

JOLEEN C. HADRICH

CONTACT INFORMATION

Dept. Agricultural & Resource Economics
Colorado State University
B-303 Clark Building
Fort Collins, CO 80523-1172

Ph: 970.491.2836
Fax: 970.491.2067
Email: joleen.hadrich@colostate.edu

EDUCATION

Ph.D. Agricultural Economics, Michigan State University, 2009
M.S. Agricultural Economics, Michigan State University, 2007
B.A. Management, University of Minnesota, Morris, 2004
B.A. Spanish, University of Minnesota, Morris, 2004

EMPLOYMENT EXPERIENCE

Associate Professor, Dept. Agricultural & Resource Economics, Colorado State University,
7/2016-Present

Assistant Professor, Dept. Agricultural & Resource Economics, Colorado State University,
8/2012-7/2016

Assistant Professor, Dept. Agribusiness & Applied Economics, North Dakota State University,
8/2009-8/2012, Adjunct Assistant Professor (9/2012-12/2012)

Graduate Research Assistant, Dept. Agricultural, Food, & Resource Economics, Michigan State
University, 5/2004-7/2009

PUBLICATIONS (15)

Journal Articles

15. Hadrich, J.C. and C.A. Wolf. 2017. "Characterizing U.S. Dairy Farm Income and Wealth Distributions" *Agricultural Finance Review*, 77(1): (waiting for page assignment)
14. Hadrich, J.C., and K.K. Johnson. 2015. "Estimation of risk management effects on revenue and purchased feed costs on U.S. dairy farms." *Journal of Dairy Science*, Vol. 98(9):6588-6596.
13. Cease, A., J. Elser, E. Fenichel, J.C. Hadrich, J. Harrison, and B. Robinson. 2015. "Living with Locusts: connecting soil nitrogen, locust outbreaks, livelihoods, and livestock markets" *Bioscience*, 65(6):551-558.
12. Manning, D.T., and J.C. Hadrich. 2015. "An Evaluation of the Social and Private Efficiency of Adoption: Anaerobic Digesters and Greenhouse Gas Mitigation." *Journal of Environmental Management* Vol 154:70-77.
11. Swanepoel, G.D., J.C. Hadrich, and C.G. Goemans. 2015. "Estimating the contribution of groundwater irrigation to farmland values in Phillips County, Colorado." *Journal of ASFMRA* Vol 78:166-179.

10. Hadrich, J.C., and J.J. Jackson. 2014. "Livestock emissions regulations with unknown damages and strategic technology adoption." *Applied Economics* 46(35):4309-4317.
9. Hadrich, J.C. and A. Van Winkle. 2013. Awareness and pro-active adoption of surface water BMPs," *Journal of Environmental Management*, Vol 127(30): 221-227.
8. Hadrich, J.C. 2013. "Quantifying the sources of revenue variation in the Northern Great Plains." *Agricultural Finance Review*. Vol 73 (3): 493-506.
7. Hadrich, J.C., R.A. Larsen, & F.E. Olson. 2013. "Impact of Section 179 tax deduction on machinery investment." *Agricultural Finance Review*. Vol 73(3): 458-468.
6. Hadrich, J.C. 2012. "Managing the Economics of Soil Salinity in the Red River Valley of North Dakota." *Journal of ASFMRA*. Vol 75(1): 80-88.
5. Hadrich, J.C., and F.E Olson. 2011. "Joint Measurement of Farm Size and Farm Performance: A Confirmatory Factor Analysis." *Agricultural Finance Review*. Vol 71(3): 295-309.
4. Hadrich, J.C., and C.A. Wolf. 2011. "Citizen Complaints and Environmental Regulation of Michigan Livestock Operations." *Journal of Animal Science*. 89:277-286.
3. Hadrich, J.C., T.M. Harrigan, and C.A. Wolf. 2010. "Economic Comparison of Liquid Manure Transport and Application." *Applied Engineering in Agriculture*. 26(5):743-758
2. Wolf, C.A., J.R. Black, and J.C. Hadrich. 2009. "Upper Midwest Dairy Farm Revenue Variation and Insurance Implications." *Agricultural Finance Review*, Vol. 69, No. 3: 346-358.
1. Hadrich, J.C., C.A. Wolf, J.R. Black, and S.B. Harsh. 2008. "Incorporating Environmentally Compliant Manure Nutrient Disposal Costs into Least Cost Livestock Ration Formulation." *Journal of Agricultural and Applied Economics*. 40(1):287-300.

Journal Submissions (3)

3. Dejong, T., S. Rao, K. Wongsathapornchai, J. Hadrich, K. Chanachai, S. Weeragidpanit, and M.D. Salman. "Estimation of risk of introduction of African swine fever virus to Thailand pig product from Italy, 2015: Qualitative Assessment." Submitted to *OIE*, October 27, 2016; Revise and Resubmit received Nov. 10, 2016.
2. Markwood, M., R. Peel, J. Ahola, G.Seidl Jr., J.C. Hadrich, R. Funston, S. Lake, and J. Whittier. "Effect of delaying time of artificial insemination based on Estroject patch status on pregnancy rates of nursing beef cows." Submitted to *Journal of Animal Science*, October 27, 2016. Revise and Resubmit received December 5, 2016.

1. McConnel, C.S., A.A. McNeil, J.C. Hadrich, J.E. Lombard, F.B. Garry, and J. Heller. "Dairy Cow disability weights" Submitted to *Preventive Veterinary Medicine*, July 19, 2016. Revise and resubmit received October 2016. Revision submitted Dec. 5, 2016.

Working papers (3)

3. Byrne, A.T. and J.C. Hadrich. "Livestock production in Inner Mongolia's desert steppe: long-term strategies for grassland stewardship, locust management, and economic gain."

2. Hadrich, J.C., Ping Li, B.E. Robinson, and X. Hou. "Livestock grazing profitability potential in Inner Mongolia China across ecosystem types."

1. Byrne, A.T., J.C. Hadrich, B.E. Robinson. H. Guodong. "Modeling the Impact of a Locust Event on Inner Mongolian Sheep and Goat Operations: Farm Budget Analysis and Practical Solutions."

Reports (2)

2. Swanepoel, G.D., and J.C. Hadrich. 2015. "Economic Contribution of the Dairy Industry to the Colorado Economy." Technical Report to the Western Dairy Association. January 2015.

1. Wolf, C.A., J.C. Hadrich, R. Horan, P. Paarlberg, and J. Kaneene. 2008. "Economic Analysis of U.S. Bovine Tuberculosis Eradication Program Options." Report to the US Department of Agriculture Animal and Plant Health Inspection Service. March 2008.

Other Publications (8)

8. Dahlen, C., G. Lardy, and J.C. Hadrich. 2012. "North Dakota Beef Industry Survey: Today, Tomorrow, and Into the Future." Northern States Beef Conference Proceedings, December 2012.

7. Hadrich, J.C. 2012. "A Survey of the awareness and use of BMPs on North Dakota Beef Operations." North Dakota State University Agribusiness & Applied Economics Report No. 698, August 2012.

6. Hadrich, J.C. 2011. "Managing the Economics of Soil Salinity." North Dakota State University Agribusiness & Applied Economics Report: 115-630, August 2011.

5. Hadrich, J.C., and C.A. Wolf. 2009. "Understanding Citizen Complaints Regarding Michigan Agricultural Operations." Michigan State University Department of Agricultural, Food, & Resource Economics Staff Paper: 2009-04, April 2009.

4. Wolf, C.A., J.C. Hadrich, C. Mahnken, and S.B. Harsh. 2007. "The Structure and Competitiveness of Michigan Dairy Farm Industry: Summary and Analysis of the 2005 Michigan State University Survey." Ag Econ Report 633, August 2007.

3. Wolf, C.A., J.C. Hadrich, M.J. Vandehaar. 2006. "Managing Dairy Heifer Growth Investment." Michigan State University Department of Agricultural Economics Staff Paper: 2006-37, Dec. 2006.

2. Hadrich, J.C., C.A. Wolf, and S.B. Harsh. 2006. "Incorporating Environmental Compliance Costs into Livestock Diet Formulation." *Journal of Dairy Science*. 89(Suppl. 1): 291.

1. Wolf, C.A., J.C. Hadrich, and J.R. Black. 2006. "Potential Demand for Dairy Farm Revenue Insurance." *Journal of Dairy Science*. 89(Suppl. 1):398.

PRESENTATIONS (27)

Invited Lectures

Hadrich, J.C. "Livestock grazing and decision making." Invited presentation at the 2014 International Workshop for Grassland Management, Lanzhou University, Lanzhou, China

Department Seminars

Hadrich, J.C. 2015. "U.S. Dairy Farm Wealth and Income Distributions: Management and Policy Implications." Presented November 4, 2015, Dept. of Agricultural and Resource Economics, Colorado State University, Fort Collins, CO.

Conferences (*denotes Hadrich as presenter, ^ϕ denotes graduate student presenter)

Countryman, A.M., A. Bonanno, J.C. Hadrich. 2016. "A COOL Repeal: Potential Outcomes of U.S. Mandatory Country of Origin Labeling Requirements on Dairy and Beef Sectors." Selected paper presented at the 2016 Agricultural and Applied Economics Association annual meetings, Boston, MA.

Holderiath, J.J.^ϕ, D.L. Pendell, J.C. Hadrich. 2016. "Valuing the Absence of Feral Swine for U.S. Corn, Soybean, Wheat, Rice, and Peanut Producers and Consumers: A Partial Equilibrium Approach." Selected paper presented at the 2016 Agricultural and Applied Economics Association annual meetings, Boston, MA.

Holderiath, J.J.^ϕ, and J.C. Hadrich. 2016. "Learning Spatiotemporal Management under Heterogeneous Damage and Uncertain Parameters: An Agent-Based Approach." Selected paper presented at the 2016 Agricultural and Applied Economics Association annual meetings, Boston, MA.

Byrne, A.T.^ϕ and J.C. Hadrich. 2016. "Locusts in Inner Mongolia Grasslands: Implications on Livestock Herd Management." Selected paper presented at Western Agricultural Association Meetings, Victoria, BC, Canada.

Schulz, L.L. and J.C. Hadrich*. 2015. "Assessing the Effects of Managerial and Production Practices on Swine Production Profitability." Agricultural Finance Management (AFM) Symposium: Lending in Volatile Times at the 2015 AAEE & WAEA Joint Annual Meetings, San Francisco, CA.

Hadrich, J.C.*, C.A. Wolf, and K.K. Johnson. 2015. "Characterizing U.S. Dairy Farm Wealth and Income Distributions." Selected paper presented at the 2015 AAEE & WAEA Joint Annual Meetings, San Francisco, CA.

Holland, J.K.^ϕ, J.E. Lombard, J.C. Hadrich, and C.A. Wolf. 2015. “Assessing the farm-level cost of mastitis.” Selected presentation for the 2015 ADSA-ASAS Joint Annual Meeting, Orlando, FL.

Schulz, L.L. and J.C. Hadrich. “Feeding Practices and Input Cost Performance in U.S. Hog Operations: The Case of Split-sex and Phase Feeding.” Selected paper presented at the 2014 Agricultural and Applied Economics Association annual meetings, Minneapolis, MN.

Swanepoel, G.^ϕ and J.C. Hadrich. “Economic Impact of the Dairy Industry to Colorado.” Selected paper presented at 2014 Western Agricultural Economics Association annual meetings, Colorado Springs, CO.

Hadrich, J.C.* “Managing dairy risk in the 2000s.” Selected paper presented at 2013 Western Agricultural Economics Association annual meetings, Monterey, CA.

Hadrich, J.C.* “The Future of the Western Dairy Industry: Environmental Challenges.” Invited Symposium at 2013 Western Agricultural Economics Association annual meetings, Monterey, CA.

Hadrich, J.C.*, R.A. Larsen, and F.E Olson. “Incentives for Machinery Investment.” Selected paper presented at 2012 Agricultural and Applied Economics Association Annual meeting, Seattle, WA.

Larsen, R.A., J.C. Hadrich*, and F.E. Olson. “Relative Price Volatility of Large Market vs. Small Market Crops in North Dakota.” Paper presented at 2012 Western Agricultural Economics Association annual meetings, Park City, UT.

Hadrich, J.C*. “Human Capital and Its Effect on the Farm Business Life Cycle.” Paper presented at 2011 Agricultural and Applied Economics Association Annual meeting, Pittsburgh, PA.

VanWinkle, A.^ϕ, and J.C. Hadrich. “North Dakota Beef Cow Producers: Identifying Current Management Practices and Factors that Influence Adoption Rates of Best Management Practices Relating to Surface Water Pollution.” Paper presented at 2011 Agricultural and Applied Economics Association Annual meeting, Pittsburgh, PA.

Hadrich, J.C.*, and C.A. Wolf. “Implications of the Air Compliance Agreement for Livestock Producers.” Paper presented at 2009 Agricultural and Applied Economics Association Annual meeting, Milwaukee, WI.

Hadrich, J.C.*, C.A. Wolf, F. Lupi. “Factors Affecting Manure Handling System Choices: A Random Utility Approach.” Paper presented at 2008 American Agricultural Economics Association Annual meeting, Orlando, FL.

Hadrich, J.C.* “Incorporating Livestock Nutrient Disposal Costs into Livestock Diet Formulation.” Research presented at 2007 Michigan State University Graduate Student Research Symposium, East Lansing, MI.

Hadrich, J.C.*, C.A. Wolf, and J.R. Black. “Dairy Farm Revenue Insurance: Is the Application Viable?” Paper presented at 2006 American Agricultural Economics Association Annual Meeting, Long Beach, CA.

Hadrich, J.C.*, C.A. Wolf, J.R. Black, and S.B. Harsh. “Incorporating Environmental Compliance Costs into Diet Formulation.” Paper presented at joint 2006 American Dairy Science Association/American Animal Science Association Meeting, Minneapolis, MN.

Hadrich, J.C.*, C.A. Wolf, and S.B. Harsh. “Optimal Livestock Diet Formulation with Farm Environmental Compliance Consequences.” Paper presented at 2005 American Agricultural Economics Association Annual Meeting, Providence, RI.

Poster Presentations

Hadrich, J.C.* and D.T. Manning. “Factors affecting anaerobic digester adoption in the West.” Poster presented at 2014 Agricultural and Applied Economics Association annual meeting, Minneapolis, MN.

Shae, B.A.^φ, and J.C. Hadrich. “Weather risk effects on Cattle Production and Profitability in North Dakota.” Poster presented at 2012 Agricultural and Applied Economics Association Annual meeting, Seattle, WA.

Hadrich, J.C.*, and F.E. Olson. “Confirmatory Factor Analysis of Farm Size and Performance.” Poster presented at 2010 Agricultural and Applied Economics Association Annual meeting, Denver, CO.

Hadrich, J.C.*, and M. Rudstrom. “Economic Feasibility of Alternative Calving Strategies on Small Scale Grazing Dairy Operations.” Poster presented at 2004 American Agricultural Economics Association Annual Meeting, Denver, CO.

MEDIA INTERVIEWS

Salt of the Earth Documentary. Prairie Public, Fargo, ND. Sept. 2011. Available at: <http://www.prairiepublic.org/television/prairie-public-on-demand/salt-of-the-earth/>

USDA Radio News. Interview with Rod Bains—Agricultural Producer and Citizen Interaction during the Spring. May 19, 2010. Available at: <http://audioarchives.oc.usda.gov/radnewsdetail.asp?ID=12537>

TEACHING

Colorado State University

AREC 408, Agricultural Finance (Spring 2013, 2015, 2017)

AREC 428, Agribusiness Management (Spring 2013- 2017)

AREC 487, Internship Experience (2013-2016)

AREC 496, Group Study (2014-2017), Premier Farm Credit Student Board
AREC 508, Financial Management in Agriculture (Fall 2015)
AREC 605, Agricultural Production and Cost Analysis (Spring 2016, 2017)

VM 757, Bovine Herd Medicine (Spring 2014-2017), co-instructor
ANEQ 472, Sheep Systems (Fall 2016), guest lecture on comprehensive business plans
ANEQ 473, Dairy Production Systems (Fall 2014-2016), guest lecture on enterprise budgets

North Dakota State University (Fall 2009-Spring 2012)

AGEC 242, Introduction to Agricultural Management (Fall 2009, 2010, 2011)
AGEC 244, Agricultural Marketing (Spring 2012)
AGEC 420, Integrated Farm and Ranch Management (Spring 2010, 2011, 2012)
AGEC 491, Internship Experience (Summer 2011, Spring 2012)
AGEC 496, Directed Study (Farm Enterprise Analysis, Agribusiness Expansion Analysis,
Machinery Sales)

GRANTS (CSU = \$297,094; NDSU= \$110,281; MSU=\$6,690)

- USDA-APHIS: “Feed and Milk Truck Network Analysis,” 2015-2017. Total Grant:\$65,911. Hadrich: PI; Wolf: Co-PI., APHIS Collaborators: A. Hagerman.
- Cenex Harvest States (CHS): “Colorado Ag Forum Travel for AREC 428,” 2016. Total Grant: \$2,200. Hadrich: PI.
- Environmental and Research Education Foundation: “Advancing Multi-stage Anaerobic Digestion Technologies through Improved Hydrolysis Processes,” 2013-2016. Co-PIs: De Long & Sharvelle, Total Grant: \$118,272; Hadrich: \$5,572.
- USDA-APHIS: “Cost of Mastitis in U.S. Dairy Herds,” 2014-2016. Total Grant: \$31,604. Hadrich: PI, APHIS Collaborators: J. Lombard and K. Johnson.
- Cenex Harvest States (CHS): “Colorado Ag Forum Travel for AREC 428,” 2014. Total Grant: \$2,350. Hadrich: PI.
- Western Dairy Association (WDA): “Economic contribution of the dairy industry to Colorado,” 2013-2014. Total Grant: \$39,030. Hadrich: PI.
- National Science Foundation (NSF): “CNH: Living with locusts: linking livestock markets and grazing practices with the nutritional ecology of grasses and locusts under alternative property rights regimes.” 2013-2018. Total Grant: \$955,000, Hadrich: \$150,427.
- Conservation Innovation Grant (CIG), “Reducing Sodification in High Risk Northern Great Plains Soils,” 2012-2015. Total Grant: \$1,831,570, Hadrich: \$33,697.
- North Dakota Corn Council: “North Dakota Farm Simulation: NDFARMSIM,” 2012. Total Grant: \$31,010. Hadrich: PI, Larsen: Co-PI.
- North Dakota Soybean Council: “North Dakota Beef Industry, Today and Into the Future,” 2012. Total Grant: \$3,500. Hadrich: PI.
- North Dakota Corn Council: “North Dakota Beef Industry, Today and Into the Future,” 2012. Total Grant: \$20,013. Hadrich: PI.
- North Dakota Beef Commission: “North Dakota Beef Industry, Today and Into the Future,” 2012. Total Grant: \$10,000. Hadrich: PI
- Cenex Harvest States (CHS) Foundation, 2012. Funding for AGEC 420 students to attend the Northwest Farm Managers Meeting. Total Grant: \$675.

- USDA-NIFA/NCR-SARE. “Increased sustainability of Livestock Production in the Northern Great Plains, 2011-2014. Total Grant: \$199,734, Hadrich: \$5,400.
- Thomas K. Ostenson Faculty Development Grant, Dept. Agribusiness & Applied Economics, 2011, Total Grant: \$1,000.
- NDSU Advance FORWARD Mentor Relationship Travel Grant, 2010-2011, Total Grant: \$1,486.
- Livestock Waste Educational Information and Assistance Program/EPA-319 Non-point Implementation. Sponsor Agency: ND Department of Health. Awarded to NDSU Carrington Research Station. Hadrich: \$3,500
- Young Professionals Travel Grant, AAEA Foundation, 2010. Total Grant: \$290.
- Michigan State University Graduate School, Dissertation Completion Fellowship, 2009. Total Grant: \$6,000.
- Graduate Student Travel Grant, AAEA Foundation, 2008. Total Grant: \$400.

AWARDS AND HONORS

- Charles N Shepardson Outstanding Research Award, 2015

PROFESSIONAL SERVICE ACTIVITIES

Colorado State University (2012-Present)

- Undergraduate Program Committee, 2015- present
- Premier Farm Credit Faculty Advisor, 2014-present
- Production Economics and/or Commodity Marketing Assistant/Associate Search Committee Chair, 2016
- Department Head Search Committee, 2016
- CSU Deputy Director for AES Search Committee, 2016
- Ag Finance Assistant/Associate Professor Search Committee, 2014-2015
- Genetics Animal Science Search Committee, 2014
- Graduate Program Committee, 2012-2014
- Academic Advisor Search Committee, 2012

- CSU Graduate Student Advisory Committees

Ph.D Agricultural and Resource Economics

Jason Holderieth (Co-Chair) Expected Grad: Spring 2017

Jada Thompson (Committee member), Grad: Summer 2016

M.S Agricultural and Resource Economics

Daniella Guzman (Chair), Expected Grad: Fall 2017

Shannon Fahey (Chair), Expected Grad: Fall 2017

Janie Weiss (co-Chair), Expected Grad: Fall 2017

Lynn Dodge (Committee Member), Expected Grad: Fall 2017

Danielle Ufer (Committee Member), Expected Grad: Summer 2017

Anne Byrne (Chair), Grad: Summer 2016

Graham Swanepoel (Chair), Grad: Spring 2014

Madi McGuire (Committee Member), Grad: Fall 2012

Ph.D Animal Science

Travis Hoffmann (Committee Member), Grad: Fall 2015

M.S. Animal Science

Kayla Calvin (Committee Member), Expected Grad: Spring 2018

Matthew Markwood (Committee Member), Grad: Summer 2015

Miranda (Sis) Perry (Committee Member), Grad: Spring 2013

M.S. Clinical Sciences

Tosapol Dehyong (Committee Member), Grad: Fall 2016

Ashleigh McNeil (Co-Chair/Co-Advisor), Grad: Summer 2016

National Level

- NC-1177, Secretary, Chair, Chair Elect (3 year term) 2014-Present
- AFM Section, AAEA, Leadership: Chair-elect (2015), Chair (2016) Past-Chair (2017)
- AEM Section leader for AAEA Abstracts, 2013-2015
- WAEA Council Member, 2012-2016

North Dakota State University (2009-2012)

- Co-Advisor, NDSU Agribusiness Club, 2011-2012.
- Department Chair Search Committee, Dept. Agribusiness & Applied Economics, North Dakota State University, 2010-2011.
- Undergraduate Policy Committee, Dept. Agribusiness & Applied Economics, North Dakota State University, 2009-2012. (Secretary: 2009-2010, Chair: 2010-2011)
- American Agricultural and Applied Economics Association Selected Paper Reviewer (2009, 2010, 2011).
- Western Agricultural and Applied Economics Association Selected Paper Reviewer (2011, 2012).
- Undergraduate advisor for 20 students at NDSU.
- NDSU Graduate Student Advisory Committees

M.S Agribusiness & Applied Economics

BillieJo Shae (Major Advisor & Committee Chair), Exp. Grad.: Fall 2012

Andrea VanWinkle (Major Advisor & Committee Chair), Grad.: Fall 2011

M.S. Animal Science

Richelle Miller (Committee Member), Grad: Summer 2012

Steve Eckerman (Committee Member), Grad: Spring 2011

Ph.D Animal Science

Megan VanEmon (Committee Member), Exp. Grad: Fall 2012.

JOURNAL ARTICLE REVIEWS

Agricultural Finance Review, Energy Policy, Journal of Agricultural and Applied Economics, Journal of Agricultural and Resource Economics, Journal of Agricultural & Food Industrial Organization, Canadian Journal of Agricultural Economics, Energy Policy, Journal of Animal

Science, Journal of Dairy Science, CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources, Preventive Veterinary Medicine

PROFESSIONAL SOCIETY MEMBERSHIPS

American Agricultural Economics Association, 2004-Present

Western Agricultural Economics Association, 2012-Present