Ciampitti (lead). Other Investigators: D. Ruiz Diaz Suarez, M. Knapp, B. McCarnack, D. Jardine, D. O'Brien, and S. Duncan. Grant amount: \$27,500 for the March 1, 2020 through February 28, 2021 period. (*D. O'Brien portion - \$0*)

Kansas Corn Commission Grant. “Efficient Irrigation Technologies for Corn – A Comparison” Principal Investigator: Freddie Lamm (lead). Other Investigator: D. O’Brien. Grant amount: \$15,000 for the July 1, 2019 through June 30, 2020 period, year 3 of 3. (*D. O’Brien portion - \$1,250 in year 3, \$2,000 used in previous 2 periods*)

US Department of Agriculture – Risk Management Agency. “Utilizing RMA Insurance Products to Enhance Farm-level Risk Management Strategies for Kansas Producers.” Principal Investigator: Daniel O’Brien. Co-Investigators: Roberta Reid, Richard Llewelyn, and Monte Vandever. Grant amount: \$97,074 for 1 ½ years – September 30, 2018 through March 31, 2020. (*D. O’Brien portion - \$29,743 over a 1 ½ year period*)

National Sunflower Association Grant. “Influence of rainfall on the timing and efficacy of PRE/POST soil residual herbicides for control of herbicide-resistant kochia and Palmer amaranth.” Principal Investigator: Vipin Kumar (lead). Other Investigators: P. Stallman, D. O’Brien, and J. F. Jones. Grant amount: \$4,000 for the March 1, 2019 through February 28, 2020 period. (*D. O’Brien portion - \$0*)

US Department of Agriculture – Agricultural Research Service. “Water Management to Sustain the Economic Activity from the Ogallala Aquifer on the Southern High Plains.” Principal Investigator: Dan Devlin. Co-Investigators: Bill Golden, Daniel O’Brien, Monte Vandever, et al.. Grant amount: \$436,847 for five years – September 1, 2015 through August 31, 2020. (*D. O’Brien portion - \$18,712 over five-year period*)

Ogallala Aquifer Initiative Grant. “Crop Assurance Strategies for Irrigated Grain Sorghum Production.” Principal Investigator: KSU Scientist Alan Schlegel. Co-Investigators: Jourdan Bell (Texas Agrilife), Freddie Lamm and Daniel O’Brien (KSU), and Robert Schwartz (USDA ARS Bushland). Grant amount: \$162,791 over three years – October 2017 through March, 2020. (*D. O’Brien portion - \$4,743 over three-year period*)

Ogallala Aquifer Initiative Grant. “Landscape-scale Crop Water Productivity Model Supporting Multi-year Water Management Decisions.” Principal Investigators: KSU Scientists Robert Aiken, Xiaomao Lin, and F. Lamm. Co-Investigators: Paul Colazzi (USDA ARS Bushland), Daniel O’Brien (KSU), and R. Louis Baumert (USDA ARS Bushland). Grant amount: \$58,000 over three years – October 2015 through September, 2018. (*D. O’Brien portion - \$2,700 over three-year period*)

USDA Natural Resource Conservation Service (NRCS). “Demonstrating interactions between reduced tillage, soil water storage, and nutrient leaching under water limited irrigated cropping systems.” Principal Investigator: Isaya Kisekka. Other Investigators: Johnathan Holman, Daniel O’Brien, and Jonathan Aguilar. Grant amount: \$169,572 for year 3 of 3 year grant for the October 1, 2016 through September 30, 2017 period. (*D. O’Brien portion - \$4,000 over three-year period*)

Kansas Grain Sorghum Commission. “Sorghum Yield and Profitability Response to Water Supply and Irrigation Management.” Principal Investigators: Isaya Kisekka, and William Golden. Other Investigators: Freddie Lamm, Alan Schlegel, and Daniel O’Brien. Grant amount: \$75,000 for year 3 of 3 year grant for the October 1, 2016 through September 30, 2017 period. Total of \$230,659 for 3-year life of grant. (*D. O’Brien portion - \$5,000 over three-year period*)

Kansas Corn Commission Grant. “Corn Management Decision Guiding Website and Mobile App.” Principal Investigator: Ignacio Ciampitti (lead). Other Investigators: B. McCornack, Y. Assefa, D. O’Brien, V. Prasad, W. Johnson, I. Kisekka, D. Shoup, L. Haag, S. Duncan, and A.J. Foster. Grant amount: \$39,350 for the July 1, 2016 through June 30, 2017.

Kansas Corn Commission Grant. “Developing a crop evaluation tool for comparing corn to alternative crop in Kansas Cropping Systems.” Principal Investigator: Daniel O’Brien (lead). Other Investigators: Ignacio Ciampitti, Danny Rogers, Jonathan Aguilar, William Golden, Xiaomao Lin, Lucas Haag, and Kraig Roozeboom. Grant amount: \$50,000 for the July 1, 2014 through December 31, 2015 period.

Arthur Capper Cooperative Center - CoBank Research Fellow Grant. “Factors affecting Kansas grain handling industry trends at the local level.” Principal Investigator: Daniel O’Brien. Grant amount: \$5,000 for the July 1, 2014 through June 30, 2015 period.

Ogallala Aquifer Initiative Grant. “Optimizing Land/Water Allocations for Irrigated Corn Production.” Focus of this grant: to reevaluate grain and biomass yield response functions in the High Plains region, normalize corn yield production functions across the region, and evaluate the economics of corn production for various irrigation capacities, hybrids, and plant populations. Principal Investigator: KSU Scientist F. Lamm. Co-Investigators: A. Schlegel, I. Kisekka, D. O’Brien, R. Schwartz, J. Bell, P. Colaizzi, and B. Guerrero. Grant amount: \$196,201 for two years – October 2014 through March, 2016.

Ogallala Aquifer Initiative Grant. “Conjunctive Use of Soil and Plant Based Sensors in Reducing Irrigation Scheduling Uncertainty.” Focus of this grant: to evaluate combined use of soil- and plant-based sensors for reducing uncertainty in irrigation scheduling in limited water environments. Principal Investigator: KSU Scientist I. Kisekka. Co-Investigators: J. Aguilar, D. O’Brien, and D. Rogers. Grant amount: \$39,802 for two years – October 2014 through March, 2016.

Kansas Corn Commission. “Yield of two (corn) hybrid maturities as affected by management allowed depletion level.” Principal Investigator: Freddie Lamm. Other Investigator: Daniel O’Brien. Grant amount: \$18,000 for the July 1, 2014 through June 30, 2015 period.

Ogallala Aquifer Initiative Grant. “Crop Water Production Functions for Grain Sorghum and Winter Wheat.” Focus of this grant: to develop relationships among water use, grain productivity and weather parameters to produce production functions forecasting grain yields of grain sorghum and winter wheat in water-limited cropping systems. Principal Investigators: KSU scientists Robert Aiken, Xiaomao Lin, and Loyd Stone. Daniel O’Brien of KSU is a co-investigator along with three others from KSU and ARS-Texas. Grant amount: \$41,500 per year for 2 years, equaling \$83,000 – for October 2013-October 2015.

Kansas Water Resources Institute. “Moving Towards a Real-Time Drought Assessment and Forecasting System for Kansas.” Focus of this grant: to develop a real-time Kansas drought assessment and forecasting system in order to improve Kansan’s decision making in regards to economic efficiency and sustainability. Principal Investigators: KSU

scientists Xiaomao Lin, Gerard Kluitenberg, Robert Aiken, and Daniel O'Brien. Grant amount: \$14,430 per year over a two-year period, totaling \$28,860 – for March 2014 through February 2016.

Ogallala Aquifer Initiative Grant. “Determining Profitable Integrated Grain and Forage Crop Rotations for the Ogallala Aquifer Region.” Focus of this grant: to integrate grain and annual forage crops together in crop rotations that reduce fallow, increase precipitation use efficiency, and increase profitability. Principal Investigators: KSU scientists John Holman, Alan Schlegel and Daniel O'Brien. Grant amount: \$46,021 per year for two years, with total = \$92,042 – January 2014 through December 2015.

Out-of-State Invited and Presented Applied Research Papers & Symposia:

O'Brien, D., H. Tejada, and R. Llewelyn. “The Effect of Soybean Futures Forecast Accuracy on Basis in Local Cash Markets.” Presented at the *2020 Agricultural and Applied Economics Conference* (Virtual), August 10-11, 2020.

O'Brien, D., H. Tejada, and R. Llewelyn. “The Effect of Corn Futures Forecast Accuracy on Basis in Local Cash Markets.” Accepted for presentation at the *NCCC-134 Applied Commodity Price Analysis, Forecasting and Market Risk Management Conference*, St. Louis, MO. April 20-21, 2020.

Dhungel, R., R. Aiken, P. Colaizzi, X. Lin, D. O'Brien, L. Baumhardt, D. Brauer, G. Marek and S. Evett. “Landscape-scale crop water productivity model supporting multi-year water management decisions.” Progress report, presented at Ogallala Aquifer Workshop, Lubbock, TX, March 27, 2018.

Barnaby, G.A., D. O'Brien and E. Yeager. “Have the Land Grants been Teaching Futures and Options Wrong for 50 Years?” Organized Symposium at the *2017 Agriculture and Applied Economics Association Annual Meeting*, Chicago, IL, August 1, 2017.

O'Brien, D., and B. Briggeman. “The Changing Competitive Structure of the Kansas Grain Handling and Transportation Industry.” Presentation at the *2016 Agriculture and Applied Economics Association Annual Meeting*, Boston, Massachusetts, July 31-August 2, 2016.

Moderly, J, R. Aiken, X. Lin, L. Stone, A. Schlegel, L. Baumhardt, R. Schwartz, and D. O'Brien. “Crop water functions for grain sorghum and winter wheat.” Abstract of a presentation at the *ASA/CSSA/SSSA Annual meeting*, November 6-9, 2015. *ASA Abstracts* 95-1(2015).

Schlegel, A., D.M. O'Brien, and L. Haag. “Dryland Cropping Systems for the Central High Plains of North America.” Submitted abstract for the *70th Soil and Water Conservation Society (SWCS) International Annual Conference*, Greensboro, NC. July 26-27, 2015.

O'Brien, D., and F. Olson. “The Competitive Position of the Black Sea Region in World Wheat Export Markets.” Presented at the *NCCC-134 Applied Commodity Price Analysis, Forecasting and Market Risk Management Conference*, St. Louis, MO. April 21-22, 2014.

Langemeier, M, E. Yeager, and D. O'Brien. “Cost Efficiency and Feed Grain Production in Kansas.” Presented at *Southern Agricultural Economics Association Annual Meetings*, Orlando, FL. February 4-7, 2013.

- Wisner, R., D. Anderson, R. Plain, D. Hofstrand, and D.M. O'Brien. "Future Patterns for Grains, Biofuels, and Livestock and Poultry Feeding in the U.S." Report on a project financed by the American Feed Industry Association (AFIA) and C-FARE, and presented at the *Federation of Animal Sciences Symposium*, Phoenix, AZ, July 17, 2012, and also to the *USDA ERS Economists Group*, Washington, D.C.. December 14, 2012.
- Lamm, F.R., D.M. O'Brien, D.H. Rogers, and T.J. Dumler. "Comparison of SDI and center pivot sprinkler economics." In: *Proc. 2012 Irrigation Association Tech. Conf.*, Orlando, FL., November 4-5, 2012. Available from the IA, Falls Church, VA. CD-Rom, 10 pp.
- O'Brien, D. and F. Olson. "The Price Responsiveness of U.S. Wheat Export Demand by Class." *NCCC-134 Applied Commodity Price Analysis, Forecasting and Market Risk Management Conference*, St. Louis, MO. April 16-17, 2012.
- O'Brien, D., and J. O'Neill. "The Feasibility of Railcar Track Delivery as an Alternative Settlement Option for KCBT Wheat Futures Contracts." Presented at the *NCCC-134 Applied Commodity Price Analysis, Forecasting and Market Risk Management Conference*, St. Louis, MO. April 18-19, 2011.
- Lamm, F., D. Rogers, M. Alam, D. O'Brien, and T. Trooien. "Twenty-Two Years of SDI Research in Kansas." *Proceedings of 23rd annual Central Plains Irrigation Conference*, Burlington, CO. February 22-23, 2011. Available from CPIA, 760 N.Thompson, Colby, KS, pp. 68-92.
- Lamm, F., D. O'Brien, D. Rogers, and T. Dumler. "Using the K-State Center Pivot Sprinkler and SDI Economic Comparison Spreadsheet - 2011." *Proceedings of 23rd annual Central Plains Irrigation Conference*, Burlington, CO, February 22-23, 2011. Available from CPIA, 760 N.Thompson, Colby, KS. pp. 93-103.
- O'Brien, D., T. Dumler, and R. Jones. "The Economics of Selling Crop Residue Biomass for Cellulosic Ethanol Production at the Farm Level." Presented at the *AAEA, CAES, and WAEA Joint Annual Meeting*, Denver, CO. July 25-27, 2010.
- O'Brien, D. "Measuring Supply – Use for Distiller's Grains." Presentation at the *2010 Distillers Grains Symposium*, sponsored by Distillers Grains Technology Council, Indianapolis, IN. May 12-13, 2010.
- Lamm, F., D. O'Brien, D. Rogers, and T. Dumler. "How Economic Factors Affect the Profitability of Center Pivot Sprinkler and SDI Systems." *Proceedings of the Central Plains Irrigation Conference*, Kearney, NE. February 23-24, 2010.
- O'Brien, D., F. Lamm, D. Rogers, and T. Dumler. "Effect of the Changing U.S. Economy on the Relative Profitability of Center Pivot Sprinklers and SDI Systems." Paper presented at the *Annual Meeting of the Irrigation Association* in San Antonio, Texas. December 2-4, 2009.
- O'Brien, D. "The Effects of the Micro-Market Structure for Kansas Grain Elevators on Spatial Grain Price Differentials." Presented at the *NCCC-134 Applied Commodity Price Analysis, Forecasting and Market Risk Management Conference*, St. Louis, MO. April 20-21, 2009.

- O'Brien, D., and M. Woolverton. "A Case Study of the Impact of Bioenergy Development Upon Crop Production, Livestock Feeding, and Water Resource Usage in Kansas." Selected paper presented at the *American Agricultural Economics Association Annual Meeting*, Orlando, Florida. July 27-29, 2008.
- Lamm, F., D. O'Brien, D. Rogers, and T. Dumler. "Sensitivity of center pivot sprinkler and SDI economic comparisons." Presented at the *Mid-Central American Society of Agricultural Engineers (ASAE) meeting*, St. Joseph, MO, April 12-13, 2002. ASAE Paper no. MC02-201. ASAE, St. Joseph, MI. 10 pp., 2002.
- O'Brien, D.. "Do Profitable Grain Marketing Strategies Exist for Kansas Crops?" Selected paper presented at the *American Agricultural Economics Association Annual Meeting* in Tampa, Florida. July 30-August 2, 2000.
- Sartwelle, J., D. O'Brien, W. Tierney, T. Eggers, and W. Barker. "Producers' Marketing Practices and Decision Making Processes." Proceedings of *NCR-134 Applied Commodity Price Analysis, Forecasting and Market Risk Mgmt. Conference*, Chicago, IL. pp. 381-394, 1998.
- Wisner, R., E. Blue, E. Baldwin, G.A. Barnaby Jr., and D. O'Brien. "Crop Insurance and Pre-harvest Pricing of Corn and Soybeans: Case Studies for Selected States and Farms." Presented at the *NCR-134 Applied Commodity Price Analysis, Forecasting and Market Risk Management Conference*, Chicago, Illinois. April 20-21, 1998.
- O'Brien, D., D. Rogers, F. Lamm, and G. Clark. "Economics of SDI for Corn in Western Kansas." Paper presented at the *Annual Meeting of the American Society of Agricultural Engineering* in Minneapolis, Minnesota. August 10-14, 1997.
- Delano, D., J. Williams, and D. O'Brien. "An Economic Analysis of Flood and Center Pivot Irrigation System Modifications." Paper presented at the *Annual Meeting of the American Agricultural Economics Association* in Toronto, Ontario. July 27-30, 1997.
- Sartwelle, J., D. O'Brien, and W. Barker. "Producers' Preferences for Market Outlook Information." Presented at the *NCR-134 Applied Commodity Price Analysis, Forecasting and Market Risk Management Conference*, Chicago, Illinois. April 21-22, 1997.
- O'Brien, D., and R. Wisner. "Development of Alternative Wheat and Corn Price Forecasting Models." Presented at the *NCR-134 Applied Commodity Price Analysis, Forecasting and Market Risk Management Conference*, Chicago, Illinois. April 21-22, 1997.
- O'Brien, D., and R. Wisner. "The Performances of Probability-Based Grain Marketing Strategies." Proceedings of *NCR-134 Applied Commodity Price Analysis, Forecasting and Market Risk Management Conference*, Chicago, Illinois, pp. 323-335, 1995.
- Hayenga, M. and D. O'Brien. "Competition for Fed Cattle in Colorado and Other Markets: The Impact of the Decline of Packers and the Ascent of Contracting." Presented at the *NCR-134 Applied Commodity Price Analysis, Forecasting and Market Risk Management Conference*, Chicago, IL. April 1990.

SOFTWARE

Rogers, D., J. Aguilar, D. O'Brien, and B. Golden. "Kansas State University Crop Water Allocator Program Update." <http://www.bae.ksu.edu/mobileirrigationlab/crop-water-allocator>. Beta version released to the public in 2017.

Lamm, F. and D. O'Brien. "Economically optimal corn plant population at various irrigation capacities using subsurface drip irrigation (SDI)." <http://www.ksre.ksu.edu/sdi/Software/SDISoftware.htm>, January 17, 2012.

Lamm, F., D. O'Brien, D. Rogers, and T. Dumler. "Economics of Converting Existing Furrow Irrigated Fields to Center Pivot Sprinkler Irrigation (CP) or Subsurface Drip Irrigation (SDI) for Corn Production." <http://www.ksre.ksu.edu/sdi/Software/SDISoftware.htm>, October 27, 2012.

Lamm, F., D. O'Brien, D. Rogers, and T. Dumler. "Economics of Converting Existing Furrow Irrigated Fields to Center Pivot Sprinkler Irrigation (CP) or Subsurface Drip Irrigation (SDI) for Corn Production." <http://www.ksre.ksu.edu/sdi/Software/SDISoftware.htm>, February 9, 2011.

JOURNAL ARTICLES

Dhungel, R., R.M. Aiken, X. Lin, S. Kenyon, P.D. Colaizzi, R. Luhman, R. L. Baumhardt, D. O'Brien, S. Kutikoff, and D.K. Brauer. "Restricted water allocations: Landscape-scale energy balance simulations and adjustments in agricultural water applications." *Agricultural Water Management*. Volume 227, Issue 20, January 2020.

Dhungel, R., R. Aiken, X. Lin, P. Colazzi, Xiaomao Lin, R. Baumhardt, S. Evett, G. Marek, and D. O'Brien. "Increased Bias in Evapotranspiration Modeling Due to Weather and Vegetation Indices Data Sources." *Agronomy Journal*, 111:1-18 (2019).

Dhungel, R., R. Aiken, P. Colazzi, X. Lin, Xiaomao Lin, D. O'Brien, R. Baumhardt, D. Brauer, S. Evett, G. Marek. "Evaluation of Uncalibrated Energy Balance Model (BAITSSS) for Estimating Evapotranspiration in a Semiarid, Advective Climate." *Hydrological Processes* 33:2110-2130 (2019).

Dhungel, R., R.M. Aiken, X. Lin, L. Baumhardt, D.K. Brauer, P.D. Colaizzi, S.R. Evett, G.W. Marek and D. O'Brien. "Next generation landscape evapotranspiration tools: Is it feasible?" *Agronomy Abstracts*. Presented at the American Society of Agronomy Annual Meeting, Baltimore, MD, November 6, 2018.

Ye, Qing, X. Lin, E. Adey, D. Min, Y. Assefa Mulisa, D. O'Brien, and I. Ciampitti. "Evaluation of climatic variables as yield-limiting factors for maize in Kansas." *International Journal of Climatology*, Volume 37, Issue S1, August 2017.

Schlegel, A, Y. Assefa, D. O'Brien, F. Lamm, L. Haag, and L. Stone. "Comparison of corn, grain sorghum, soybean, and sunflower under limited irrigation." *Agronomy Journal* 108:1-10 (2016).

Lamm, F, D. O'Brien, and D. Rogers. "Economic Comparison of Subsurface Drip and Center Pivot Sprinkler Irrigation Using Spreadsheet Software." Technical Note in *Applied*

Engineering in Agriculture 31(6):929-936 (2015).

- Schlegel, A., O'Brien, D., and L. Haag. "Dryland Cropping Systems for the Central High Plains of North America." Abstract for the 70th *Soil and Water Conservation Society (SWCS) International Annual Conference*, Greensboro, NC. July 26-27, 2015.
- Aiken, R., D. O'Brien, B. Olson, and L. Murray. "Replacing Fallow with Continuous Cropping Reduces Crop Water Productivity of Semiarid Wheat." *Agronomy Journal* 105(2013)1: 199-207.
- Lamm, F., P. Colaizzi, J. Bordovsky, T. Trooien, J. Enciso-Medina, D. Porter, D. Rogers, and D. O'Brien. "Can Subsurface Drip Irrigation (SDI) be a Competitive Irrigation System in the Great Plains Region for Commodity Crops?" *American Society of Agricultural and Biological Engineers (ASABE) paper no. IRR10-9686*, presented at the *Annual Meeting of the Irrigation Association* in Phoenix, Arizona. December 5-8, 2010.
- Aiken, R.M., D. O'Brien, B. Olson and L. Murray. "Crop sequence effects on wheat water use, productivity and economic returns." *Agronomy Abstracts /AnMtgsAbsts2009.54699*
- Lamm, F., D. Rogers, M. Alam, D. O'Brien, and T. Trooien. "Twenty years of progress with SDI in Kansas." *American Society of Agricultural and Biological Engineers (ASABE) paper no. 095923*. Available from ASABE, St. Joseph, MI. 23 pp., 2009.
- Lamm, F., L. Stone, and D. O'Brien. "Crop production and economics in Northwest Kansas as related to irrigation capacity." *Applied Engineering in Agriculture* 23(6):737-745, 2007.
- Lamm, F., R. Aiken and D. O'Brien. "Tillage and Irrigation Capacity Effects on Corn Production." *American Society of Agricultural and Biological Engineers (ASABE) paper no. 072283*. Available from ASABE, St. Joseph, MI. 16 pp., 2007.
- Lamm, F., L. Stone, and D. O'Brien. "Crop Production in Western Kansas as Related to Irrigation Capacity." International paper published by the *American Society of Agricultural and Biological Engineers (ASABE)*, paper no. 062208. Available from ASABE, St. Joseph, MI. 13 pp., 2006.
- O'Brien, D., F. Lamm, L. Stone, and D. Rogers. "Corn yields and profitability for low-capacity irrigation systems." *Applied Engineering in Agriculture* 17(3):315-321, 2001.
- Sartwelle, J., D. O'Brien, W. Tierney, T. Eggers, and W. Barker. "The Effect of Personal and Farm Characteristics Upon Grain Marketing Practices." *Journal of Agricultural and Applied Economics*, 32,1(April 2000):95-111.
- Lust, T, G. Barnaby, D. O'Brien, and M. Waller. Ch. 3.6 Marketing, in *Sorghum: Origin, History, Technology and Production*, editor C. Wayne Smith. Wiley Series in Crop Science, 2000.
- O'Brien, D., D. Rogers, F. Lamm, and G. Clark. "An Economic Comparison of Subsurface Drip and Center Pivot Sprinkler Irrigation Systems." *Applied Engineering in Agriculture* 14(4): 391-398, 1998.

Lamm, F., L. Stone, H. Manges, and D. O'Brien. "Optimum Lateral Spacing for Subsurface Drip-Irrigated Corn." *Transactions of the ASAE* (American Society of Agricultural Engineers), 40(4): 1021-1027, 1997.

O'Brien, D., M. Hayenga, and B. Babcock. "Deriving Forecast Probability Distributions of Harvest-Time Corn Futures Prices." *Review of Agricultural Economics* 18:167-180, 1996.

Hayenga, M. and O'Brien, D. "Packer Competition, Forward Contracting Price Impacts, and the Relevant Market for Fed Cattle." Published in *Pricing and Coordination in Consolidated Livestock Markets*, edited by Wayne Purcell, pp. 45-66, 1992.

SELECTED POSTERS

O'Brien, D., H. Tejada, and R. Llewelyn. "The Effect of Soybean Futures Forecast Accuracy on Basis in Local Cash Markets." Presented at the *2020 Agricultural and Applied Economics Conference* (Virtual), August 10-11, 2020.

Dhungel, R., R.M. Aiken, P. Colaizzi, Xiamao Lin, D. O'Brien, L. Baumhardt, D. Brauer, G. Marek, and S. Evett. "Landscape-scale crop water productivity model supporting multi-year water management decisions." Selected poster at the *Governor's Water Conference*, Manhattan, KS. November 13-14, 2018.

O'Brien, D., G.A. Barnaby, & E. Yeager. "Causes and Solutions to Non-Convergence in CME Hard Red Winter Wheat Futures." Selected poster at the *Agricultural and Applied Economics Annual Meetings*, Chicago, IL. August 14-16, 2017.

Olson, F, and D. O'Brien. "Competitive Position and Price Integration of Black Sea Region Wheat." Selected poster at the *Agricultural and Applied Economics Annual Meetings*, Washington, D.C.. August 4-6, 2013.

O'Brien, D., and R. Wisner. "Alternative Grain Price Benchmarks for Evaluating Marketing Performance." Selected poster at the *American Agricultural Economics Association Annual Meeting*, Long Beach, California, July 28-31, 2002.

OTHER POSTERS

Aiken, R. and D. O'Brien. "Water use and land productivity for ten rain-fed cropping sequences." Poster at the *Water and the Future of Kansas Conference*, Topeka, KS, March 25, 2008.

Lamm, F., D. O'Brien, D. Rogers, and T. Dumler. "Economics of Subsurface Drip Irrigation for Corn Production." Poster at the *Water and the Future of Kansas Conference*, Topeka, KS, March 25, 2008.

Lamm, F. and D. O'Brien. "Software for Planning Corn Production for Subsurface Drip Irrigation." Poster at the *Water and the Future of Kansas Conference*, Topeka, KS, March 25, 2008.

SELECTED OUT-OF-STATE EXTENSION PUBLICATIONS, PRESENTATIONS AND ACTIVITIES

- Allen, Guy and D. O'Brien. "2020 Corn and Sorghum Market Outlook." Presented at a *U.S. Grain Council webinar* to U.S. and foreign staff, via ZOOM Teleconference, June 12, 2020.
- Allen, Guy and D. O'Brien. "2020 Grain Market Outlook with COVID-19 Effects." Presented at a *U.S. Grain Council webinar* to U.S. and foreign staff, via ZOOM Teleconference, May 14, 2020.
- O'Brien, D. "2020 Feedgrain & Soybean Market Outlook." Presented at the *Oklahoma State University Extension Agent Update*, via ZOOM Teleconference, March 10, 2020.
- O'Brien, D. "2020 U.S. Corn & Soybean Market Outlook." Presented at the *2020 Pioneer Hybrids Regional Seed Meeting*, Grand Island, Nebraska, February 28, 2020.
- O'Brien, D. "2019 U.S. & World Grain Sorghum Market Outlook." Presented at the *2019 U.S. Feedgrains Conference*, Athens, Greece, June 15-22, 2019.
- O'Brien, D. "2020 Grain Market Outlook." Presented at the *Agricultural Horizons Conference*, Pierre, SD. December 10, 2019.
- O'Brien, D. and M. Elliott. "Focus on Regional Cash Grain Markets." Presented at the *Agricultural Horizons Conference*, Pierre, SD. December 11, 2019.
- O'Brien, D. "Wheat Market Situation & Outlook." Presented at the *Livestock Marketing Information Center Industry Outlook Conference*, Denver, CO. October 24, 2019.
- O'Brien, D. "Grain Sorghum and Cotton Market Situation & Outlook." Presented at *Extension Midwest Outlook Conference*, Kansas City, MO, August 13-14, 2018.
- O'Brien, D. "Wheat Market Situation & Outlook." Presented at the *Livestock Marketing Information Center Industry Outlook Conference*, Denver, CO. April 20, 2017.
- O'Brien, D. "Feedgrain Market Outlook." Presentation via teleconference at the *Texas Master Market Program*, Amarillo, TX, January 26, 2017.
- O'Brien, D. "Corn and Soybean Market Outlook." Presentation in person at the *Syngenta Producer Meetings*, Kansas City, MO and Quincy, IL, November 16-17, 2016.
- Barnaby, G. A., and D. O'Brien. "Non-convergence of the CME Kansas Hard Red Winter Wheat Futures Contract." Presentation at the *2016 National Association of Wheat Growers (NAWG) Annual Meeting*, Denver, Colorado, November 3, 2016.
- O'Brien, D. "Feedgrain Market Outlook." Presentation via teleconference at the *Texas Master Market Program*, Amarillo, TX, February 11, 2016.
- O'Brien, D. "Feedgrain and Wheat Supply-Demand Drivers and Market Outlook." Presentation in person at the *Texas Master Market Program*, Abilene, TX, February 3, 2016.
- O'Brien, D. "Wheat Market Outlook for 2015-2016." Presentation at *Extension Midwest*

- Outlook Conference*, Louisville, KY, August 13-14, 2015.
- O'Brien, D. "A Response to the Corn, Soybean & Wheat Market Situation & Outlook Presentations." Presentation at *Extension Midwest Outlook Conference*, Indianapolis, IN, August 13-14, 2013.
- O'Brien, D. "Wheat Market Situation & Outlook." Presentation at Extension Outlook Session, *Agricultural and Applied Economics Annual Mtgs*, Washington, D.C.. August 4-6, 2013.
- Wisner, R., D. Anderson, R. Plain, D. Hofstrand, and D. O'Brien. "Future Patterns for Grains, Biofuels, and Livestock and Poultry Feeding in the U.S.." Moderator of meeting to review report's findings to the *USDA Economic Research Service Economist Group*, Washington, DC.. December 14, 2012.
- O'Brien, D. "Wheat Market Situation & Outlook." Presentation at the *Extension Midwest Outlook Conference*, Kansas City, MO. August 20-21, 2012.
- Wisner, R. and D. O'Brien. "Bioenergy and Corn Market Situation and Outlook." Presented for Extension Outlook Session, *2011 AAEA & NAREA Joint Annual Meeting*, Pittsburgh, PA. July 24-26, 2011.
- O'Brien, D. "Wheat Market Situation & Outlook." Presented at the *Livestock Marketing Information Center Industry Outlook Conference*, Denver, CO. April 4, 2011.
- O'Brien, D. "Grain Marketing: Prices, Principles & Strategies." Presented at *Risk Assessed Marketing Workshops* in Wyoming, March 2011.
- O'Brien, D. "Grain Market Situation and Outlook." Presented at *Cornhusker Economics Conference(s)* in Nebraska. February 2011.
- O'Brien, D. "Grain Marketing: Prices, Principles & Strategies." Presented at *Risk Assessed Marketing Workshop*, Brigham City, UT. November 29, 2010.
- O'Brien, D. "Projected U.S. Corn Exports, Acreage & Production Under E-10, E-12 & E-15 Ethanol Policies." Presented at the *2010 Extension Midwest, Great Plains & Western Outlook Conference*, Omaha, NE. August 16-17, 2010.
- O'Brien, D. "Corn Market Situation and Outlook." Presentation at the *2010 Extension Midwest, Great Plains & Western Outlook Conference*, Omaha, NE. August 16-17, 2010.
- O'Brien, D.. "The Economics of Selling Crop Residue Biomass for Cellulosic Ethanol Production at the Farm Level." Presentation at the *Agriculture and Applied Economics Association Annual Meetings*, Denver, Colorado. July 25-27, 2010.
- O'Brien, D.. "Measuring Supply – Use for Distiller's Grains." Presentation at the *2010 Distillers Grains Symposium*, sponsored by the Distillers Grains Technology Council, Indianapolis, Indiana. May 12-13, 2010.
- O'Brien, D. "Projected U.S. Corn Exports, Acreage and Production Under E-10, E-12 and E-15 Ethanol Policies." Article in *Feedstuffs* magazine, 2010.

- O'Brien, D., F. Lamm, D. Rogers, and T. Dumler. "Effect of the Changing U.S. Economy on the Relative Profitability of Center Pivot Sprinklers and SDI Systems." Paper presented at the *Annual Meeting of the Irrigation Association*, San Antonio, TX. December 2-4, 2009.
- O'Brien, D. "Wheat Market Situation and Outlook." Presentation at the *Agricultural and Applied Economics Association Meetings*, Milwaukee, WI. July 26-28, 2009.
- O'Brien, D. and M. Woolverton. Series of sixteen articles on Ethanol / Bioenergy Markets for Iowa State University *Ag Marketing Resource Center Newsletter* Articles, 2009-2010.
- O'Brien, D., J. Deering, and P. Burgener. "Sunflower Cost-Return Prospects." Section of the *High Plains Sunflower Production Handbook*. K-State Research and Extension Publication, MF-2384, (Revised) April 2009.
- Rogers, D., F. Lamm, and D. O'Brien. "Software for Planning Corn Production for Subsurface Drip Irrigation." Proceedings of the *Central Plains Irrigation Conference*, Greeley, CO. February 19-20, 2008.
- O'Brien, D. "Iowa Farm Outlook Newsletter". *Iowa State University Extension Service* (Thirty-eight articles on grain and/or livestock market analysis, price outlook, and strategies), August 31, 1989 through June 15, 1994, and March 1, 2008.
- O'Brien, D. "Irrigated Cost of Production and Leasing Arrangements." Proceedings of the *Central Plains Irrigation Conference*, Kearney, Nebraska. February 27-28, 2007.
- O'Brien, D.. "Wheat Market Situation and Outlook." Presentation at the Extension Outlook Session of the *American Agricultural Economics Association Annual Meeting.*, Long Beach, California. July 29, 2002.
- O'Brien, D.. "Wheat Market Situation and Outlook." Presentation at the Extension Outlook Session of the *American Agricultural Economics Association Annual Meeting.*, Tampa, Florida. July 30-August 2, 2000.
- O'Brien, D.. "A Second Opinion on Wheat, Feedgrain & Oilseed Outlook." Presentation at the *1998 Midwest Outlook Conference*, Kansas City, Missouri. August 13-14, 1998.
- O'Brien, D.. "Wheat Market Situation and Outlook." Presentation at the Extension Outlook Session of the *American Agricultural Economics Association Annual Meeting*, Indianapolis, Indiana. August 6-9, 1995.
- O'Brien, D.. "Wheat Market Situation and Outlook." Presentation at the *1995 Midwest Outlook Conference* in Louisville, Kentucky. August 14-16, 1995.
- O'Brien, D.. "Cattle Market Situation and Outlook." Presentation at the *Midwest Outlook Conference*, Brookings, South Dakota. August 16-17, 1990.
- Wisner, R., D. O'Brien, and S. Monson. "Corn and Soybean Basis Patterns for NW, NC, NE, SW, SC and SE Iowa.", M-1211, *Iowa State University Extension Service*, 1990.
- Futrell, G., K. Dhuyvetter, and D. O'Brien. "Trends In Hog Production and Production Efficiency, 1970-1987." *Iowa State University Department of Economics Report* No. 22, 1988.

SELECTED KANSAS IN-STATE EXTENSION PUBLICATIONS, PRESENTATIONS, AND MEDIA ACTIVITY

Extension Publications on Kansas State University AgManager.info Website

- O'Brien, D. "Grain Market Situation and Outlook." Eleven (11) articles on grain market situation and outlook for the *K-State Ag Econ Extension Agmanager.info website*, January-December 2020 (18 articles in 2019, 24 articles in 2018, 24 articles in 2017, 33 in 2016, 32 in 2015 & 30 in 2014).
- O'Brien, D. "Weekly Grain Market Commentary." Thirty-eight (38) sets of written materials developed to support the weekly *KSU Agriculture Today Radio Program*, made available on the *K-State Ag Economics Extension Agmanager.info website*, January-December 2020 (35 in 2019, 37 articles in 2018, 32 articles in 2017, 44 in 2016, 44 in 2015 & 47 in 2014).
- O'Brien, D. Selected "K-State Ethanol & Biodiesel Market Presentations." Ten (10) sets of materials (monthly) made available on the *K-State Ag Economics Extension Agmanager.info website*, January-December 2020 (8 sets in 2019, 7 sets in 2018, 11 sets of materials in 2017, 11 in 2016, 12 sets in 2015 & 10 sets in 2014).
- O'Brien, D. and various authors. "KSU Farm Management Guide Crop and Livestock Production Cost-Return Budgets." (series). K-State Research and Extension, 1995-2002 and 2007-2020.

Annual KSU Risk & Profit Conference Presentations

- O'Brien, D. "Grain Market Outlook." *Annual Risk and Profit Conferences*, Department of Agricultural Economics, Kansas State University, Manhattan, KS. August 2004, 2009-2020.
- O'Brien, D. "Managing Grain Price Risk with Contracts, Hedges and Options." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 22-23, 2019.
- O'Brien, D., E. Yeager, D. Holaday, & A. Barnaby. "The VSR Track Record for 2018 Kansas HRW Wheat Futures." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 16-17, 2018.
- O'Brien, D., & M. Wood. "Finding Grain Marketing Strategies for 2018-2019." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 16-17, 2018.
- O'Brien, D., A. Barnaby, & E. Yeager. "Non-Convergence in HRW Futures & Cash Prices." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 11-18, 2017.
- O'Brien, D. "Bioenergy Market Trends." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 11-18, 2017.

- O'Brien, D. "The Changing Competitive Structure of the Kansas Grain Handling and Transportation Industry." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 18-19, 2016.
- O'Brien, D. "Kansas Grain Industry Trends." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 20-21, 2015.
- O'Brien, D. "Black Sea Wheat Market Integration with World Wheat Markets." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 20-21, 2014.
- O'Brien, D. "Corn and Grain Sorghum Production Efficiency in Kansas." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 21-22, 2013.
- O'Brien, D. "Bioenergy Economics: Current Situation and 2012-2013 Outlook." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 16-17, 2012.
- O'Brien, D. "2011-2012 Grain Market Outlook and Basis Issues: A Deeper Look." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 18-19, 2011.
- O'Brien, D. "HRW Wheat Basis and Cash-Futures Convergence Issues in 2010." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 19-20, 2010.
- O'Brien, D. "The Impact of Kansas Grain Industry Structure on Corn and Wheat Bids." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 20-21, 2009.
- O'Brien, D. "Grain Handling and Transportation in Western Kansas." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 16-17, 2008.
- Woolverton, M. and D.M. O'Brien. "Global Supply & Demand: Can We Feed the World – Parts I & II." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 14-15, 2008.
- O'Brien, D. "Grain Handling and Transportation Systems in Western Kansas." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 16-17, 2007.
- Wahl, R., M. Wood, and D. O'Brien. "Factors Affecting Farm Financial Performance in Northwest Kansas." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 17-18, 2000.
- O'Brien, D., and T. Dumler. "Strategic Planning for Two Generation Farming." *Risk and Profit Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. August 20-21, 1998.

Albright, M., D. O'Brien, and J. Sartwelle. "Kansas Crop Share Leasing Arrangements." Presentation at the *K-State Ag Land Values Conference*, Dept. of Agricultural Economics, Kansas State University, Manhattan, KS. 23-24, 1996.

Other Annual State-wide KSU Conference & Workshop Presentations

O'Brien, D. "Grain Market Outlook." *Kansas Agricultural Lenders Conferences*, Dept. of Agricultural Economics, Kansas State University, Garden City, KS, and Manhattan, KS, Fall (October) 2009-2020.

O'Brien, D. "Grain Market Outlook." *Kansas Crop Insurance Workshops*, Dept. of Agricultural Economics, Kansas State University, Salina, KS. Nov. 2009-2010, 2012-2020.

O'Brien, D. "U.S. Ethanol Market and Policy Outlook." *Crop Insurance Workshops* in Colorado, Nebraska, Kansas, and Oklahoma. November 1-4, 2011

O'Brien, D. "Grain Marketing: Prices, Principles & Strategies." *Risk Assessed Marketing Workshops* in Kansas, 2009-2017.

Other Selected Extension Presentations, Publications and Activities in Kansas

O'Brien, D. and other Co-Presenters. Various grain marketing, farmland leasing, farm policy, and crop production economics topics at northwest Kansas KSU *Cover Your Acres Conferences*, January 2007-2015 & 2017 (not in 2016, 2018-2020).

O'Brien, D., and M. Vandever. "Irrigated Crop Production & Profitability." In: *Proc. 27th Annual Central Plains Irrigation Conference*, February 20-21, 2018, Colby, KS. Available from CPIA, 760 N. Thompson, Colby, KS.

Lamm, F., D. O'Brien, and D. Rogers. "Using the K-State center pivot sprinkler and SDI economic comparison spreadsheet – 2015." In: *Proc. 27th Annual Central Plains Irrigation Conference*, February 17-18, 2015, Colby, KS.

Lamm, F., D. O'Brien, and D. Rogers. "Using the K-State center pivot sprinkler and SDI economic comparison spreadsheet – 2014." In: *Proc. 26th Annual Central Plains Irrigation Conference*, February 25-26, 2014, Burlington, Colorado. Available from CPIA, 760 N. Thompson, Colby, KS.

Lamm, F., D. O'Brien, D. Rogers, and T. Dumler. "Using the K-State Center Pivot Sprinkler and SDI Economic Comparison Spreadsheet - 2012." Proceedings of the *Central Plains Irrigation Conference*, Colby, KS. February 21-22, 2012.

O'Brien, D., T. Dumler, and R. Madl. "What to Consider with Cellulosic Biomass Production." *Kansas Wheat District Meetings* presentation on www.agmanager.info, February 5, 2009.

Lamm, F., D. O'Brien, D. Rogers, and T. Dumler. "Using the K-State Center Pivot Sprinkler and SDI Economic Comparison Spreadsheet - 2009." Proceedings of the *Central Plains Irrigation Conference*, Colby, KS. February 24-25, 2009.

- O'Brien, D. and M. Woolverton. "Bioenergy Trends and Economic Impacts." *Kansas Water and Energy Conferences* organized by the Kansas Water Office and K-State Research and Extension, Wichita, KS, December 10, and Hays, KS, December 11, 2008.
- O'Brien, D. "Ethanol Impacts on Kansas Grain Production." *Kansas State University Biofuels Symposium*, Manhattan, KS, September 16, 2008.
- O'Brien, D.M. and M. Woolverton. "Status of Grain Based Ethanol Production, Transportation and Profitability in Kansas." *Special Legislative Committee on Energy and Environmental Policy*, Topeka, KS, August 12, 2008.
- O'Brien, D.M. and M. Langemeier. "Kansas Wheat Acreage and Net Returns." *KSU Wheat Production Handbook*, April 2008.
- Golden, B.B., J.M. Peterson, and D.M. O'Brien. "Potential Economic Impact of Water Use Changes in Northwest Kansas." *Staff Paper 08-02* Kansas State University Agricultural Experiment Station and Cooperative Extension Service. March 2008.
- Woolverton, M., and D. O'Brien. "Economics of Bioenergy Growth in Kansas." *Kansas Bioenergy and Water Public Meetings*, Kansas Water Office and K-State Research and Extension, Emporia, KS, Dec. 5, 2007; Garden City, KS, Dec. 7, 2007.
- O'Brien, D. "Farmland Values and Rental Rates in Northwest Kansas." *Real Estate Seminar*, Colby, KS. April 3, 2007.
- O'Brien, D. "Spatial Grain Market Economics: Handling and Transportation." *Kansas State University MAST Program*, Manhattan, KS. (Revised) December 21, 2007.

EXTENSION PUBLICATIONS, PRESENTATIONS, AND MEDIA/SOCIAL MEDIA ACTIVITIES

Extension educational presentations and contacts annually from 1995 through 2020 relating to the subject matter areas of Grain Market Outlook & Transportation, Bioenergy Economics, Commodity Price Risk Management, and Farm Programs & Crop Insurance.

Year	Public Presentations (Including Virtual in 2020)	Professional Contacts	Radio / TV / Print Media
1995	27	883	--
1996	42	1,527	--
1997	32	672	--
1998	18	465	--
1999	39	1,021	--
2000	34	778	--
2001	36	1,003	--
2002	39	1,777	--
2003-2006	KSU Administrative Responsibilities		
2007	34	585	--
2008	50	2,017	8
2009	46	1,597	26
2010	44	1,859	65
2011	45	2,256	67
2012	41	1,804	181
2013	34	1,607	191
2014	51	2,729	171
2015	29	2,716	173
2016	53	2,579	155
2017	55	2,559	148
2018	44	2,519	160
2019	56	3,694	93
2020	42	3,237	64

- Presentations: In year 2020, Daniel M. O'Brien gave 42 grain market and/or bioenergy market situation/outlook, grain price risk management, and/or farm bill educational presentations to a total of 3,237 people – an average of 77 per presentation. Of these presentations, 33 were given in the role of primary presenter, while 9 others were given as a co-presenter.
 - This compares to 56 presentations to 3,694 people in 2019 (56 per presentation), 44 presentations to 1,967 people in 2018 (45 per presentation), to 55 presentations to 2,477 people in 2017 (45 per presentation), 53 presentations to 2,579 people in 2106 (49 per presentation), 29 presentations to 2,579 people in 2105 (70 per presentation), 51

presentations to 2,581 people in 2014 (51 per presentation), and 34 presentations to 1,489 people in 2013 (38 per presentation).

- **Professional Consultations / Questions:** Individual consultations related to grain and bioenergy market situation/outlook, farm bill, and grain price risk management issues were provided to 117 Extension clientele in 2020. This number is down from 189 in 2019, and 150 in 2018, and is comparable to 110 in 2017, 88 in 2016, 90 in 2015, 76 in 2014, 72 in 2013, and 59 in 2012.
- **Total Professional Contacts** related to grain and bioenergy market situation/outlook, farm bill, and grain price risk management issues in 2020 equaled 3,237 clientele and other fellow professionals, down from 3,694 in 2019, but up from 2,519 clientele in 2018, from 2,689 clientele in 2017, from 2,579 clientele in 2016, 2,716 clientele in 2015, and 2,729 in 2014, while being up from 1,607 contacts in 2013, and 1,804 contacts in 2012.
- **Media Articles:** During year 2020, O'Brien wrote or contributed to 64 print and/or electronic media articles in this subject matter area via the www.AgManager.info website. In addition, contributions were made to at least 22 popular agricultural media articles, providing analyses on grain marketing trends and other key market factors.
 - During years 2018 and 2019, respectively, O'Brien wrote or contributed to at least 81 and 65 print and/or electronic media articles in this subject matter area. In addition, contributions were made to 26 and 28 known popular agricultural media articles, providing analyses on grain marketing trends and other key market factors.
- **Radio Programs:** In year 2020, O'Brien contributed to 64 public radio programs focusing on grain market and/or bioenergy market situation/outlook and grain price risk management issues. Of these, 48 were presented as a weekly, state-wide grain market update on KSU Agriculture Today radio program. Another 11 radio interviews were associated with a monthly bioenergy market analysis program with WILL public radio in Illinois.
 - This compares to years 2018 and 2019, respectively, in which O'Brien contributed to 60 and 65 public radio programs focusing on grain market and/or bioenergy market situation/outlook and grain price risk management issues. Of these, 50 and 48 were presented as a weekly, state-wide grain market update on KSU Agriculture Today radio program. Another 7 and 10 radio interviews were associated with a monthly bioenergy market analysis program with WILL public radio in Illinois.
- **Website for Extension Grain Marketing Information:** During 2020 the "*Focused on Grains*" blog had 12,699 views from 8,931 visitors, with 48 posts published. This compares to 9,133 views (on 47 posts) from 5,759 visitors in 2019; 9,311 views (66 posts) in from 5,427 visitors in 2018; 15,947 views (85 posts) from 8,511 visitors in 2017; and 16,515 views (102 posts) from 9,198 visitors in 2016. The purpose of the blog is to supplement the information available on the KSU AgManager.info website, focusing on "grain and bioenergy market information, analysis, and discussion". The website address is: <http://ksugrains.wordpress.com/>
- **Twitter® Social Media for Extension Grain Marketing Information:** On **Twitter®** under the identifier "KSUGrains", there were 92 "tweets" related to grain marketing, bioenergy, and macro economic topics were made in 2020 – compared to 81 "tweets" in 2019, 73 "tweets" in 2018, 79 in 2017, and 118 in 2016.

- The number of followers of the “**KSUGrains**” Twitter© account has grown steady number over time. The “KSUGrains” account had approximately 2,410 **followers** through the end of 2020; compared to 2,379 followers at the end of 2019, 2,244 followers at the end of 2018, 2,127 through the end of 2017, 1,354 through 2016; 1,765 followers through 2015; 1,564 followers through 2014; 1,286 followers in 2013; and 784 followers through the end of 2012.

EXTENSION CROPPING SYSTEMS AND FARM MANAGEMENT PUBLICATIONS, PRESENTATIONS, AND ACTIVITIES

Extension Dryland and Irrigated Cropping Systems, Farmland Leasing, Farm Financial Management and other education presentations from 1995 through 2020.

Year	Public Presentations	Professional Contacts	Radio / TV / Print Media
1995	18	400	--
1996	20	523	--
1997	21	520	--
1998	18	601	--
1999	28	920	--
2000	36	761	--
2001	37	1,029	--
2002	39	687	--
2003-2006	Administrative Responsibilities		--
2007	30	1,290	--
2008	13	631	8
2009	6	142	4
2010	6	182	7
2011	3	111	5
2012	9	171	--
2013	9	442	9
2014	7	268	3
2015	2	205	0
2016	4	158	2
2017	1	248	0
2018	1	248	0
2019	3	109	0
2020	1	70	0

- Presentations: In year 2020, Daniel M. O’Brien gave 1 cropping systems, farmland leasing, and/or farm financial management-related educational presentations to a total of 12 clientele. This compares to 2019 - 2018 - 2017 - 2016 - 2015 in which he gave 1 - 1 - 4 - 2 educational presentations in this subject matter area, respectively.
- Consultations/Questions: Individual consultations were provided to 40 Extension clientele in 2020 related to cropping systems, farmland leasing, and/or farm financial management-related

issues – compared to 37 in 2019, 47 in 2018; 55 in 2017; 50 in 2016; 74 in 2015; 62 in 2014; 60 in 2013; and 54 in 2012.

- Total Professional Contacts related to cropping systems, farmland leasing, and/or farm financial management-related education in 2020 equaled 70 people. This compares to 109 people in 2019, 178 people in 2018, 248 people in 2017; 158 people in 2016; 205 people in 2015; 268 people in 2014; 442 clientele in 2013; from 171 in 2012.

GRADUATE STUDENT SUPERVISION

- Wilson, Christian. “*Grain Marketing Strategies Using Market Forecast Models.*” MAB Thesis completion – December 2021. (Major Professor)
- Swartz, Bradley. “*The Economics of Blending Quality Grades of Durum Wheat.*” MAB Thesis completion – December 2020. (Major Professor)
- Anderson, Megan. “*Economics of Using Mycotoxin Blockers in Livestock Feeds at the Farm Level.*” MAB Thesis completion – May 2020. (Major Professor)
- Blairfontinelle, Gabrielle. “*Price Limits and Wheat Futures Contracts.*” Anticipated MS Thesis completion – May 2020. (Committee Member, Joseph Janzen as Major Professor)
- Uthoff, Jordan. “*Economic Feasibility of Building Grain Storage in Northeast Iowa.*” MAB Thesis completion – December 2019. (Major Professor)
- Schneider, Cassandra. “*Ethanol Plant Predictive Regression Models: The Importance of Plant Data Analytics.*” MS Thesis completion, KSU Department of Agricultural Economics, May 2019. (Committee Member)
- Brokesh, Ed. “*Biomass harvesting cost analysis using field scale testing data.*” Ph.D. Dissertation completion – December 2018. (Outside Chairperson – Dept. of Biological & Agricultural Engineering)
- Sukhin, Chawla. “*U.S. Proso Millet Production and Marketing Opportunities.*” Anticipated MAB Thesis completion – uncertain / on hold. (Major Professor)
- Milstead, Andy. “*Local Grain Market Storage, Transportation Logistics, and Profitability in Northwest Mississippi.*” MAB Thesis completion, August 2017. (Major Professor)
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Current as of January 19, 2021 by Daniel M. O’Brien