

Jeffrey M. Peterson
Professor

Department of Agricultural Economics
Kansas State University (KSU)
Manhattan, KS 66506-4011

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Academic Appointments

Director of Graduate Studies, Department of Agricultural Economics, KSU, 2014-
Professor, Department of Agricultural Economics, KSU, 2013-
Visiting Faculty, Department of Agricultural and Resource Economics, Oregon State University,
2010-2011
Associate Professor, Department of Agricultural Economics, KSU, 2006-2013
Assistant Professor, Department of Agricultural Economics, KSU, 2000-2006

Education

Ph.D. in Agricultural Economics, Cornell University, 2000
M.S. in Agricultural Economics, Cornell University, 1997
B.S. in Agricultural Economics, University of Wisconsin-River Falls, 1994

Honors and Awards

Editor, *Journal of Agricultural and Resource Economics* (incoming), 2015-
Outstanding *Journal of Agricultural and Resource Economics* Article (with N. Hendricks), 2013
Outstanding *Journal of Agricultural and Applied Economics* Article (with Y. Ding), 2013
Outstanding Master's Thesis, Western Agricultural Economics Association (advisor for Nathan
Hendricks), 2008
Outstanding Research Award, Gamma Sigma Delta Honor Society, KSU, 2007
Outstanding Mentor Award, K-State Research and Extension (mentor to Alexander Saak), 2006
Team Award (with Irrigation Water Management Team), K-State Research and Extension, 2006
Outstanding *American Journal of Agricultural Economics* Article (with R.N. Boisvert), 2005
Early Career Award, Gamma Sigma Delta Honor Society, KSU, 2005
Outstanding *Agricultural and Resource Economics Review* Article (with R.N. Boisvert), 2002
Outstanding Dissertation, Dept. of Applied Economics and Management, Cornell Univ., 2001
George F. Warren Award for Outstanding Research by a Graduate Student, Department of
Agricultural, Resource, and Managerial Economics, Cornell Univ., 1999
Outstanding Master's Thesis, American Agricultural Economics Association, 1998
Outstanding Master's Thesis, Northeastern Agricultural and Resource Economics Association,
1998
Outstanding Teaching Assistant, College of Agriculture and Life Science, Cornell Univ., 1997

Publications

Books

Peck, D.E. and J.M. Peterson, Editors. *Climate Variability and Water-Dependent Sectors: Impacts and Potential Adaptations*. London: Taylor and Francis. 2015. ISBN: [978-1-13-880733-4](#)

Refereed Journal Articles

- Peterson, J.M., C.M. Smith, John C. Leatherman, Nathan P. Hendricks, and John A. Fox. "Transaction Costs in Payment for Environmental Service Contracts." *American Journal of Agricultural Economics* 97(January 2015): 219-238. doi: [10.1093/ajae/aau071](#)
- Caldas, M.M., J.S. Bergtold, J.M. Peterson, R.W. Graves, D. Earnhart, S. Gong, B. Lauer, and J.C. Brown. "Factors Affecting Farmers' Willingness to Grow Alternative Biomass Feedstocks for Biofuels across Kansas," *Biomass and Bioenergy* 66(July 2014): 223-231. <http://dx.doi.org/10.1016/j.biombioe.2014.04.009>
- Bulatewicz, T., D. Andresen, S. Auvenshine, J.M. Peterson, and D.R. Steward. "A Distributed Data Component for the Open Modeling Interface." *Environmental Modelling and Software* 57(July 2014): 138-151. <http://dx.doi.org/10.1016/j.envsoft.2014.02.017>
- Peterson, J.M., M. Caldas, J. Bergtold, B. Sturm, R. Graves, D. Earnhart, E. Hanley, and J. Brown. "Economic Linkages to Changing Landscapes." *Environmental Management* 53 (2014): 55-66. <http://dx.doi.org/10.1007/s00267-013-0116-7>
- Harden, C.P., A. Chin, M.R. English, R. Fu, K.A. Galvin, A.K. Gerlak, P.F. McDowell, D.E. McNamara, J.M. Peterson, N.L. Poff, E.A. Rosa, W.D. Solecki, and E.E. Wohl. "Understanding Human-Landscape Interactions in the 'Anthropocene'." *Environmental Management* 53(2014): 4-13. <http://dx.doi.org/10.1007/s00267-013-0082-0>
- Peterson, H.H., J.C. Bernard, J.A. Fox, and J.M. Peterson "Japanese Consumers' Valuation of Rice and Pork from Domestic, U.S., and Other Origins." *Journal of Agricultural and Resource Economics* 38 (April 2013): 93-106. <http://purl.umn.edu/148248>
- Bulatewicz, T., A. Allen, J.M. Peterson, D.R. Steward, S. Staggenborg, and S.M. Welch. "The Simple Script Wrapper for OpenMI: Enabling Interdisciplinary Water Studies." *Environmental Modeling and Software* 39(January 2013): 283-294. <http://dx.doi.org/10.1016/j.envsoft.2012.07.006>
- Smith, C.M., J.M. Peterson, J.C. Leatherman, and J.R. Williams. "A Simulation of Factors Impeding Water Quality Trading." *The Journal of Regional Analysis & Policy* 42(December 2012): 162-176. http://www.jrap-journal.org/pastvolumes/2010/v42/v42_n2_a6_smith_peterson.pdf
- Smith, C.M., J.C. Leatherman, J.M. Peterson, J.M. Crespi, and J. D. Roe. "BMPs For Sale! – Implications from a Case Study in BMP Auctions." *The Journal of Regional Analysis & Policy* 42(December 2012): 151-161. http://www.jrap-journal.org/pastvolumes/2010/v42/v42_n2_a5_smith_leatherman.pdf

- Saak, A.E. and J.M. Peterson. "Groundwater Pumping by Heterogeneous Users." *Hydrogeology Journal* (Special Issue: Economics of Groundwater Management) 20 (August 2012): 835-849. <http://dx.doi.org/10.1007/s10040-012-0854-2>
- Ding, Y. and J.M. Peterson. "Comparing the Cost-Effectiveness of Water Conservation Policies in a Depleting Aquifer: A Dynamic Analysis of the Kansas High Plains." *Journal of Agricultural and Applied Economics* 44 (May 2012): 223-234. <http://purl.umn.edu/123781> (**Outstanding JAAE Article of the Year**)
- Hendricks, N.P. and J.M. Peterson. "Fixed Effects Estimation of the Intensive and Extensive Margins of Irrigation Water Demand." *Journal of Agricultural and Resource Economics* 37 (April 2012): 1-19. <http://purl.umn.edu/122312> (**Outstanding JARE Article of the Year**)
- Bulatewicz, T., X. Yang, J. M. Peterson, S. Staggenborg, S. M. Welch, and D. R. Steward. "Accessible Integration of Agriculture, Groundwater, and Economic Models Using the Open Modeling Interface (OpenMI): Methodology and Initial Results." *Hydrology and Earth System Sciences* 14 (2010): 521-534. <http://www.hydrol-earth-syst-sci.net/14/521/2010/>
- Bulatewicz, T., W. Jin, S. Staggenborg, S. Lauwo, M. Miller, S. Das, D. Andresen, J.M. Peterson, D.R. Steward, and S.M. Welch. "Calibration of a Crop Model to Irrigated Water Use Using a Genetic Algorithm." *Hydrology and Earth System Sciences* 13 (2009): 1467-1483. <http://www.hydrol-earth-syst-sci.net/13/1467/2009/>
- Steward, D.R., J.M. Peterson, X. Yang, T. Bulatewicz, M. Herrera-Rodriguez, D. Mao, and N. Hendricks. "Groundwater Economics: An Object-Oriented Foundation for Integrated Studies of Irrigated Agricultural Systems." *Water Resources Research* 45 (2009): W05430. <http://www.agu.org/pubs/crossref/2009/2008WR007149.shtml>
- Williams, J.R., S. Mooney, and J.M. Peterson. "What is the Carbon Market: Is There a Final Answer?" *Journal of Soil and Water Conservation* 64 (January/February 2009): 27A-35A. <http://www.jswnonline.org/content/64/1/27A.refs>
- Gelso, B.R., J.A. Fox, and J.M. Peterson. "Farmers' Perceived Costs of Wetlands: Effects of Wetland Size, Hydration and Dispersion." *American Journal of Agricultural Economics* 90 (February 2008): 172-185. <http://dx.doi.org/10.1111/j.1467-8276.2007.01056.x>
- Smith, C.M., J.M. Peterson, and J.C. Leatherman. "Attitudes of Great Plains Producers about Best Management Practices, Conservation Programs, and Water Quality." *Journal of Soil and Water Conservation* 62 (September-October 2007): 97A-103A. <http://www.jswnonline.org/content/62/5/97A.extract>
- Saak, A.E. and J.M. Peterson. "Groundwater Use under Incomplete Information." *Journal of Environmental Economics and Management* 54 (September 2007): 214-228. <http://dx.doi.org/10.1016/j.jeem.2006.12.005>
- Gelso, B.R. and J.M. Peterson. "The Influence of Ethical Attitudes on the Demand for Environmental Recreation: Incorporating Lexicographic Preferences." *Ecological Economics* 53 (April 2005): 35-45. <http://dx.doi.org/10.1016/j.ecolecon.2004.01.021>
- Williams, J.R., J.M. Peterson, and S. Mooney. "The Value of Carbon Credits: Is There a Final Answer?" *Journal of Soil and Water Conservation* 60 (March-April 2005): 36A-40A. <http://www.jswnonline.org/content/64/1/27A.refs>

- Peterson, J.M. and Y. Ding. "Economic Adjustments to Groundwater Depletion in the High Plains: Do Water-Saving Irrigation Systems Save Water?" *American Journal of Agricultural Economics* 87 (February 2005): 148-160. <http://dx.doi.org/10.1111/j.0002-9092.2005.00708.x>
- Peterson, J.M. and R.N. Boisvert. "Incentive Compatible Pollution Control Policies under Asymmetric Information on Both Risk Preferences and Technology." *American Journal of Agricultural Economics* 86 (May 2004): 291-306. <http://dx.doi.org/10.1111/j.0092-5853.2004.00579.x> (**Outstanding AJAE Article of the Year**)
- Peterson, J.M. and D.J. Bernardo. "High Plains Aquifer Study Revisited: A 20-Year Retrospective for Western Kansas." *Great Plains Research* 13 (Fall 2003): 179-97. <http://digitalcommons.unl.edu/greatplainsresearch/662/>
- Peterson, J.M., T.L. Marsh, and J.R. Williams. "Conserving the Ogallala Aquifer: Efficiency, Equity, and Moral Motives." *Choices* (First Quarter 2003): 15-18. <http://www.choicesmagazine.org/2003-1/2003-1-04.htm>
- Peterson, J.M., R.N. Boisvert, and H. de Gorter. "Environmental Policies for a Multifunctional Agricultural Sector in Open Economies." *European Review of Agricultural Economics* 29 (December 2002): 423-443. <http://erae.oxfordjournals.org/cgi/content/abstract/29/4/423>
- Peterson, J.M. and R.N. Boisvert. "Control of Nonpoint Source Pollution through Voluntary Incentive-Based Policies: An Application to Nitrate Contamination in New York." *Agricultural and Resource Economics Review* 30(October 2001): 127-138. <http://ageconsearch.umn.edu/handle/31421> (**Outstanding AERE Article of the Year**)

Articles in Proceedings Issues

- Peterson, J.M. and K. Schoengold. "Using Numerical Methods to Address Water Supply and Reliability Issues: Discussion." *American Journal of Agricultural Economics* 90 (December 2008): 1350-1351. <http://dx.doi.org/10.1111/j.1467-8276.2008.01229.x>
- Wheeler, E., B. Golden, J. Johnson, and J. Peterson. "Economic Efficiency of Short-Term Versus Long-Term Water Right Buyouts." *Journal of Agricultural and Applied Economics* 40 (August 2008): 493-501. <http://ageconsearch.umn.edu/handle/46987>
- Upendram, S. and J.M. Peterson. "Irrigation Technology and Water Conservation in the High Plains Region." *Journal of Contemporary Water Research and Education* 137 (September 2007): 40-46. <http://www3.interscience.wiley.com/cgi-bin/fulltext/122371033/PDFSTART>

Articles in Proceedings Issues were selected for presentation and publication by an organizing committee and reviewed by the journal editor, but not by peer reviewers.

Book Chapters

- Peterson, J.M. and C.M. Smith. "Water Quality Markets: Institutional Design and Performance." In D. Gardner and R. Simmons, eds. *Aquonomics: Water Markets and the Environment*. The Independent Institute, 2011.

Peterson, J.M., R.N. Boisvert, and H. de Gorter. "Multifunctionality and Optimal Environmental Policies for Agriculture in an Open Economy." in M.D. Ingco and L.A. Winters, eds. *Agriculture and the New Trade Agenda: Creating a Global Trading Environment for Development*. Cambridge, U.K.: Cambridge University Press, 2004.

Also published in: M.D. Ingco, ed. *Agriculture, Trade, and the WTO: Creating a Trading Environment for Development*. Washington, D.C.: The World Bank, 2003.

Peterson, J.M. and D.W. Norman. "Sustainable Farming Systems in Central and Eastern European Countries." in F.W. Gatzweiler, R. Judis, and K. Hagedorn, eds. *Sustainable Agriculture in Central and Eastern European Countries: The Environmental Effects of Transition and Needs for Change*. Aachen, Germany: Shaker Verlag, 2002.

Book Reviews

Peterson, J.M. Review of *Water Institutions: Policies, Performance and Prospects*, C. Gopalakrishnan, C. Tortajada, and A.K. Biswas, Eds. *International Journal of Water Resources Development* 21(December 2005): 679-682.
<http://dx.doi.org/10.1080/07900620500271136>

Other Publications

Peck, D.E. and J.M. Peterson. "Introduction to the Special Issue on 'Climate Variability and Water-Dependent Sectors: Impacts and Potential Adaptations'." *Journal of Natural Resources Policy Research* 5(July 2013): 73-77.
<http://dx.doi.org/10.1080/19390459.2013.811835>

Chin, A., M. English, K. Galvin, A. Gerlak, C. Harden, P. McDowell, J. Peterson, L. Poff, E. Rosa, and E. Wohl. "Landscapes in the 'Anthropocene:' Exploring the Human Connections." Summary Report of an NSF Workshop held at the University of Oregon, October 2010. <http://clas.ucdenver.edu/ges/landscapes/WorkshopReport10-31-10.pdf>

Peterson, J.M., C.M. Smith, J.C. Leatherman, K.R. Douglas-Mankin, T.L. Marsh, J.A. Fox, M. Lee, and M. Henry. "Integrating Economic and Biophysical Models To Assess The Impacts Of Water Quality Trading." Final Technical Report to the USEPA-NCER, Washington, D.C., 2009.

Peterson, J.M., J.A. Fox, J.C. Leatherman, and C.M. Smith. "Choice Experiments to Assess Farmers' Willingness to Participate in a Water Quality Trading Market." Proceedings of the Workshop, *Market Mechanisms and Incentives: Applications to Environmental Policy*, USEPA, Washington, DC, October 2006.

Peterson, J.M. and D.J. Bernardo. "A Review of Economic Analyses of Water Policies and Irrigation Issues in the High Plains: 1980-2000." Research Report #36, Department of Agricultural Economics, Kansas State University, 2003.

Peterson, J.M. and R.N. Boisvert. "Designing Nonpoint Source Pollution Policies with Limited Information about Both Risk Attitudes and Production Technology." Working Paper 2001-13, Department of Applied Economics and Management, Cornell University, 2001.

Peterson, J.M. and R.N. Boisvert. “Optimal Land Conversion at the Rural-Urban Fringe with Positive and Negative Agricultural Externalities.” Working Paper 2000-18, Department of Applied Economics and Management, Cornell University, 2000.

Peterson, J.M., R.N. Boisvert, and H. de Gorter. “Multifunctionality and Optimal Environmental Policies for Agriculture in an Open Economy.” Working Paper 99-29, Department of Agricultural, Resource, and Managerial Economics, Cornell University, 1999.

Peterson, J.M., H. de Gorter, and B.J. Minten. “Economic Costs of the U.S. Export Enhancement Program: Manna from Heaven or From Taxpayers?” International Agricultural Trade Research Consortium Working Paper #99-2, 1999.

Peterson, J.M. and R.N. Boisvert. “Optimal Voluntary ‘Green’ Payment Programs to Limit Nitrate Contamination under Price and Yield Risk.” Research Bulletin 98-01, Department of Agricultural, Resource, and Managerial Economics, Cornell University, 1998.

Grants

Active Projects

Ariyaratne, C.B., J.M. Peterson, N.E. Quintana Ashwell, N.P. Hendricks, B.C. Briggeman, B.B. Golden, and B. Guerrero. “Effects of Energy and Commodity Prices on Crop Patterns and the Ogallala Aquifer under Alternative Policy Scenarios. USDA-NIFA AFRI. January 2015 – December 2018. \$499,976.

Bergtold, J., J.M. Peterson, J. Williams, M. Langemeier, and S. Staggenborg. “Small and Medium Size Farmers` Ability and Willingness to Supply Carbon Offsets through Carbon Markets and Conservation Crop Production.” USDA-NIFA AFRI. July 2011 – June 2015. \$499,334.

Williams, J., M. Langemeier, J.M. Peterson, and J. Bergtold. “Meeting the Need for M.S. and Ph.D. Scholars Trained in the TESA of Agricultural Management and Economics.” USDA-NIFA National Needs Graduate Fellowships. January 2011 – August 2015. \$236,000.

Peterson, J.M., J. Bergtold, L. Kulcsar, and T. Selfa. “Farmers’ Decisions to Grow Crops for Fuel (Kansas State University Portion).” Kansas NSF-EPSCoR. October 2009 – September 2015. \$830,752. Project website: <http://www.ipsr.ku.edu/CEP/BACC/>

Rezac, M., K. Douglas-Mankin, J.M. Peterson, and P. Pfromm. “IGERT: From Crops to Commuting: Integrating the Social, Technological, and Agricultural Aspects of Renewable and Sustainable Biorefining (I-STAR).” NSF-IGERT. September 2009 – August 2015. \$3,199,996. Project website: <http://igert.ksu.edu/>

Completed Projects

“Hyper-extractive Economies and Sustainability: Policy Scenarios for Sustainable Water Use in the High Plains.” Co-Principal Investigator. NSF-CNH. September 2009 – August 2014. \$1,499,999.

- “Impact of Alternative Water Policies on Rural Economies and Aquifer Hydrology.” USDA-ARS Ogallala Aquifer Program. Co-Principal Investigator. January 2007 – September 2011. \$266,500.
- “Meeting the National Need for Scholars Trained in the Economics and Management of Water Resources and the Environment.” Principal Investigator. USDA/CSREES National Needs Graduate Fellowships. November 2006 – November 2011. \$252,000.
- “Feasibility Assessment of Water Pollution Trading in Kansas.” Kansas Department of Health and Environment – U.S. Environmental Protection Agency 319 Nonpoint Source Fund Program. Co-Principal Investigator. October 1, 2005 – June 30, 2010. \$142,850.
- “Forecasting Ecological Change in the Central Plains.” Kansas NSF EPSCoR. Investigator. April 2006 – March 2009. \$3,000,000.
- “Evaluation of Policy Options Aimed at Achieving a Reduction in Groundwater Consumption in Western Kansas.” USDA/CSREES NRI Program. Co-Principal Investigator. September 2006 – August 2009. \$83,500.
- “Integrating Economic and Biophysical Models to Assess the Impacts of Water Quality Trading.” Principal Investigator. Environmental Protection Agency-Science to Achieve Results Program, January 1, 2005 – December 31, 2008, \$376,165.
- “Consortium for Global Research on Water-Based Economies (GRoWE): Scientific Discovery of Socio-Economic and Natural Processes Associated With Water.” Co-Investigator. Kansas State University Targeted Excellence Initiative, July 1, 2004 – June 30, 2008, \$300,000.
- “Strategically Positioning K-State to Benefit from NSF’s CUAHSI and NEON Programs.” Co-Investigator. Kansas State University Targeted Excellence Initiative, July 1, 2005 – June 30, 2008, \$381,790.
- “Economic and Policy Implications of Underground Water Use in the Southern Ogallala Region – FY06.” USDA/ARS Ogallala Aquifer Program. Co-Principal Investigator. September 2006 – September 2008. \$32,500.
- “Economic and Policy Implications of Underground Water Use in the Southern Ogallala Region – FY05.” USDA/ARS Ogallala Aquifer Program. Principal Investigator. September 2005 – September 2007. \$37,500.
- “Research and Development of a Water Allocation Risk Analysis Tool (WARAT).” USDA/RMA. Co-Investigator. October 2006 – September 2008, \$698,952.
- “Water Conservation—Increased Efficiency in Usage,” Co-Principal Investigator, USDA-CSREES Special Grant, August 1, 2000 – July 31, 2007, \$430,570.
- “Groundwater Modeling of the Ogallala Aquifer in Northwest Kansas.” Kansas Water Office. Co-Principal Investigator. September 2006 – September 2008. \$40,000.
- “The Economic Impact of the Conservation Reserve Program on Households and Counties.” Co-Investigator. National Science Foundation Doctoral Dissertation Research Improvement Award (Mary Dobb’s Dissertation project), March 1, 2005 – February 28, 2007, \$9,850.

- “Economic and Policy Implications of Underground Water Use in the Southern Ogallala Region – FY04.” USDA/ARS Ogallala Aquifer Program. Co-Principal Investigator. September 2003 – September 2005. \$40,000.
- “Evaluation of Water Conservation from More Efficient Irrigation Systems.” Principal Investigator. Kansas Water Office, February 18, 2005 – June 30, 2006, \$26,665.
- “Developing an Economic Tool to Predict the Value of Water Rights.” Co-Principal Investigator. Kansas Water Resources Research Institute, March 1, 2005 – February 28, 2006, \$30,000.
- “Economic and Policy Implications of Underground Water Use in the Southern Ogallala Region – FY03.” USDA/ARS Ogallala Aquifer Program. Co-Principal Investigator. September 2003 – September 2005. \$60,000.
- “Assessing the Feasibility of a Nonpoint Source Water Pollution Trading Program for Kansas: An Exploration of Factors Influencing Program Effectiveness.” Co-Principal Investigator. Kansas Fertilizer Research Fund, October 1, 2003 – September 30, 2005, \$61,412.
- “Planning Grant: Establishing A Center for Research on Groundwater Based Economies,” Co-Principal Investigator. Kansas NSF EPSCoR Planning Grant, October 1, 2003 – September 30, 2005, \$70,000.
- “Development of a Framework for a Coupled Hydrologic-Economic Modeling Tool,” Co-Principal Investigator, Kansas Water Resources Research Institute, March 1, 2002 – February 28, 2003, \$41,487.

Instruction and Student Advising

Courses Taught

- Dynamic Methods in Resource and Environmental Economics* (PhD special topics course), KSU, Spring 2014.
- Natural Resource Policy* (MS-level environmental economics), KSU, Spring 2002, Spring 2004, Spring 2008, Fall 2008, Fall 2009, Fall 2011, Fall 2012, Fall 2013, Fall 2014.
- Economic Dynamics of Natural Resources* (PhD-level dynamic optimization and natural resource economics), KSU, Spring Semester 2001, 2005, 2007, 2009, 2012, 2013.
- Environmental Economics and Policy* (undergraduate/principles level), Oregon State University, Spring Quarter 2011.
- Introduction to Agricultural Resources and Environmental Management* (interdisciplinary team-taught course, videolinked to Ecole d'Ingénieurs de Purpan, Toulouse, France), KSU, Spring 2008, Spring 2009.
- Current Agricultural and Natural Resource Policy Issues*, KSU, Spring 2007, Spring 2008.
- Water and Society* (interdisciplinary team-taught course on water resource studies), KSU, Fall 2006, Fall 2007, Fall 2008, Spring 2013.
- Agricultural Market Structures* (second in a two-course sequence of intermediate microeconomics), KSU, Spring Semester, 2001 – 2006.

Mathematics Review (two-week course for incoming graduate students in agricultural and resource economics), Cornell University, Summer 1997, 1998.

Supplement to Principles of Microeconomics (supplemental course for academically at-risk students), Cornell University, Spring Semester 1998.

Recitation Section, Principles of Macroeconomics, Cornell University, Spring Semester 1997.

Guest Lectures

Sustainable Bioenergy Seminar, Fall 2012

Applied Trade Analysis, Oregon State University, Fall 2010

Natural Resources and Environmental Science Capstone, KSU, Spring 2009, Spring 2014

MSc Eurama Program, Ecole d'Ingénieurs de Purpan, Toulouse, France, Fall 2007, Fall 2008, Fall 2009

Agriculture and Environment, Ecole d'Ingénieurs de Purpan, Toulouse, France, Fall 2005

Research Methods in Economics, KSU, Spring 2004, Fall 2004, Fall 2005, Fall 2009, Spring 2014

Design of Groundwater Flow Systems, KSU (Department of Civil Engineering), Spring 2003

Current Agricultural and Natural Resource Policy Issues, KSU Spring 2002, Spring 2003

Agricultural Policy, Cornell University, Spring 1998

Service as Major Professor

Krystal Drysdale (co-Major Professor), Ph.D., in progress

Rulianda Wibowo, Ph.D., in progress

Michael Lindbloom, Ph.D., in progress

Nicolas Quintana-Ashwell, Ph.D., in progress

Pedro Garay, Ph.D., in progress. Thesis: "The Impact of Climate Change on the effectiveness of Water Conservation Policies in Western Kansas and the Ogallala Aquifer"

Alexi Thompson, Ph.D. (2012). "Three Essays on the Environmental Kuznets Curve for Water Pollution."

Sreedhar Upendram, Ph.D. (2009). "Irrigation Scheduling, Crop Choices and Impact of an Irrigation Technology on the Kansas High Plains Aquifer."

Matt Clark, M.S. (2009). "Effects of High Commodity Prices on Western Kansas Crop Patterns and the Ogallala Aquifer."

Janet Schlosser, M.S. (2008). "An Examination of County-Level Labor Market Responses to Economic Growth in Kansas." Nominated for WAEA Outstanding Thesis Award.

Monica Lopez-Andreu, Ph.D. (2008). "Studies on the Economic Efficiency of Kansas Farms."

Nathan Hendricks, M.S. (2007). "Estimating Irrigation Water Demand with a Multinomial Logit Selectivity Model." WAEA Outstanding Thesis Award.

Luc Valentin, Ph.D. (2006). "Welfare Impacts of GMO Adoption along the Marketing Chain." Nominated for AAEE Outstanding Dissertation Award.

- Ya Ding, Ph.D. (2005) "The Choices of Irrigation Technologies and Groundwater Conservation in the Kansas High Plains: A Dynamic Analysis." Nominated for AAEA Outstanding Dissertation Award.
- Jeremy Fredrickson, M.S. (2004) "The Impact of Declining Well Capacities on Kansas Irrigators' Net Returns."
- Craig Smith, M.S. (2004) "A Water Quality Trading Simulation for Northeast Kansas." Nominated for WAEA Outstanding Thesis Award.
- Joshua Roe, B.S. Honors Thesis (2003) "How Much Will They Pump? Estimating the Demand for Groundwater for Corn Irrigation in Western Kansas using Micro-level Data."
- Brett Gelso, Ph.D. (2002) "Combining Revealed and Stated Preference Data to Estimate the Nonmarket Value of Green Technologies." (co-supervised by T. Kastens). Nominated for AAEA Outstanding Dissertation Award.
- Chad Hendricks, B.S. Honors Thesis (2002) "Factors Affecting Water Use in Western Kansas."

Service as Thesis Committee Member

- Quazi Fidia Farah, Ph.D. in Economics, in progress
- Jason Walter, Ph.D. in Economics, in progress
- Melissa Lynes, Ph.D., in progress
- Sheng Gong, Ph.D., in progress
- Graciela Andrango, Ph.D., in progress
- Elizabeth Canales, Ph.D., in progress
- Brian Lauer, Ph.D., in progress
- Emrah Er, Ph.D., in progress
- Chaewanet Bunchai, Ph.D. in Economics, in progress
- Mercy Palamuleni, Ph.D. in Economics, 2014
- Jason Fewell, Ph.D., 2013
- Mark Melichar, Ph.D. in Economics, 2013
- Albert Aiori, Ph.D. in Sociology, 2013
- Peiwen Wang, Ph.D. in Landscape Architecture, 2013
- Todd Guilfoos, Ph.D. in Economics at Binghamton University, 2013
- Jena Boindolilo, M.S. in Landscape Architecture, 2013
- Chris Youderian, Ph.D. in Economics, 2012
- Hugo Remaury, M.S., 2011
- Jeff Savage, Ph.D. at University of Illinois, 2011
- Craig Smith, Ph.D., 2011
- Ben Bolender, Ph.D. in Sociology, 2010
- James Arati, M.A.B., 2009
- Ming-Chieh Lee, Ph.D. in Biological and Agricultural Engineering, 2009
- Edwin Ndum, Ph.D. in Statistics, 2009 (outside chair)
- Niranjan Baradi, M.S., 2009
- Alexandra Gregory, Ph.D., 2008
- Robert Smith, Ph.D. in History, 2008 (outside chair)
- Bill Golden, Ph.D., 2005
- Jill Enz, M.S. in Landscape Architecture, 2004
- Mauricio Herrera-Rodriguez, M.S. in Civil Engineering, 2004

Adriana Chacon, M.S., 2004
Fengxia Dong, Ph.D., 2003
Justin Taylor, M.S., 2003
Taryn Aller, M.S., 2002
Sara Schumacher, Ph.D., 2002

Outreach

Outreach Publications

Dumler, T., B. Golden, N. Hendricks, J. Leatherman, J. Peterson, and G. Regier. "The Values of Groundwater: A Discussion of Groundwater Use in Western Kansas." August 2012.

Follett, R., S. Mooney, J. Morgan, K. Paustian, L. Hartwell Allen, S. Archibeque, J. Baker, S. Del Grosso, J. Derner, F. Dijkstra, A. J. Franzluebbers, H. Janzen, L.A. Kurkalova, B. A. McCarl, S. Ogle, W. J. Parton, J. M. Peterson, C. W. Rice, G. P. Robertson, M. Schoeneberger, T. O. West, and J. Williams. "Carbon Sequestration and Greenhouse Gas Fluxes in Agriculture: Challenges and Opportunities." Task Force Report 142, Council for Agricultural Sciences and Technology, October 2011.
<http://www.agron.iastate.edu/courses/agron515/CASTReport142.pdf>

Golden, B., J. Bergtold, M. Boland, K. Dhuyvetter, T. Kastens, J.M. Peterson, S. Staggenborg. "A Comparison of Select Cost-Benefit Studies on the Impacts of H.R. 2454 on the Agriculture Sector of the Economy." December 2009.
http://www.agmanager.info/policy/commodity/analysis/Comparison_Cost-Benefit_Studies_HR2454_12-10-09.pdf

Clark, M., J.M. Peterson, and B. Golden (2009). "Effects of High Commodity Prices on Western Kansas Crop Patterns and the Ogallala Aquifer." *KFMA Newsletter* 3(6): 1-3.
http://www.agmanager.info/news/KFMA_News/Archives/June_09.pdf

Golden B.B., and J.M. Peterson. "Evaluation of Water Conservation from More Efficient Irrigation Systems." Staff Paper 06-03, Department of Agricultural Economics, Kansas State University, June 2006.

Golden, B., T. Kastens, K. Dhuyvetter, and J.M. Peterson. "Developing an Economic Tool to Predict the Value of Water Rights." Department of Agricultural Economics, Kansas State University, May 2006.

Selected Outreach Presentations and Legislative Testimony

Peterson, J.M. and J. Mauslein. "Kansas Farmers' Adaptations to Groundwater Depletion: Results from a Statewide Survey." Governor's Conference on the Future of Water in Kansas, Manhattan, November 2014.

Peterson, J.M. "Motivations and Impediments Underlying Irrigation Decisions." Kansas Water Symposium, University of Kansas, September 2014.

Peterson, J.M., and R.W. Graves. "Cropping Decisions, Risk Management Practices, and Willingness to Supply Biomass." Risk and Profit Conference, Manhattan, August 2011.

Peterson, J.M. "Federal Climate Legislation: Potential Effects on Agriculture." Invited presentation at the WIBW Radio Farm Profit Conference and at the Chase County Crops and Livestock School, February 2010.

Peterson, J.M., M. Clark, and B. Golden. "Water Conservation in the Ogallala Region of Kansas." Presentation to Congressional Staff, Manhattan, Kansas, August 2009.

Peterson, J.M. and B.B. Golden. "Evaluation of Water Conservation from More Efficient Irrigation Systems." Invited presentation to the Kansas Water Authority, Topeka, Kansas, January 2006. Also presented at the State Conservation Commission Spring Workshops in Hays and Garden City Kansas, March 2006.

Leatherman, J.C., J.M. Peterson, and K.R. Mankin. "Is Water Quality Trading a Policy Option for Kansas?" Presentation at the Water and the Future of Kansas Conference, Topeka, Kansas, March 2005.

Peterson, J.M. "Economics of Irrigation Transitioning." Testimony to the Kansas Legislature Special Committee on Environment, WaKeeney, Kansas, October 2004.

Peterson, J.M. "Ogallala Aquifer: Economic Impacts." Invited Presentation to the Governor's Sub-Cabinet for Natural Resources, Manhattan, Kansas, August 2004.

Peterson, J.M. "The Economic Future of Western Kansas." Invited presentation to the Kansas Water Office Groundwater Marketing Technical Advisory Committee, Hays, Kansas, January 2004.

Peterson, J.M. and D.R. Steward. "Modeling Coupled Hydrologic and Economic Processes in the Kansas High Plains." Water and the Future of Kansas Conference, Manhattan, KS, March 2003.

Peterson, J.M., T.L. Marsh, and J.R. Williams. "Pump It If You Can: Kansas Water Policy at the Crossroads." Kansas State University Department of Agricultural Economics Risk and Profit Conference, Manhattan, Kansas August 2001.

Radio Interviews

Hendricks, N.P. and J.M. Peterson. Radio interview on groundwater irrigation demand in western Kansas. *Agriculture Today*, November 2011.
<http://www.ksre.ksu.edu/news/p.aspx?tabid=66>

Peterson, J.M. Radio interview on water quality trading, *Agriculture Today* November 2009.
http://www.agmanager.info/news/Radio/JPeterson_11-02-09.mp3

Service

Intramural

Agricultural Resources and Environmental Management (AREM) Graduate Certificate Board, 2011-
 Natural Resource and Environmental Science Secondary (NRES) Major Governing Board, 2012-
 Gamma Sigma Delta Student Teaching and Research Recognition Committee, 2008-2013
 KSU GIScience Commons Steering Committee, 2008-2010
 KSU Data Commons Steering Committee, 2007-2010
 KSU Lead Delegate, Universities Council on Water Resources, 2005-2012
 Agricultural Economics Seminar Committee, 2008-2010, 2012-2014
 Agricultural Economics Microeconomics Qualifying Exam Committee, 2005-2008
 Agricultural Economics Faculty Position Search Committee, 2005, 2014
 Agricultural Economics Ph.D. Preliminary Exam Committee, 2002 (committee chair for June
 2002 exam), 2010, 2012-13
 Economics-Agricultural Economics Joint Ph.D. Program Committee, 2002-2005
 Agricultural Economics Graduate Program Committee, 2001-2005

Extramural

Graduate Paper Competition Judge, Western Agricultural Economics Association, 2014
 Outstanding M.S. Thesis Award Committee, Western Agricultural Economics Association, 2013
 Guest Editor, *Journal of Natural Resources Policy Research*, 2012-13
 Outstanding Published Research Award Committee, Western Agricultural Economics
 Association, 2012
 Outstanding M.S. Thesis Award Committee, Agricultural and Applied Economics Association,
 2010-2011
 Selected Presentations Committee, Agricultural and Applied Economics Association, 2008-2010
 Book Review Editor and Editorial Board Member, *Journal of Natural Resource Policy Research*,
 2008-
 Director, Western Agricultural Economics Association, 2005-2007
 Chair, W-1190 Regional Project, 2005
 Vice-Chair, W-190 Regional Project, 2004
 Secretary, W-190 Regional Project, 2003
 Economic Statistics and Information Resources Committee, American Agricultural Economics
 Association, 2002-2004

Manuscript Reviewer for: *Journal of Environmental Economics and Management*, *American Journal of Agricultural Economics*, *Natural Resources Modeling*, *Review of Agricultural Economics*, *Journal of Agricultural and Resource Economics*, *Hydrogeology Journal*, *Canadian Journal of Agricultural Economics*, *Environmental and Resource Economics*, *Marine Resource Economics*, *Water Resources Research*, *Journal of Regional Analysis & Policy*, *Agricultural and Resource Economics Review*, *European Review of Agricultural Economics*, *BioScience*, *International Journal of Water Resources Development*, *Economics of Education Review*, *Journal of Water Resources Planning and Management*, *Water Policy*

Grant Proposal Reviewer for: USDA-ERS, USDA-NIFA-AFRI, USDA-CSREES Conservation Effects Assessment Program, USDA-CSREES Small Business Innovation Research Program, Kansas Water Resources Research Institute, NIWR-USGS Competitive Grants Program, Oklahoma Water Resources Research Institute, Farm Foundation, Legislative-Citizen Commission on Minnesota Resources

Member of: Agricultural and Applied Economics Association, American Economic Association, Association of Environmental and Resource Economists, Western Agricultural Economics Association, Resource Modeling Association

Last updated: January 8, 2015