

Craig M. Smith

Department of Agriculture
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Fort Hays State University
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Education:

Kansas State University

- Ph.D. in Agricultural Economics
- USDA National Needs Graduate Fellow in the “Economics and Management of Water Resources and the Environment”
- Dissertation title: “An analysis of alternative soil, nutrient, and water management strategies” consisting of two papers:
 - “From the Dust Bowl to the Mud Bowl: The Economics of Reservoir Sedimentation”
 - “A Simulation of Factors Impeding Water Quality Trading”
 - Winner of the Gamma Sigma Delta (the honor society of agriculture) Outstanding Dissertation Award, 2012
 - Honorable Mention Recipient for Universities Council on Water Resources (UCOWR) Outstanding Dissertation Award, 2012
- Graduated August 2011

Kansas State University

- Masters of Science in Agricultural Economics
- Thesis title: “A Water Quality Trading Simulation for Northeast Kansas” (nominated for WAEA Outstanding Thesis Award)
- Graduated December 2004

Kansas State University

- Bachelor of Science in Agricultural Technology Management
- Graduated May 2003

Professional Experience:

Assistant Professor of Agricultural Business,
Fort Hays State University, Hays, KS

Aug. 2011-present

- 60% instruction (12 credit hours each semester), 20% scholarship, 20% service
- Areas of expertise: Precision Agriculture, Agricultural Marketing, Farm Management, Water and Natural Resource Economics, Data and Quantitative Analysis, Risk Management

Research Assistant, USDA National Needs Fellow,
KSU Dept. of Agricultural Economics, Manhattan, KS

Aug. 2008-Aug. 2011

- Analyzed sedimentation reduction strategies for Tuttle Creek Lake
- Evaluated feasibility of Water Quality Trading projects in Kansas watersheds
- Analyzed the cost-effectiveness of BMP auctions

- Examined the economics of precision agriculture and other farm management decisions
- Provided assistance with ongoing Watershed Economist activities

Water Resource Economist, KSU Research and Extension, Manhattan, KS *Feb. 2006-Aug. 2008*

- Provided economic analysis to Watershed Restoration and Protection Strategies (WRAPS) projects throughout the state of Kansas
- Created spreadsheet based BMP decision-assistance tools to assist stakeholders in evaluating the economic benefits and costs of BMPs
- Conducted economic impact studies of recreation at federal reservoirs
- Worked with stakeholders to evaluate the feasibility of a Water Quality Trading program in Kansas

Agricultural & Natural Resource Engineering Specialist, MU Extension, Gallatin, MO *Jan. 2005-Feb. 2006*

- Delivered programs, presentations, and technical assistance to communities in an eight-county region
- Presented at numerous Field Days, Short Courses, Schools, Civic Groups, 4-H Camps, and other Educational events on a variety of Agricultural and Natural Resource topics
- Wrote over 35 articles that were published in local newspapers, regional newsletters, and various other specialized publications on a regular basis
- Managed the finances and programs of Daviess County Extension as County Program Director
- Served on two county's Soil and Water Conservation District Boards (Daviess and Harrison Counties)

Research Assistant, KSU Dept. of Agricultural Economics, Manhattan, KS *Aug. 2003-Dec. 2004*

- Assisted professors in research and analyzing activities
- Presented information to committees as well as lay audiences
- Developed my thesis on Water Quality Trading
- Developed trading simulation computer program using MATLAB

Farm-hand, Peirce Farm, Hutchinson, KS *May 1994-Dec. 2003*

- Performed all farm jobs including: operation of equipment, welding, construction
- Farm consisted of 1,500 acres wheat, milo, soybeans, corn and alfalfa
- Assisted with 70,000 bushel grain elevator for certified wheat seed operation

Mechanic, Bottger's Marine, Manhattan, KS *Aug. 2001-Aug. 2003*

- Maintenance and repair of pleasure boats

Construction laborer, Osage Constructors, Fulton, MO *Summers-1999, 2001*

- Revamped a lock and dam to allow for greater barge access on Arkansas River
- Built lock gates on the Ohio River, Louisville, Kentucky

Farm-hand, Wagler Farms, Bean Blossom, IN *Summer 2001*

- Various jobs in the operation of a 300-head dairy herd and 1000 acres of hay, silage, and grain

Classroom Teaching:

Fort Hays State University:

The following is a summary of on-campus course evaluations from Fall 2011 – Spring 2014. The results shown are calculated by taking a simple average across all courses where:

1: Strongly Disagree - 2: Disagree - 3: Neutral - 4: Agree - 5: Strongly Agree

Question	C.M. Smith Average
As a result of this course, my knowledge/skills in the subject increased.	4.53
My instructor seems genuinely interested in helping students understand the content of the course.	4.66
My instructor encourages me to engage in critical reflection and analysis.	4.47
I would recommend this instructor to other students.	4.67

Spring 2014:

- AGRI 400C – Technology in Agriculture, 21 students
- AGRI 400D – Computer Applications for Agriculture, 18 students
- AGRI 410 – Agricultural Finance, 24 students
- AGRI 470 – Agribusiness Firms Management and Marketing, 15 students
- IDS 300 – Economic Ideas and Current Issues (online), 25 students

Guest Lecturer for Hutchinson Community College Agriculture majors half-day workshop, Hays, KS. “Calculating Machinery Costs and the Use of Precision Ag Software.” April 24, 2014.

Guest Lecturer for Mr. Glaze’s AGRI 211 Class covering “Basics of Futures Markets and Hedging.” April 21 – May 9, 2014.

Fall 2013:

- AGRI 320 – Fundamentals of Agricultural Commodity Marketing, 33 students
- AGRI 400B – Technology in Agriculture, 22 students
- AGRI 400D – Computer Applications for Agriculture, 24 students
- AGRI 470 – Agribusiness Firms Management and Marketing, 17 students
- IDS 300 – Economic Ideas and Current Issues (online), 27 students

Guest Lecturer for Mr. Glaze’s AGRI 211 Class covering “Basics of Futures Markets and Hedging.” November 4 – December 6, 2013.

Spring 2013:

- AGRI 211 – Marketing Farm Products, 35 students
- AGRI 400C – Advanced Farm Management, 17 students
- AGRI 400D – Computer Applications for Agriculture, 19 students
- AGRI 470 – Agribusiness Firms Management and Marketing, 18 students
- IDS 300 – Economic Ideas and Current Issues (online), 26 students

Fall 2012:

AGRI 211 – Marketing Farm Products, 38 students
AGRI 320 – Fundamentals of Agricultural Commodity Marketing, 29 students
AGRI 400B – Technology in Agriculture, 21 students
AGRI 410 – Agricultural Finance, 23 students

Spring 2012:

AGRI 211 – Marketing Farm Products, 35 students
AGRI 400C – Technology in Agriculture, 18 students
AGRI 456 – Agricultural Resource Valuation, 20 students
AGRI 470 – Agribusiness Firms Management and Marketing, 22 students

Fall 2011:

AGRI 211 – Marketing Farm Products, 42 students
AGRI 320 – Fundamentals of Agricultural Commodity Marketing, 23 students
AGRI 400B – Technology in Agriculture, 21 students (new course)

Guest Lecturer in Mr. Paul Clark’s undergraduate classes in Agribusiness Management at Nebraska College of Technical Agriculture, Curtis, NE. “Analyzing the Economics of Precision Agricultural Technologies.” November 30, 2011.

Kansas State University:

Guest Lecturer in Dr. Leah Tsoodle’s undergraduate class (AGEC 610) in Natural Resource Economics, 2011.

Instructor for the mandatory Math Review course (10-day course which met for 1.5 hours each day) for incoming M.S. and Ph.D. students (10 in attendance) in the Agricultural Economics Department, Spring 2011.

Guest Lecturer in Mr. Mick Glaze’s undergraduate class (AGRI 311) in Farm Management at Fort Hays State University, Fall 2010.

Instructor for the mandatory Math Review course (10-day course which met for 1.5 hours each day) for incoming M.S. and Ph.D. students (20 in attendance) in the Agricultural Economics Department, Fall 2010.

Guest Lecturer in Dr. Jeff Williams’ undergraduate class (AGEC 525) in Environmental and Natural Resource Economics, 2009.

Guest Lecturer in Dr. Jeff Peterson’s undergraduate class (AGEC 610) in Natural Resource Economics, 2007, 2008.

Guest Lecturer in Chris Lavergne’s graduate class (AGCOM 712) in Environmental Communications, 2008.

Graduate Teaching Assistant for Dr. Jeff Williams’ undergraduate class (AGEC 525) in Environmental and Natural Resource Economics, 2003.

Departmental and Institutional Service:

Fort Hays State University

- Department of Agriculture University Faculty Senate representative, 2014-present
- Search committee chair for Tenure Track Agricultural Business position, 2014
- Co-advisor for Kansas Academy of Math and Science (KAMS), MaRyka Smith, 2014-present
- Co-advisor of the Agribusiness Club, 2011-present
- Department of Agriculture FAC representative for College of Health and Life Sciences, 2011-2014
- Faculty research advisor for Kansas Academy of Math and Science (KAMS), Logan Smith, 2011-2012

Honors/Awards/Associations:

Fort Hays State University

- 2013-14 University Faculty Member of the Year Award recipient
- 2014 Research and Creative Activities summer salary recipient
- 2013-14 College of Health and Life Sciences Outstanding Scholarship Award recipient
- 2013 University Research/Scholarly Activity Award recipient for the Fall 2013 semester
- Nominated by students for the FHSU Pilot Award (excellence in teaching) for both 2012-13 and 2013-14 academic years, but not eligible to win due to being employed <3 years
- 2013-14 member of the FHSU TigerLeaders program – nominated by administration
- 2013 Member of Southern Agricultural Economics Association
- 2012 Outstanding Faculty Award (Greek Life) – nominated by the men of Alpha Gamma Rho
- 2012 Research and Creative Activities summer salary recipient

Kansas State University Research and Extension

- 2012 Kansas State University Gamma Sigma Delta Ph.D. Research Award recipient
- 2011 Golden Key International Honour Society of Kansas State University Graduate Research Assistant of the Year Award
- Recipient of the 2010-2011 Tim Lim Graduate Student Scholarship, \$2,000 award
- Recipient of the 2010-2011 Kenneth E. Grant Research Scholarship from the Soil and Water Conservation Society, \$1,300 award
- Recipient of KSU Graduate School Travel Scholarships, \$600 in total, June 2009-July 2010.
- Co-winner of the top poster award for the 2010 Capitol Graduate Research Summit in Topeka, KS, \$600 award from KansasBio and Kansas State University
- Member of Agricultural and Applied Economics Association, 2010.
- CSREES Partnership Award for Mission Integration, 2009.
- Elected as a member of Gamma Sigma Delta (Honor Society of Agriculture, ETA Chapter), 2009-present.
- Vice-President of Graduate Students in Agricultural Economics (GSAE) Association, 2009-2010
- Member of the Western Agricultural Economics Association, 2009-2011
- Member of the Mid-Continent Regional Science Association, 2008
- Member of Epsilon Sigma Phi (ESP): Alpha Rho - Kansas Chapter, 2007-2008
- Member of Soil and Water Conservation Society, 2007-2011

- Member of the 2007 Kansas Environmental Leadership Program (KELP) which focuses on developing the leadership skills of people who work in natural resources and environmental fields, January 2007 – December 2007.

University of Missouri Extension

- Regional contact specialist for the Missouri AgrAbility program which provides assistance to disabled and elderly farmers, so they can continue farming – made farm visits and assisted at conferences
- Member of Missouri Agricultural Extension Professionals (MAEP), 2005

Kansas State University – undergraduate and M.S. graduate student

- Scholarships received: KSU Foundation, Peirce Memorial, Ark Valley Electric Cooperative, Haven Booster Club, Poos WaterPack, College of Engineering, KSU Athletics, Big 12 Postgraduate Scholarship
- KSU Track and Field Team (Javelin and Long Jump), Team Captain and School Record Holder in Javelin, 237'8" (2002)
- KSU FCA (Fellowship of Christian Athletes), member 2000-2004
- Academic All-Big 12 selection, 2002-2004
- Verizon/Cosida Academic All-District VII Selection, 2002-2003
- Big 12 Male Track and Field Athlete of the Week, May 20, 2002
- Alpha Mu (honorary society), member 2001-2003
- Agricultural Technology Management Club, member 1999-2003

Computer Skills:

- Very proficient in the use of the following programs:
 - MS Office Suite (Word, Excel, PowerPoint)
 - MATLAB - a matrix based, numerical computing environment used for simulation, data management, econometrics, and statistics
 - Stata - a general purpose statistical package used for data management, econometrics, and statistics
 - IMPLAN - a program used to estimate economic impacts of exogenous changes to a regional economy (completed both Beginner and Advanced Training sessions)
- Skilled in the use of the following programs:
 - SAS - a general purpose database/statistical package used for data management, econometrics, and statistics
 - R - a programming language and software environment for statistical computing and graphics, free software

Grants Funded: (total of \$621,590 received since 2005)

Stark, W., C.M. Smith, and J. Greathouse. "Unmanned Aerial Vehicles for the Lab and Classroom." Fort Hays State University College of Health and Life Sciences. Hansen Funding. Funds received: \$23,000. May 2014.

Smith, C.M., J.R. Greathouse, S. Sears, and D. Conard. "Enhancing the technical and analytical skills of our farmers, technicians, and crop consultants." United States Dept. of Agriculture, National Institute of Food and Agriculture (USDA-NIFA). Capacity Building for Non-Land Grant Colleges of Agriculture (NLGCA). Funds received: \$277,243. October 1, 2012 – September 30, 2015.

Nejadhashemi, A.P., C.M. Smith, J.R. Williams, B.B. Golden, and K.R. Mankin. "An analysis of sedimentation reduction strategies for Tuttle Creek Lake." Kansas Water Resource Institute. Funds received: \$89,433. Grant match: \$89,820. March 2008 – February 2011.

Smith, C.M., J.C. Leatherman, and A.P. Nejadhashemi. "Watershed Economist and Modeler assistance with 2008 Pomona BMP Auction." Kansas Department of Health and Environment. Funds received: \$19,610. Grant match: \$13,104. January 2008 – December 2009.

Smith, C.M. and J.C. Leatherman. "Economic Analysis for Upper Arkansas WRAPS." Kansas Department of Health and Environment. Funds received: \$16,681. January 2008 – December 2009.

Smith, C.M. and J.C. Leatherman. "Economic Analysis for Upper and Lower Cottonwood WRAPS." Kansas Department of Health and Environment. Funds received: \$13,346. January 2008 – December 2009.

Smith, C.M. and J.C. Leatherman. "Economic Analysis for Neosho WRAPS." Kansas Department of Health and Environment. Funds received: \$13,345. January 2008 – December 2009.

Smith, C.M. and J.C. Leatherman. "Economic Analysis for Neosho Headwaters WRAPS." Kansas Department of Health and Environment. Funds received: \$13,346. January 2008 – December 2009.

Smith, C.M. and J.C. Leatherman. "Economic Analysis for Oologah/Big Hill WRAPS." Kansas Department of Health and Environment. Funds received: \$8,007. January 2008 – December 2009.

Smith, C.M. and J.C. Leatherman. "Economic Analysis for Toronto Lake WRAPS." Kansas Department of Health and Environment. Funds received: \$8,007. January 2008 – December 2009.

Smith, C.M. and J.C. Leatherman. "Upper Arkansas WRAPS BMP Auction – Implementation Funds." Kansas Department of Health and Environment. Funds received: \$20,000. January 2008 – December 2009.

Smith, C.M. and A.P. Nejadhashemi. "Tuttle Creek WRAPS BMP Auction – Implementation Funds." Kansas Department of Health and Environment. Funds received: \$20,000. January 2008 – December 2009.

Smith, C.M. and J.C. Leatherman. "Toronto WRAPS BMP Auction – Implementation Funds." Kansas Department of Health and Environment. Funds received: \$15,000. January 2008 – December 2009.

Leatherman, J.C., C.M. Smith, and A.P. Nejadhashemi. "Lower Marais des Cygnes BMP Auction." Kansas Department of Health and Environment. Funds received: \$80,000. Grant match: \$26,690. January 2008 – June 2010.

Davis, S., C.M. Smith, B. Johnson, T. Schardein, and J. Cole. "Kansas Environmental Leadership Program Applied Leadership Project Mini-Grant." Kansas Department of Health and Environment. Funds received: \$1,200. Grant match: \$700. May 2007 – September 2007.

Smith, C.M., B. Maltzberger, and R. Simpson. "Davies County Water Festival." Missouri Department of Natural Resources. Funds received: \$3,372. Grant match: \$2,339. November 2005 – September 2006.

Publications:

Articles in Peer-Reviewed Journals (Forthcoming or Published):

Smith, C.M., J.R. Williams, A.P. Nejadhashemi, S.A. Woznicki, and J.C. Leatherman. "An Economic Analysis of Cropland Management Strategies for Reducing Sedimentation of a Reservoir." *Journal of Agricultural and Applied Economics*. Forthcoming.

Peterson, J.M., C.M. Smith, J.C. Leatherman, N.P. Hendricks, J.A. Fox. "Transaction costs in payment-for-environmental-service contracts." *American Journal of Agricultural Economics*. Forthcoming.

Smith, C.M., J.R. Williams, A.P. Nejadhashemi, S.A. Woznicki, and J.C. Leatherman. "Cropland management versus dredging: An economic analysis of reservoir sediment management." *Lake and Reservoir Management*. 2013. 29: 151-164.

Smith, C.M., K.C. Dhuyvetter, T.L. Kastens, D.L. Kastens, and L.M. Smith. "Economics of Precision Agricultural Technologies Across the Great Plains." *Journal of American Society of Farm Managers and Rural Appraisers*. 2013. 76(1): 185-206.

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." *Journal of Regional Analysis and Policy (Special Issue on Market-based Environmental Management)*. 2012. 42(2): 151-161.

Smith, C.M., J.M. Peterson, J.C. Leatherman, J.R. Williams. "Simulation of factors impeding water quality trading market performance." *Journal of Regional Analysis and Policy (Special Issue on Market-based Environmental Management)*. 2012. 42(2): 162-176.

Williams, J.R., C.M. Smith, J.D. Roe, J.C. Leatherman, R.M. Wilson. "Engaging Watershed Stakeholders for Cost-Effective Environmental Management Planning with *Watershed Manager*." *Journal of Natural Resources and Life Sciences Education*. 2012. 41(1): 44-53.

Woznicki, S.A., A.P. Nejadhashemi, and C.M. Smith. "Assessing Best Management Practice Implementation Strategies under Climate Change Scenarios." *Transactions of the American Society of Agricultural and Biological Engineers*. January/February 2011. 54(1): 171-190.

Smith, C.M., A.P. Nejadhashemi, and J.C. Leatherman. "Using a BMP Auction as a Tool for the Implementation of Conservation Practices." *Journal of Extension*. August 2009. 47(4): 1-10.

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*. September/October 2007. 62(5): 97A-103A.

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, 2012.

Williams, J.R. and C.M. Smith. "Economic Issues of Watershed Protection and Rehabilitation." In Hargrove, W.L., Editor. Sedimentation in Our Reservoirs: Causes and Solutions. Kansas State University Agricultural Experiment Station and Cooperative Extension Service, Manhattan, KS. 2008. http://www.oznet.ksu.edu/library/h20ql2/KWRI_Book.pdf

Extension Publications:

Nejadhashemi, A.P., C.M. Smith, and W.L. Hargrove. "Adaptive Watershed Modeling and Economic Analysis for Agricultural Watersheds (An Approach to Integrate Local Stakeholder Knowledge with the Best Science)." Kansas State Research and Extension Publication # MF2847. June 2009.

Nejadhashemi, A.P., S.A. Perkins, C.M. Smith, K.R. Mankin, R.M. Wilson, S.P. Brown, and J.C. Leatherman. "Upper and Middle Neosho Watersheds Assessment Preliminary Report." Kansas State Research and Extension Publication #EP-135. February 2009.

Nejadhashemi, A.P., R.K. Gali, C.M. Smith, K.R. Mankin, R.M. Wilson, S.P. Brown, and J.C. Leatherman. "Oologah Watershed Assessment Preliminary Report." Kansas State Research and Extension Publication #EP-136. February 2009.

Nejadhashemi, A.P., R.K. Gali, C.M. Smith, K.R. Mankin, R.M. Wilson, S.P. Brown, and J.C. Leatherman. "Upper and Lower Cottonwood and Neosho Headwaters Watersheds Assessment Preliminary Report." Kansas State Research and Extension Publication #EP-137. February 2009.

Nejadhashemi, A.P., R.K. Gali, C.M. Smith, K.R. Mankin, R.M. Wilson, S.P. Brown, and J.C. Leatherman. "Marmaton Watershed Assessment Preliminary Report." Kansas State Research and Extension Publication #EP-138. February 2009.

Nejadhashemi, A.P., C.M. Smith, K.R. Mankin, R.M. Wilson, S.P. Brown, and J.C. Leatherman. "Toronto Lake Watershed Assessment Preliminary Report." Kansas State Research and Extension Publication #EP-139. February 2009.

Nejadhashemi, A.P., C.M. Smith, K.R. Mankin, R.M. Wilson, S.P. Brown, and J.C. Leatherman. "Lower Big Blue Watershed Assessment Preliminary Report." Kansas State Research and Extension Publication #EP-140. February 2009.

Nejadhashemi, A.P., C.M. Smith, K.R. Mankin, R.M. Wilson, S.P. Brown, and J.C. Leatherman. "Lower Little Blue Watershed Assessment Preliminary Report." Kansas State Research and Extension Publication #EP-141. February 2009.

Nejadhashemi, A.P., S.A. Perkins, C.M. Smith, K.R. Mankin, R.M. Wilson, S.P. Brown, and J.C. Leatherman. "Milford Lake Watershed Assessment Preliminary Report." Kansas State Research and Extension Publication #EP-142. February 2009.

Nejadhashemi, A.P., R.K. Gali, C.M. Smith, K.R. Mankin, R.M. Wilson, S.P. Brown, and J.C. Leatherman. "Elk River Watershed Assessment Preliminary Report." Kansas State Research and Extension Publication #EP-143. February 2009.

Nejadhashemi, A.P., R.K. Gali, C.M. Smith, K.R. Mankin, R.M. Wilson, S.P. Brown, and J.C. Leatherman. "Pomona Lake Watershed Assessment Preliminary Report." Kansas State Research and Extension Publication #EP-144. February 2009.

Technical Reports, Conference Papers, Dissertation and Thesis:

Smith, C.M. "An analysis of alternative soil, nutrient, and water management strategies." Unpublished Ph.D. Dissertation, *Department of Agricultural Economics*, Kansas State University, Manhattan Kansas, 2011.

Dhuyvetter, K.C. and C.M. Smith. "Differences Between High-, Medium, and Low-Profit Producers: An Analysis of 2007-2009 Kansas Farm Management Association Crop Enterprises." Kansas State University Agricultural Experiment Station and Cooperative Extension Service, Manhattan, KS. 2010. http://www.agmanager.info/farmmgmt/income/papers/KFMA_ProducerAnalysis_2007-2009.pdf

Leatherman, J.C., C.M. Smith, Peterson, J.M., K.R. Douglas-Mankin, T.L. Marsh, J.A. Fox, M. Lee, and M. Henry. "Feasibility Assessment of Water Pollution Trading in Kansas." Final Technical Report to the KDHE. Topeka, KS. 2010.

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.

Smith, C.M. and J.C. Leatherman. "Economic Contributions of Recreation at Wilson Lake." A report prepared for Russell County Economic Development. February 2009.

Smith, C.M., B.B. Golden, J.C. Leatherman, and T.K. Turner. "Using IMPLAN Analysis-By-Parts to Model the Impacts of Water Use Changes in Kansas." *2008 IMPLAN Users Conference Proceedings*. July 2008.

Smith, C.M., J.C. Leatherman, and S.L. Minson. "Economic Contributions of Recreation at Kanopolis Lake." *Kanopolis Lake Guide - 2008*. February 2008.

Leatherman, J.C. and C.M. Smith. "The Importance of the Health Care Sector to the Kansas Economy." A report prepared for the Kansas Hospital Association. January 2008.

Smith, C.M. and J.C. Leatherman. "Economic Contributions of Recreation at Big Hill Lake." A report prepared for the Big Hill WRAPS Stakeholder Group. January 2008.

Smith, C.M., J.C. Leatherman, and W.R. Boyer. "Economic Contributions of Recreation at Clinton Lake." A report prepared for the Upper Wakarusa WRAPS Stakeholder Group. January 2008.

Smith, C.M. and J.C. Leatherman. "Economic Contributions of Recreation at Elk City Lake." A report prepared for the Elk City Lake WRAPS Stakeholder Group. January 2008.

Smith, C.M. and J.C. Leatherman. "Economic Contributions of Recreation at John Redmond Lake." A report prepared for the Neosho WRAPS Stakeholder Group. January 2008.

Smith, C.M. and J.C. Leatherman. "Economic Contributions of Recreation at Milford Lake." A report prepared for the Milford Lake WRAPS Stakeholder Group. January 2008.

Smith, C.M. and J.C. Leatherman. "Economic Contributions of Recreation at Toronto Lake." A report prepared for the Toronto Lake WRAPS Stakeholder Group. January 2008.

Smith, C.M. and J.C. Leatherman. "Economic Contributions of Recreation at Tuttle Creek Lake." A report prepared for the Tuttle Creek WRAPS Stakeholder Group. January 2008.

Smith, C.M., and C. Blocksome. "Survey reveals producer attitudes towards BMP implementation and water quality protection." *The Grassland Watershed*. October 2007. 10(3).

Williams, J.R. and C.M. Smith. "A Sedimentation White Paper: Economics of Watershed Protection and Reservoir Rehabilitation." White Paper developed for the Kansas Water Resources Institute and presentation at the *2007 Water and Future of Kansas Conference*. May 2007.

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." Selected paper at the *American Agricultural Economics Association Annual Meeting*, Portland, OR, July 2007.

Smith, C.M. "What in the world is a Watershed Economist?" *The Grassland Watershed*. July 2006. 9(2).

Peterson, J.M., C.M. Smith, and L. Valentin. "A Water Quality Trading Simulation for Northeast Kansas." Selected paper at the *American Agricultural Economics Association Annual Meeting*, Providence, Rhode Island, July 2005.

Smith, C.M. "A Water Quality Trading Simulation for Northeast Kansas." Unpublished M.S. Thesis, *Department of Agricultural Economics*, Kansas State University, Manhattan Kansas, 2004.

Presentations:

Invited Conference/Seminar Presentations:

Smith, C.M and K.C. Dhuyvetter. "Economics of Precision Ag: Factors Affecting Cost-Effectiveness." *2014 Precision Ag Summit*, Jamestown, ND, January 20-21, 2014.

Smith, C.M., J.R. Williams, A.P. Nejadhashemi, S.A. Woznicki, and J.C. Leatherman. "Economics of Reservoir Sedimentation." *2013 Kansas Dam Safety Conference*, Overland Park, KS, February 13, 2013.

- Smith, C.M. and L.M. Smith. "Economics of Precision Agricultural Technologies Across the Great Plains." *GeoGather Seminar – Department of Geosciences, Fort Hays State University, Hays, KS, April 20, 2012.*
- Smith, C.M., J.R. Williams, A.P. Nejadhashemi, S.Woznicki, B.B. Golden, and K.R. Douglas-Mankin. "Economics of Nutrient and Sediment Reduction Strategies." *Kansas WRAPS Working Group Seminar, Topeka, KS, January 24, 2012.*
- Smith, C.M., J.R. Williams, A.P. Nejadhashemi, S.Woznicki, B.B. Golden, and K.R. Douglas-Mankin. "Economics of Nutrient and Sediment Reduction in Tuttle Creek Lake." *2011 Water and the Future of Kansas Conference, Topeka, KS, September 30, 2011.*
- Smith, C.M. and J.R. Williams. "An Analysis of Alternative Soil, Nutrient, and Water Management Strategies." *USDA-Economic Research Service Seminar, Washington D.C., March 17, 2011.*
- Smith, C.M., J.M. Peterson, and J.C. Leatherman. "A Simulation of Factors Impeding Water Quality Trading." *Kansas State University Department of Agricultural Economics, Manhattan, KS, November 18, 2010.*
- Smith, C.M., J.M. Peterson, and J.C. Leatherman. "Simulation of Factors Impeding Water Quality Trading Market Performance." Selected paper for *57th Annual North American Meetings of the Regional Science Association International, Denver, CO, November 10-13, 2010.*
- Smith, C.M., J.M. Crespi, J.C. Leatherman, J.M. Peterson, and J.D. Roe. "An Understanding of the Cost-Effectiveness of Best Management Practice Auctions." Selected paper for *57th Annual North American Meetings of the Regional Science Association International, Denver, CO, November 10-13, 2010.*
- Smith, C.M. "A Simulation of Factors Impeding Water Quality Trading." *Colorado State University Department of Agricultural and Resource Economics Seminar Series, Fort Collins, CO, October 13, 2010.*
- Leatherman, J.C., C.M. Smith, J.M. Peterson, K.R. Douglas-Mankin, and M.C. Lee. "Evaluating the Feasibility of Water Quality Trading in Kansas." *Kansas Department of Health and Environment Watershed Management Section Seminar, Topeka, KS, September 28, 2010.*
- Dhuyvetter, K.C., T.L. Kastens, and C.M. Smith. "Machinery Costs - The impact of field size, shape, and distance." *Kansas State University Department of Agricultural Economics Risk and Profit Conference, Manhattan, KS, August 19-20, 2010.*
- Smith, C.M., J.M. Peterson, and J.C. Leatherman. "Simulation of Factors Impeding Water Quality Trading Market Performance." Selected paper for *2010 AAEA, CAES, and WAEA Joint Annual Meeting, Denver, CO, July 25-27, 2010.*
- Garay, P.V., J.M. Peterson, and C.M. Smith. "Disaggregated Spatial Modeling of Irrigated Land and Water Use." Selected paper for *2010 AAEA, CAES, and WAEA Joint Annual Meeting, Denver, CO, July 25-27, 2010.*

- Williams, J.R., C.M. Smith, and J.D. Roe. "Economics of Streambank Stabilization." *From Dust Bowl to Mud Bowl: Sedimentation, Conservation Measures and the Future of Reservoirs*, Kansas City, MO, September 14-16, 2009.
- Smith, C.M., J.M. Crespi, J.C. Leatherman, J.M. Peterson, and J.D. Roe. "Best Management Practice Auctions: Innovative and Market-Based but are they Cost-Effective?" 2009 WAEA Annual Meetings, Kauai, HI, June 24-26, 2009.
- Smith, C.M. "Developing a BMP Implementation Plan Using K-State Watershed Manager." Presented at:
- *Kansas Department of Health and Environment and Kansas Water Office Joint Seminar*, Topeka, KS, August 8, 2008.
 - *WRAPS Work Group Seminar*, Manhattan, KS, July 11, 2008.
- Smith, C.M., B.B. Golden, J.C. Leatherman, and T.K. Turner. "Using IMPLAN Analysis-By-Parts to Model the Impacts of Water Use Changes in Kansas." *2008 MCRSA/IMPLAN Conference*, Colorado Springs, CO, June 6, 2008.
- Smith, C.M., H. George, and A.P. Nejadhashemi. "Cost-Effective Conservation: Using a BMP Auction for Targeting in Kansas." *2008 Kansas WRAPS Conference*, Salina, KS, April 15, 2008.
- Smith, C.M. and J.C. Leatherman. "Economic Value of Recreation at Kansas Reservoirs." *WRAPS Brownbag Seminar*, Manhattan, KS, April 4, 2008.
- Smith, C.M. and J.C. Leatherman. "BMP Auctions as a Tool for Targeting Implementation of Conservation Practices." *2008 Water and the Future of Kansas Conference*, Topeka, KS, March 25, 2008.
- Smith, C.M. and J.R. Williams. "Economics of Watershed Protection and Reservoir Rehabilitation." *Sedimentation in our Reservoirs: Causes and Solutions. A Research Strategy Workshop*, Topeka, KS, March 6, 2008.
- George, H. and C.M. Smith. "Cost-effective Conservation: Using a BMP Auction for Targeting in Kansas." *USDA-CSREES National Water Conference*. Sparks, NV. February 3-7, 2008.
- Smith, C.M. and A.P. Nejadhashemi. "An Integrated Economic-Watershed Modeling Framework for Watershed Assessment." *Kansas Department of Health and Environment and K-State WRAPS Team Meeting*, Topeka, KS, January 18, 2008.
- Smith, C.M. "Cost-effective Conservation: Using a BMP Auction for Targeting in Kansas." *Kansas Association of Conservation Districts Annual Meeting*, Wichita, KS, November 19, 2007.
- Leatherman, J.C., J.M. Peterson, C.M. Smith, K.R. Mankin, and Ming-Chieh Lee. "Evaluating the Feasibility of WQT in Kansas: K-State Outreach and Research Initiative." *An Introduction to WQT EPA Training Course*, Kansas City, KS, October 23, 2007.
- Smith, C.M. "Getting the Most Impact for Least Cost: BMP Auctions." Presented at:
- *WRAPS Brownbag Seminar*, Manhattan, KS, September 14, 2007.
 - *Environmental Engineering Seminar*, Manhattan, KS, August 31, 2007.

Smith, C.M., J.M. Peterson, J.C. Leatherman, and J.A. Fox. "Results and Analysis from Last Year's Water Quality Trading Experiment." *Kansas State University Department of Agricultural Economics Risk and Profit Conference*, Manhattan, Kansas, August 2007.

Smith, C.M., J.C. Leatherman, and J.R. Williams. "Sedimentation and its Effects on the Recreation Economy: A Case Study." *2007 Water and the Future of Kansas Conference*, Topeka, KS, March 15, 2007.

Williams, J.R. and C.M. Smith. "A Sedimentation White Paper: Economics of Watershed Protection and Reservoir Rehabilitation." *2007 Water and the Future of Kansas Conference*, Topeka, KS, March 15, 2007.

Smith, C.M., J.C. Leatherman, and J.R. Williams. "Dollars and Sense: Integrating Economics into WRAPS Projects." *2007 Kansas WRAPS Conference*. Wichita, KS, January 17, 2007.

Shannon, B. and C.M. Smith. "Watersheds on Wall Street? The Basics of Water Pollutant Trading." *Soil and Water Conservation Society's "It's the Water Workshop,"* Hannibal, Missouri, September 2005.

Leatherman, J.C., C.M. Smith, and J.M. Peterson. "An Introduction to Water Quality Trading." *Kansas State University Department of Agricultural Economics Risk and Profit Conference*, Manhattan, Kansas, August 2004.

Significant Extension Presentations:

Smith, C.M and K.C. Dhuyvetter. "Precision Ag: Costs, Benefits, and Other." *Minimum Till / No Till Update*, Ashland, KS, May 14, 2014.

Smith, C.M. "Costs and Returns from Precision Equipment." *K-State Research and Extension - Ottawa Field Day*, Ottawa, KS, August 15, 2012.

Smith, C.M., K.C. Dhuyvetter, T.L. Kastens, and D.L. Kastens. "Introduction to the Guidance & Section Control Profit Calculator." *2011 Commodity Classic*, Tampa, FL, March 3-5, 2011.

Dhuyvetter, K.C. and C.M. Smith. "Guidance & Section Control Profit Calculator (and some other machinery cost related stuff)." *Ag Technology Field Day*, Great Bend, KS, August, 2010.

Smith, C.M., K.C. Dhuyvetter, T.L. Kastens, and D.L. Kastens. "Introduction to the Guidance & Section Control Profit Calculator." *2010 Commodity Classic*, Anaheim, CA, March 4-6, 2010.

Roe, J.D. and C.M. Smith. "Using a BMP Auction for Targeting in Kansas." *EPA Nutrient Management Webinar*, September 1, 2009.

Roe, J.D. and C.M. Smith. "Using Cropland and Livestock BMP Auctions for Targeting in Kansas." *Heartland Region Workshop*, Nebraska City, NE, June 9, 2009.

Roe, J.D. and C.M. Smith. "Using a BMP Auction for Targeting in Kansas." *Heartland Region Roundtable*, Nebraska City, NE, March 4, 2009.

Roe, J.D., C.M. Smith, and J.C. Leatherman. "BMP Auctions, a Market-Based Approach to Improving Water Quality." *EPA Farm, Ranch, and Rural Communities Federal Advisory Committee (FRRCC) Tour*, Manhattan, KS, September 9, 2008.

Smith, C.M. "Developing a BMP Implementation Plan – Part 1." *Tuttle Creek Lake WRAPS Stakeholder Leadership Team Meeting*, Waterville, KS, July 10, 2008.

Smith, C.M. "Contributions of Economic Analyses and Watershed Modeling." Presented at:

- *Milford Lake WRAPS Stakeholder Leadership Team Meeting*, Clay Center, KS, July 9, 2008.
- *Toronto Lake WRAPS Stakeholder Leadership Team Meeting*, Hamilton, KS, February 14, 2008.
- *Neosho Headwaters WRAPS Stakeholder Leadership Team Meeting*, Emporia, KS, January 17, 2008.

Smith, C.M. "Using a BMP Auction in Your Watershed." *Eagle Creek WRAPS Stakeholder Leadership Team Meeting*, Olpe, KS, April 29, 2008.

Smith, C.M., J.C. Leatherman, and W.R. Boyer. "Economic Value of Recreation at Clinton Lake." *Upper Wakarusa WRAPS Stakeholder Leadership Team Meeting*, Topeka, KS, March 26, 2008.

Smith, C.M. and J.C. Leatherman. "Economic Value of Recreation at Toronto Lake." *Toronto Lake WRAPS Stakeholder Leadership Team Meeting*, Hamilton, KS, February 14, 2008.

Smith, C.M. "Water Quality Trading Experiment with Kansas Wastewater Treatment Plants." *Conducted one-on-one presentations, surveys, and experiments with wastewater treatment plant operators and public works directors across the state of Kansas in the following cities from October 22, 2007 – February 22, 2008*: Emporia, Ottawa, Garden City, Great Bend, South Hutchinson, Hutchinson, McPherson, Newton, Wellington, Winfield, Arkansas City, El Dorado, Wichita, Haysville, Derby, Andover, Augusta, Pittsburg, Chanute, Iola, Fort Scott, Coffeyville, Independence, Parsons, Hays, Colby, Park City, Abilene, Concordia, Junction City, Salina.

Smith, C.M. "Attitudes of Great Plains producers about best management practices, conservation programs, and water quality." *Northwest Certified Crop Advisers Workshop*. St. Joseph, MO, January 22, 2008.

Smith, C.M. "Economics of Water Use in Kansas - 2008." *Northwest Certified Crop Advisers Workshop*. St. Joseph, MO, January 22, 2008.

Smith, C.M. "Contributions of Watershed Economic Analyses." Presented at:

- *Middle Neosho WRAPS Stakeholder Leadership Team meeting*. Parsons, KS, November 14, 2007.
- *Upper Neosho WRAPS Stakeholder Leadership Team meeting*. Iola, KS, November 14, 2007.

Smith, C.M. and J.C. Leatherman. "The Economic Impact of Meadowlark Hills on the Manhattan/Riley County Economy." *Manhattan City Commission Meeting*, Manhattan, KS, November 6, 2007.

Smith, C.M. and A.P. Nejadhashemi. "Watershed Economics and Modeling Working Together." *Tuttle Creek Lake WRAPS Stakeholder Leadership Team Meeting*, Waterville, KS, September 13, 2007.

Smith, C.M., J.C. Leatherman, and J.R. Williams. "Economic Value of Recreation at Tuttle Creek Lake." *Tuttle Creek Lake WRAPS Stakeholder Leadership Team Meeting*, Waterville, KS, March 27, 2007.

Smith, C.M. "Pomona BMP Auction: An Introduction." *Pomona Lake WRAPS Landowner Meeting*. Burlingame, KS, March 8, 2007.

Smith, C.M., J.C. Leatherman, Williams, J.R., and J.M. Peterson. "Economics of Water Use in Kansas - 2007." *Marion County Ag Information Meeting*. Marion, KS, February 28, 2007.

Smith, C.M. and J.C. Leatherman. "BMP Auctions: Cost-effective Watershed Management." Presented at:

- *Pomona Lake Watershed Restoration and Protection Strategies Stakeholder Leadership Team Meeting*. Lyndon, KS, January 24, 2007.
- *Heartland Targeting Critical Source Areas for BMP Implementation Roundtable*. Nebraska City, NE, January 9, 2007.

Smith, C.M., J.M. Peterson, and J.C. Leatherman. "A Water Quality Trading Experiment." Presented at:

- *Kansas Farm Bureau Young Farmers and Ranchers Leaders Conference*. Wichita, Kansas, January 26, 2007 (42 participants).
- *Post Rock Ag Profitability Conference*. Smith Center, Kansas, January 12, 2007 (44 participants).
- *Sunflower Ag Profitability Conference*. Colby, Kansas, December 7, 2006 (11 participants).
- *Kansas State University Department of Agricultural Economics Risk and Profit Conference*. Manhattan, Kansas, August 17, 2006 (39 participants).

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." *EPA NCER/NCEE Market Mechanisms and Incentives Progress Review*, Resources for the Future. Washington D.C., October 2006.

Smith, C.M., J.M. Peterson, J.C. Leatherman, K.R. Mankin, and K. Boone. "Assessing the Feasibility of a Nonpoint Source Water Quality Trading Program for Kansas." Progress report presented to the *Kansas Fertilizer Fund Committee*, Manhattan, Kansas, August 2006.

Smith, C.M. "An Introduction to Water Quality Trading." *Soil and Water Conservation Society – Northwest Missouri Regional Meeting*. Cameron, Missouri, September 2005.

Posters:

Smith, C.M., J.R. Williams, A.P. Nejadhashemi, S.A. Woznicki, and J.C. Leatherman. "An Economic Analysis of Cropland Management Strategies for Reducing Sedimentation versus Dredging of a Reservoir." *2013 Southern Agricultural Economics Association Annual Meetings*, Orlando, FL, February 4-7, 2013.

Smith, L.M. and C.M. Smith. "Economics of Precision Agricultural Technologies Across the Great Plains." *Research and Creative Activities Forum*, Fort Hays State University, Hays, KS, May 2-3, 2012.

- Chosen as the Top Poster for the Kansas Academy of Math and Sciences division

Smith, C.M., J.R. Williams, A.P. Nejadhashemi, S. Woznicki, B.B. Golden, and K.R. Douglas-Mankin. "From the Dust Bowl to the Mud Bowl: Economics of Reservoir Sedimentation." Poster presented at:

- 2011 *Water and the Future of Kansas Conference*, Topeka, KS, September 30, 2011.
- 2011 *Universities Council on Water Resources Annual Conference*, Boulder, CO, July 11-14, 2011.

Smith, C.M., J.R. Williams, J.D. Roe, and J.C. Leatherman. "Using *Watershed Manager* to Cost-Effectively Target Cropland Best Management Practices." Poster presented at:

- *KansasBio Quarterly Board of Directors Meeting*, Wichita, KS, May 27, 2010.
- Selected to present on behalf of K-State at the 7th *Annual Capitol Graduate Research Summit* (top 10 posters from a total of 75 were chosen), Topeka, KS, March 25, 2010.
- *K-State Research Forum*, Manhattan, KS, February 11, 2010.
- *K-State Research and Extension Conference*, Manhattan, KS, October 20-22, 2009.
- *From Dust Bowl to Mud Bowl: Sedimentation, Conservation Measures and the Future of Reservoirs*, Kansas City, Missouri, September 14-16, 2009.

Nejadhashemi, A.P., K.R. Mankin, C.M. Smith, R.M. Wilson, S.P. Brown, R. Christianson, W.L. Hargrove, J.C. Leatherman, D.L. Devlin, and S.L. Hutchinson. "Adaptive Modeling for Watershed Restoration. *American Ecological Engineering Society Annual Conference: Ecological Engineering in the Great Plains Ecosystem*, Manhattan, Kansas, May 23-25, 2007.

Smith, C.M., J.C. Leatherman, and J.R. Williams. "Economic Impacts and Benefits of Recreation at Tuttle Creek Lake." Poster presented at:

- *Tuttle Creek Lake WRAPS Stakeholder Leadership Team Meeting*, Waterville, KS, March 27, 2007.
- 2007 *Water and the Future of Kansas Conference*, Topeka, Kansas, March 15, 2007.

Smith, C.M. and J.M. Peterson. "A Water Quality Trading Simulation for Northeast Kansas." Poster presented at the 2005 *Water and the Future of Kansas Conference*, Topeka, Kansas, March 2005.

Organized Symposia / Forum Participation / Moderator:

Moderator for "Crop Insurance" session at 2010 *AAEA, CAES, and WAEA Joint Annual Meeting*, Denver, CO, July 25-27, 2010.

DeVuyst, E., C. DeVuyst, and B. Norwood. "Great Teaching: Students' Perspective." 2009 *WAEA Annual Meetings*, Kauai, HI, June 24-26, 2009. (I was one of five students on the panel).

Decision-Making Tool Development:

Dhuyvetter, K.C., D. Blasi, and C.M. Smith. "**SUPPCOST**" – A computer spreadsheet program to evaluate the total costs of various protein supplement programs for cow/calf and stocker producers.

Available at:

<http://agmanager.info/livestock/budgets/production/default.asp>

Dhuyvetter, K.C., C.M. Smith, T.L. Kastens, and D.L. Kastens. "**Guidance and Section Control Profit Calculator**" – A program which examines the economics of guidance and boom/machine section control technologies. Available at:

<http://www.agmanager.info/farmmgt/machinery/default.asp>

Smith, C.M., J.R. Williams, and J.C. Leatherman. “**K-State Watershed Manager**” – A spreadsheet program to estimate and optimize the economic and environmental effects of watershed management scenarios.

Smith, C.M. and J.R. Williams. “**KSU-HomeWastewaterTreatment.xls**” – A spreadsheet program to estimate the costs of wastewater treatment systems for homeowners. Available at:
<http://www.agmanager.info/policy/water/KSU-HomeWastewaterTreatment.xls>

Smith, C.M. and J.R. Williams. “**KSU-VegetativeBuffer.xls**” – A spreadsheet program to estimate the costs and returns of vegetative buffers. Available at:
<http://www.agmanager.info/policy/water/KSU-VegetativeBuffer.xls>

Smith, C.M. and J.R. Williams. “**KSU-StreambankStabilization.xls**” – A spreadsheet program to estimate the economic benefits and costs of streambank stabilization projects. Available at:
<http://www.agmanager.info/policy/water/KSU-StreambankStabilization.xls>

Smith, C.M., K.C. Dhuyvetter, and J.R. Williams. “**KSU-Tillage.xls**” – A spreadsheet program to estimate the economic benefits and costs of alternative tillage management strategies. Available at:
<http://www.agmanager.info/policy/water/KSU-Tillage.xls>

Conference Organization:

“2008 Kansas Watershed Restoration and Protection Strategies Conference.” Co-coordinator (along with Jaime Gaggero, Amanda Reed, Sondra Megrail, Deb Baker, Paul Ingle, and Stacie Minson) of this two day event targeting those who work with Kansas watershed projects (180 in attendance). Sponsored by Kansas Department of Health and Environment. Salina, Kansas, April 14-15, 2008.

“2007 Kansas Watershed Restoration and Protection Strategies Conference.” Co-coordinator (along with Jaime Gaggero, Deb Baker, Paul Ingle, and Stacie Minson) of this two day event targeting those who work with Kansas watershed projects (215 in attendance). Sponsored by Kansas Department of Health and Environment. Wichita, Kansas, January 17-18, 2007.

Contractual Work:

Guidance and Section Control Profit Calculator development (PrecisionAg Institute – with K.Dhuyvetter and T. Kastens) October 2009.

Cost of Harvest modeling (John Deere – with K. Dhuyvetter and T. Kastens) July 2011.