

CHRISTOPHER A. WOLF

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PROFESSIONAL EXPERIENCE

Cornell University, Charles H. Dyson School of Applied Economics and Management
E.V. Baker Professor of Agricultural Economics July 2020-Present
Director of Land Grant Programs July 2020-Present
Professor July 2019-present

Michigan State University, Department of Agricultural, Food, and Resource Economics
Co-Director, Telfarm Financial Management Center, April 2017-June 2019
Professor, July 2009-June 2019
Associate Professor, July 2003-June 2009
Assistant Professor, October 1997-June 2003

EDUCATION

University of California-Davis
Ph.D., Agricultural and Resource Economics. 1997

University of Wisconsin-Madison
B.S. with Honors, Agricultural Economics. 1991

PROFESSIONAL AFFILIATIONS

Agricultural and Applied Economics Association
Dairy Markets and Policy Extension Education Committee
American Dairy Science Association
Northeastern Agricultural and Resource Economics Association

DISTINCTIONS AND AWARDS

MSU David B. Schweikhardt Service Award, 2018
Agricultural and Applied Economics Association, Distinguished Extension Program–
Group, 2015
Michigan State University Extension, Institute Team Award, 2015
MSU Dept of Ag., Food and Res. Econ., Excellence in Research Award, 2013
Honorary State Degree, Michigan FFA, 2010
Domain Leader, Farm Business Management Section, DAIReXNET, 2007-2009
MSU Dept of Ag., Food and Res. Econ., Excellence in Outreach Award, 2008
Honorable Mention, American Journal of Agricultural Economics, Outstanding Journal
Article, 2005
American Agricultural Economics Association, Distinguished Extension Program–
Group, 2000

INSTRUCTION

Cornell University

AEM 2050 Agricultural and Agribusiness Finance: Spring Semesters 2020-present.
AEM 3040 Dairy Markets and Policy: Spring Semesters 2020-present.

Michigan State University

ABM 430 Advanced Farm Business Management: Fall Semesters 2005-2018.
AEC 851 Agribusiness Operations Management: Spring Semesters 2003-2019.
ABM 130 Introductory Farm Business Management: Fall Semesters 2000-2004.

PUBLICATIONS

Journal Articles

99. Ufer, D., D. Ortega and C. Wolf. "The Economics of Information and Redundant Labels in the Milk Industry." *Applied Economics Perspectives and Policy*. Accepted. Nov. 2020.
98. Bir, C., C. Wolf, and N. Widmar. "Dog and Cat Owner Demand for Veterinary Service Payment Plans." *Journal of Agricultural and Resource Economics*. Accepted June 2020.
97. Wolf, C., A. Novakovic and M. Stephenson. "COVID-19 and the US Dairy Supply Chain." *Choices*. January 2021.
96. Wolf, C., T. Malone, and B. McFadden. "US Beverage Milk Consumption: Who is Substituting for Plant-Based Beverages?" *Journal of Dairy Science* 103(December 2020):11209-11217.
95. Wolf, C., J. Black and M. Stephenson. "Benchmarking Upper Midwest Dairy Farm Profitability." *Agricultural Finance Review* 80:(Issue 5, 2020):733-744.
94. Widmar, N., C. Bir, C. Wolf, J. Lai, and Y. Liu. "#Eggs: Social media derived perceptions of egg laying hen housing." *Poultry Science* 99(November 2020):5697-5706.
93. Bir, C., N. Widmar, N. Slipchenko, C. Wolf, C. Hansen, F. Ouedraogo. "Online Procurement of Pet Supplies and Willingness to Pay for Veterinary Telemedicine." *Preventive Veterinary Medicine* 181(August 2020):105073.
92. Widmar, N., C. Bir, J. Lai and C. Wolf. "Public Perceptions of Veterinarians from Social and Online Media Listening." *Veterinary Sciences* 7(July 2020):75.
91. Bir, C., N. Widmar, N. Thompson, J. Townsend, and C. Wolf. "US respondents' willingness-to-pay for pasture access, antibiotic use, and dehorning practices for dairy cattle in cheddar cheese." *Journal of Dairy Science* 103(April 2020):3234-3249.

90. Bir, C., M. Ortez, N. Widmar, C. Wolf, C. Hansen, and F. Ouedraogo. "Familiarity and Use of Veterinary Services by US Resident Dog and Cat Owners." *Animals* 10(March 2020):483.
89. Ortez, M., C. Bir, N. Widmar, and C. Wolf. "Perceptions of Prominent Animal Welfare and Veterinary Care Organizations in the United States." *Animals* 10(March 2020):472.
88. Hogeveen, H., W. Steenveld and C. Wolf. "Production diseases reduce the efficiency of dairy production: A review of methods and approaches used to estimate the economics of mastitis." *Annual Review of Resource Economics* 11(October 2019):289-312.
87. Ufer, D., D. Ortega and C. Wolf. "Economic Foundations for the Use of Biotechnology to Improve Farm Animal Welfare." *Trends in Food Science and Technology* 91(September 2019):129-138.
86. Ochs, D., C. Wolf, N. Widmar, C. Bir, and J. Lai. "Information Effects on U.S. Consumer Demand for Egg Production Attributes." *Food Policy* 87(August 2019):101743.
85. Tonsor, G. and C. Wolf. "US Farm Animal Welfare: An Economic Perspective." *Animals* 9(June 2019):367.
84. Ochs, D., C. Wolf, N. Widmar, and C. Bir. "Is there a "cage-free" lunch in US Egg Production? Public views of laying hen housing attributes." *Journal of Agricultural and Resource Economics* 44(May 2019):345-361.
83. Widmar, N., C. Wolf, C. Morgan, S. Downey, and C. Croney. "Who's Responsible Here? US Consumer Perceptions of Food Retailer Corporate Social Responsibility." *International Food and Agribusiness Management Review* 22(May 2019):339-350.
82. Bir, C., N. Widmar, C. Wolf, and M. Delgado. "Traditional Attributes Moo-ve Over for Some Consumer Segments: Relative Ranking of Fluid Milk Attributes." *Appetite* 134(March 2019):162-171.
81. Lai, J., N.J. Widmar, and C.A. Wolf. "Dairy Farm Management Priorities and Implications." *International Food and Agribusiness Review* 22(January 2019):15-30.
80. Bir, C., Cummins, A.M., N.J. Widmar, and C.A. Wolf. "Willingness-to-Pay Estimates Informing Agribusiness Decision Making: A Cautionary Tale." *International Food and Agribusiness Management Review* 21(December 2018):865-882.
79. Hennessy, D., H. Feng, M. McKendree, and C. Wolf. "Dairy Sector Consolidation, Scale, Automation and Factor Biased Technical Change: Working Through 'Get Big or Get Out'." *Choices* 33(November 2018).
78. Novakovic, A. and C. Wolf. "Disorderly marketing in the 21st Century US Dairy Industry." *Choices* 33(November 2018).

77. McKendree, M., G. Tonsor and C. Wolf. “Animal Welfare Perceptions of the U.S. Public and Cow-Calf Producers.” *Journal of Agricultural and Applied Economics* 50(November 2018):544-578.
76. Ochs, D., C. Wolf, N. Widmar, and C. Bir. “Consumer Perceptions of Hen Housing Systems.” *Poultry Science* 97(October 2018):3390-3396.
75. Polzin, L., C. Wolf, and J. Black. “Accelerated tax depreciation and farm investment: Evidence from Michigan.” *Agricultural Finance Review* 78(May 2018):364-375.
74. Barrientos-Blanco, J., N. Thompson, N.J. Olynk Widmar, C.A. Wolf, and L. Unruh Snyder. “Expected value of crossbred dairy cattle artificial insemination breeding strategies in heifers and lactating cows.” *Livestock Science* 211(May 2018):66-74.
73. Hadrich, J., C. Wolf, J. Lombard, and T. Dolak. “Estimating milk yield and value losses from increased SCC scores on U.S. dairy farms.” *Journal of Dairy Science* 101(April 2018):3588-3596.
72. Hennessy, D. and C. Wolf. “Asymmetric Information and Externalities in Animal Disease.” *Journal of Agricultural Economics* 69(February 2018):226-242.
71. Ortega, D. and C. Wolf. “Demand for Farm Animal Welfare and Producer Implications: Results from a Field Experiment in Michigan.” *Food Policy* 74(January 2018):74-81.
70. Widmar, N., C. Morgan, C. Wolf, E. Yeager, and C. Croney. “U.S. Resident Perceptions of Dairy Cattle Management Practices.” *Agricultural Sciences* 8(July 2017):645-656.
69. Thompson, N., N. Widmar, M. Shutz, J. Cole and C. Wolf. “Economic considerations of breeding for polled dairy cows versus dehorning in the United States.” *Journal of Dairy Science* 100(June 2017):4941-4952. Selected as *Editor’s Choice*.
68. Wolf, C. and G. Tonsor. “Cow Welfare in the U.S. Dairy Industry: Willingness-to-Pay and Willingness-to-Supply.” *Journal of Agricultural and Resource Economics* 42(May 2017):164-179.
67. Wolf, C. “Using Institutional and Behavioral Economics to Examine the Animal Health System.” *The Economics of Animal Health. OIE Scientific and Technical Review* 36(April 2017): 67-74.
66. Hadrich, J., C. Wolf, and K. Johnson. “Characterizing U.S. Dairy Farm Income and Wealth Distributions.” *Agricultural Finance Review* 77(2017):64-77.
65. Novakovic, A. and C. Wolf. “Federal Interventions in Dairy Markets.” *Choices* 31(December 2016).
64. Wolf, C., M. Stephenson, W. Knoblauch, and A. Novakovic. “Dairy Farm Financial

- Performance: Firm, Year, and Size Effects.” *Agricultural Finance Review* 76(2016):532-543.
63. Widmar, N.J., E.S. Byrd, S. Dominick, C.A. Wolf, and L. Acharya. “Holiday consumption behaviors and social desirability bias.” *Preventive Medicine Reports* 4(July 2016):270-276.
 62. Widmar, N.J., E.S. Byrd, C.A. Wolf, and L. Acharya. “Health consciousness and consumer preferences for holiday turkey attributes.” *Journal of Food Distribution Research* 47(July 2016):83-97.
 61. Wolf, C., G. Tonsor, M. McKendree, D. Thomson and J. Swanson. “Public and farmer perceptions of dairy cattle welfare in the United States.” *Journal of Dairy Science* 99(July 2016):5892-5903.
 60. Wolf, C. and N.J. Olynk Widmar. “Can Insurance Provide the US Dairy Farm Safety Net?” *Agricultural and Food Economics* 3(May 2015).
 59. Wolf, C., M. Bozic, M. Stephenson, and K. Behnke. “Where the Grass is Always Greener: Dairy Farmer Location Preferences.” *Choices* 30(May 2015).
 58. Lord, E.D., N.J. Olynk Widmar, W.M. Hilton, B.A. Gloy, C.A. Wolf. “Evaluating the expected value of beef reproduction strategies in an era of volatile feed and cattle prices.” *Livestock Science* 174(April 2015):113-125.
 57. Horan, R., E. Fenichel, D. Finoff, and C. Wolf. “Arbitrage of Epidemiological Risks in Livestock Markets.” *Journal of Economic Dynamics and Control* 53(April 2015):192-207.
 56. Wolf, C., A. Novakovic, M. Stephenson, and W. Knoblauch. “Indicators of Dairy Farm Financial Condition as Policy Triggers.” *Journal of Agribusiness* 32(Fall 2014)127-143.
 55. Wolf, C. and N. Olynk Widmar. “Dairy Farmer Adoption of Forward-Pricing Methods.” *Journal of Agricultural and Applied Economics* 46(November 2014):527-541.
 54. Wolf, C. and G. Tonsor. “Dairy Farmer Policy Preferences.” *Journal of Agricultural and Resource Economics* 38(August 2013):220-234.
 53. Binkley, D., S. Harsh, C. Wolf, D. Kirk, and S. Safferman. “Electricity Purchase Agreements and Distributed Energy Policies for Anaerobic Digesters.” *Energy Policy* 53(February 2013):341-352.
 52. Olynk, N., C. Wolf, and G. Tonsor. “Production Technology Option Value: The Case of rbST in Michigan.” *Agricultural Economics* 43(November 2012 Supplement S1):1-9.
 51. Wolf, C. “Dairy Farmer Use of Price Risk Management Tools.” *Journal of Dairy Science* 95(July 2012):4176-4183.

50. Tonsor, G. and C. Wolf. "The Effect of Video Information on Consumers: The Case of Milk Production Attributes." *American Journal of Agricultural Economics* 94(2012):503-508.
49. Wolf, C., G. Tonsor, and N. Olynk. "Understanding US Consumer Demand for Milk Production Attributes." *Journal of Agricultural and Resource Economics* 36(August 2011):326-342.
48. Wolf, C., F. Lupi, and S. Harsh. "Farmer Demand for Financial Record-Keeping System Attributes." *Agricultural Finance Review* 71(2011):259-276.
47. Davis-Rincker, L., M. Vandehaar, C. Wolf, J. Liesman, L. Chapin, and M. Weber-Nielsen. "Effect of Intensified Feeding of Calves on Growth, Pubertal Age, Calving Age, Milk Yield, and Economics." *Journal of Dairy Science* 94(July 2011):3554-3567.
46. Tonsor, G. and C. Wolf. "On Mandatory Labeling of Animal Welfare Attributes." *Food Policy* 36(June 2011):430-437.
45. Vollmer-Sanders, C., C. Wolf, and S. Batie. "Financial and environmental consequences of a voluntary farm environmental assurance program in Michigan." *Journal of Soil and Water Conservation* 66(March/April 2011):122-131.
44. Hadrich, J. and C. Wolf. "Citizen Complaints and Environmental Regulation of Livestock Operations." *Journal of Animal Science* 89(January 2011):277-286.
43. Olynk, N., and C. Wolf. "Aligning Incentives for Contract Dairy Heifer Raising." *Journal of Agricultural and Resource Economics* 35(December 2010):489-502.
42. Hadrich, J., T. Harrigan and C. Wolf. "Economic Comparison of Liquid Manure Transport and Land Application in the Great Lakes Region." *Applied Engineering in Agriculture* 26(2010):743-758.
41. Horan, R., E. Fenichel, C. Wolf, and B. Gramig. "Managing Infectious Animal Disease Systems." *Annual Review of Resource Economics* 2(2010):101-124.
40. Wolf, C. "Understanding the Milk-to-Feed Price Ratio as a Proxy for Dairy Farm Profitability." *Journal of Dairy Science* 93(October 2010):4942-4948.
39. Gramig, B., C. Wolf and F. Lupi. "Understanding Adoption of Livestock Health Management Practices: The Case of Bovine Leukosis Virus." *Canadian Journal of Agricultural Economics* 58(September 2010):343-360.
38. Tonsor, G., and C. Wolf. "Drivers of Resident Support for Animal Care Oriented Ballot Initiatives." *Journal of Agricultural and Applied Economics* 42(August 2010):419-428.

37. Olynk, N., G. Tonsor and C. Wolf. "Livestock Producer Selection of Credence Attribute Verification System." *Journal of Agricultural and Applied Economics* 42(August 2010):439-452.
36. Olynk, N., G. Tonsor, and C. Wolf. "Consumer Willingness to Pay for Livestock Credence Attribute Claim Verification." *Journal of Agricultural and Resource Economics* 35(August 2010):261-280.
35. Olynk, N., C. Wolf and G. Tonsor. "Labeling of Credence Attributes in Livestock Production: Verifying Attributes Which are More than 'Meet the Eye'." *Journal of Food Law and Policy* 5(Fall 2009):182-199.
34. Tonsor, G., C. Wolf, and N. Olynk. "Consumer Voting and Demand Behavior Regarding Swine Gestation Crates." *Food Policy* 34(December 2009):492-498.
33. Tonsor, G., N. Olynk, and C. Wolf. "Consumer Preferences for Animal Welfare Attributes: The Case of Gestation Crates." *Journal of Agricultural and Applied Economics* 41(December 2009):713-730.
32. Wolf, C., J.R. Black and J. Hadrich. "Upper Midwest Dairy Farm Revenue Variation and Insurance Implications." *Agricultural Finance Review* 69(Fall 2009):346-358.
31. Pillars, R, C. Wolf, J. Kaneene, D. Grooms. "Economic Evaluation of Johne's Disease Control Programs Implemented on Six Michigan Dairy Farms." *Preventive Veterinary Medicine* 90(August 1, 2009):223-232.
30. Gramig, B., R. Horan and C. Wolf. "Livestock Disease Indemnity Design When Moral Hazard is Followed by Adverse Selection." *American Journal of Agricultural Economics* 91(August 2009):627-641.
29. Olynk, N. and C. Wolf. "Stochastic Economic Analysis of Dairy Cattle Artificial Insemination Reproductive Management Programs." *Journal of Dairy Science* 92(March 2009):1290-1299.
28. Groenendaal, H. and C. Wolf. "Farm-level Economic Analysis of the US National Johne's Disease Demonstration Herd Project." *Journal of the American Veterinary Medical Association*, 233(December 15, 2008):1852-1858.
27. Cook-Mowery, C., N. Olynk, and C. Wolf. "Farm-level Contracting for Production Process Attributes: An Analysis of the rbST Situation in Michigan Milk Production." *Journal of Food Law and Policy* 4(Fall 2008):177-208.
26. Olynk, N. and C. Wolf. "Economic Analysis of Reproductive Management Strategies on US Dairy Farms." *Journal of Dairy Science* 91(October 2008):4082-4091.

25. Horan, R., C. Wolf, E. Fenichel and K. Matthews. "Joint Management of Wildlife and Livestock Disease." *Environmental and Resource Economics* 41(September 2008):47-70.
24. Wolf, C., J. Lloyd and J.R. Black. "An Examination of US Consumer Pet and Veterinary Expenditures, 1980-2005." *Journal of the American Veterinary Medical Association* 233(August 1, 2008):404-413.
23. Hadrich, J., C. Wolf, J.R. Black and S. Harsh. "Incorporating Environmentally Compliant Manure Nutrient Disposal Costs into Least Cost Livestock Diet Formulation" *Journal of Agricultural and Applied Economics* 40(April 2008):287-300.
22. Ramirez, M. and C. Wolf. "Source Differentiated Mexican Dairy Import Demand." *International Food and Agribusiness Management Review* 11(2008):35-50.
21. Gramig, B. and C. Wolf. "Estimating Within-Herd Preventive Spillovers in Livestock Disease Management." *American Journal of Agricultural Economics* 89(December 2007):1219-1225.
20. Olynk, N. and C. Wolf. "Expected Net Present Value of Pure and Mixed Sexed Semen Artificial Insemination Strategies." *Journal of Dairy Science* 90(May 2007):2569-2576.
19. Hadley, G., C. Wolf and S. Harsh. "Dairy Cattle Culling Patterns, Explanations, and Implications." *Journal of Dairy Science* 89(June 2006):2286-2296.
18. Horan, R., C. Wolf, E. Fenichel and K. Matthews. "Spatial Management of Wildlife Disease." *Review of Agricultural Economics* 27(September 2005):483-490.
17. Horan, R. and C. Wolf. "The Economics of Managing Infectious Wildlife Disease." *American Journal of Agricultural Economics* 87(August 2005):537-551.
16. Maynard, L., C. Wolf and M. Gearhardt. "Can Futures and Options Markets Hold the Milk Price Safety Net?" *Review of Agricultural Economics* 27(Summer 2005):273-286.
15. Oehmke, J., C. Wolf and K. Raper. "On Cyclical Industry Evolution in Agricultural Biotechnology R&D." *Journal of Agricultural and Food Industrial Organization* 3(2005):Article 1.
14. Wolf, C. "Producer Livestock Disease Management Incentives and Decisions." *International Food and Agribusiness Management Review* 8(2005):46-61.
13. Oehmke, J. and C. Wolf. "Is Monsanto leaving money on the table? Monopoly pricing and Bt cotton value with heterogeneous adopters." *Journal of Agricultural and Applied Economics* 36(December 2004):705-718.
12. Oehmke, J. and C. Wolf. "Measuring Concentration in the Biotechnology R&D Industry: Adjusting for Inter-firm Transfer of Genetic Materials." *AgBioForum* 6(2003):134-140.

11. Wolf, C. "Custom Dairy Heifer Grower Industry Characteristics and Contract Terms." *Journal of Dairy Science* 86(September 2003):3016-3022.
10. Wolf, C. "The Economics of Dairy Production." Economics of the Red Meat and Dairy Industries. *Veterinary Clinics of North America: Food Animal Practice* 19(July 2003):271-293.
9. Wolf, C. "The Influence of Financial, Production, and Operator Characteristics on Dairy Farm Transfer Plans." *Journal of the American Society of Farm Managers and Rural Appraisers* 5(2003):129-133.
8. Sumner, D. and C. Wolf. "Diversification, Vertical Integration and the Regional Pattern of Dairy Farm Size." *Review of Agricultural Economics* 24(Fall/Winter 2002):442-457.
7. Hadley, G., S. Harsh, and C. Wolf. "Managerial and Financial Implications of Major Dairy Farm Expansions in Michigan and Wisconsin." *Journal of Dairy Science* 85(August 2002):2053-2064.
6. Oehmke, J. and C. Wolf. "And Then There Were Four: Concentration and Transgenic Crop R&D Performance." *Choices* (Spring 2002):11-15.
5. Wolf, C. and D. Banderob. "Voluntary Over-order Fluid Milk Premium Agreements with Implications for Policy Choices." *Journal of Cooperatives* 17(2002):33-48.
4. Wolf, C. and D. Sumner. "Are Farm Size Distributions Bimodal? Evidence from Kernel Density Estimates of Dairy Farm Size Distributions." *American Journal of Agricultural Economics* 83(February 2001):77-88.
3. Oehmke, J., D. Weatherspoon, C. Wolf, A. Naseem, and M. Maredia. "Is Agricultural Research Still a Public Good?" *Agribusiness: An International Journal* 16(2000):68-81.
2. Maredia, M., J. Oehmke, D. Weatherspoon, A. Naseem, and C. Wolf. "Public Agricultural Research and the Protection of Intellectual Property: Issues and Options." *AgBioForum* 2(1999):247-252.
1. Sumner, D. and C. Wolf. "Quotas Without Supply Control: Effects of Dairy Quota Policy in California." *American Journal of Agricultural Economics* 78(May 1996): 354-366.

Articles under review

- Bir, C., N. Widmar, C. Etumnu, N. Slipchenko, A. Polcyn, and C. Wolf. "Transitivity violation detection algorithm for discrete choice experiments." *Journal of Choice Modeling*. Third review. January 2021.

DeMuth, B., T. Malone, B. McFadden and C. Wolf. “What’s ‘Meat’? Predicting the Consequences of Nontraditional Meat-Labeling Regulation.” *Q Open*. August 2020.

Ufer, D., D. Ortega, C. Wolf, J. Swanson and M. McKendree. “Biotechnology that Improves Farm Animal Welfare: Market Acceptance of Gene-Editing and Immunocastration in the U.S. Pork Industry.” *Journal of Agricultural and Resource Economics*. December 2020.

Books and Book Chapters

Wolf, C. and N. Widmar. “Benchmarking Dairy Farm Financial Performance.” *Large Dairy Herd Management*. 2017.

Wolf, C. Chapter 2: “Economic determinants of farmer decision-making related to animal disease.” Chapter 3: “Insights from behavioural economics into farmer livestock disease management.” Chapter 4: “Issues of livestock disease management beyond the farm.” In *Producer Incentives in Livestock Disease Management*. OECD. 2017.

Wolf, C. “Livestock Disease Indemnity Design: Considering Asymmetric Information.” In *Livestock Disease Policies: Building Bridges Between Science and Economics*. Organization for Economic Cooperation and Development. 2013:127-138.

Meeting Critical Laboratory Needs for Animal Agriculture: Examination of Three Options. Committee on Analysis of Requirements and Alternatives for Foreign Animal and Zoonotic Disease Research and Diagnostic Laboratory Capabilities. National Research Council. The National Academies Press. Washington, DC. July 2012.

Horan, R.D., C.A. Wolf, and E.P. Fenichel. 2012. “Dynamic Perspectives on the Control of Animal Disease: Merging Epidemiology and Economics.” Chapter 6 in *Health and Animal Agriculture in Developing Countries: Natural Resource Management and Policy*, eds. David Zilberman, Joachim Otte, David Roland-Holst, & Dirk Pfeiffer, Volume 36, Part 2, 101-118. Springer-Verlag.

Wolf, C. “Livestock Disease Eradication Programs and Farm Incentives: The Case of Bovine Tuberculosis in Michigan.” In *The Economics of Livestock Disease Insurance: Concepts, Issues and International Case Studies*. Dana Hoag, Stephen Koontz, and Dawn Thilmany, eds. CABI press. January 2006. Chapter 15, pp. 181-192.

Oehmke, J., C. Wolf, K. Raper and A. Naseem. “Agricultural Biotech R&D Structure: Cyclical or Not?” In R.E. Evenson and V. Santaniello, *The Regulation of Agricultural Biotechnology*, 2004 (Wallingford, UK: CABI Publishing), Chapter 14, pp. 153-160.

Butler, L.J., and C. Wolf. “California Dairy Production: Unique Policies and Natural Advantages.” *Dairy Industry Restructuring: Research in Rural Sociology and Development*, H.K. Schwarzweller and A.P. Davidson, eds. JAI/ABLEX (Elsevier) Press. Volume 8, 2000.

Research Reports

- Wolf, C. “2019 Michigan Land Values and Leasing Rates.” MSU Department of Agricultural, Food and Resource Economics Report No. 652. July 2019.
- Wolf, C. “2018 Michigan Land Values and Leasing Rates.” MSU Department of Agricultural, Food and Resource Economics Report No. 651. September 2018.
- Wolf, C. “2017 Michigan Land Values and Leasing Rates.” MSU Department of Agricultural, Food and Resource Economics Report No. 650. September 2017.
- Wolf, C. and E. Wittenberg. “2016 Michigan Land Values and Leasing Rates.” MSU Department of Agricultural, Food and Resource Economics Report No. 649. Sep. 2016.
- Wittenberg, E. and C. Wolf. “2015 Michigan Land Values and Leasing Rates.” MSU Department of Agricultural, Food and Resource Economics Report No. 648. Oct. 2015.
- Wolf, C., A. Novakovic, M. Stephenson, and W. Knoblauch. “Indicators of Dairy Farm Financial Performance: Definitions, Patterns, and Policy Implications.” Report to the US Department of Agriculture, Office of the Chief Economist. January 2015.
- Wittenberg, E. and C. Wolf. “2014 Michigan Land Values and Leasing Rates.” MSU Department of Agricultural, Food and Resource Economics Report No. 645. Oct. 2014.
- Wittenberg, E. and C. Wolf. “2013 Michigan Land Values and Leasing Rates.” MSU Department of Agricultural, Food and Resource Economics Report No. 644. Oct. 2013.
- Wittenberg, E. and C. Wolf. “2012 Michigan Land Values and Leasing Rates.” MSU Department of Agricultural, Food and Resource Economics Report No. 643. Nov. 2012.
- Wolf, C. and S. Miller. “Economic Impact of the Michigan Equine Industry, 2006.” Jan. 2009.
- Wolf, C., J. Hadrich, R. Horan, P. Paarlberg, and J. Kaneene. “Economic Assessment of the US TB Eradication Program.” Report to the U.S. Department of Agriculture-Animal and Plant Health Inspection Service. September 2008.
- Wolf, C., J. Hadrich, C. Mahnken and S. Harsh. “The Structure and Competitiveness of the Michigan Dairy Farm Industry: Summary and Analysis of the 2005 MSU Survey.” Michigan State University *Agricultural Economics Report 633*. August 2007.
- Ramirez, M. and C. Wolf. “An Economic Analysis of the Mexican Dairy Sector and Prospects for U.S. Exports.” Report to the U.S. Dairy Export Council. October 2004.
- Maynard, L., C. Wolf and M. Gearhardt. “Milk Hedging Effectiveness and Policy Influences.” Report to USDA Economic Research Service, in “Dairy Option Pilot Program Evaluation.” USDA Economic Research Service, August 2003.

- Wolf, C. "Custom Dairy Heifer Growing: Summary and Analysis of a 2001 Grower Survey." Michigan State University *Agricultural Economics Report 615*. June 2002.
- Wolf, C., S. Harsh, S. Bucholtz, A. Damon and J. Lloyd. "Michigan Dairy Farm Industry: Summary and Analysis of the 1999 Michigan State University Dairy Farm Survey." *Michigan Agricultural Experiment Station Research Report 573*. December 2000.
- Wolf, C. and J. Ferris. "Economic Consequences of Bovine Tuberculosis for Michigan Livestock Agriculture." Report to the Michigan Department of Agriculture. December 2000.
- Banderob, D., C. Wolf, and L. Hamm. "Over-Order Premiums in the Michigan Milk Market: The History and Experience of the Producer's Equalization Committee." *Michigan Agricultural Experiment Station Research Report 570*. October 2000.

Published Abstracts and Discussions

- Olynk, N. and C. Wolf. "Identification of efficient sets of artificial insemination reproductive management programs: A stochastic dominance analysis." *Journal of Dairy Science* 91(E-Supplement 1, 2008):134-135 .
- Wolf, C., J. Hadrich and J. Black. "Potential Demand for Dairy Farm Revenue Insurance." *Journal of Dairy Science* 89(Supplement 1, 2006):398.
- Olynk, N. and C. Wolf. "Expected Net Present Value of Pure and Mixed Sexed Semen Artificial Insemination Strategies." *Journal of Dairy Science* 89(Supplement 1, 2006):135.
- Hadrich, J., C. Wolf, and S. Harsh. "Incorporating environmental compliance costs into livestock diet formulation." *Journal of Dairy Science* 89(Supplement 1, 2006):291.
- Wolf, C. "Specialization and contracting in the dairy industry: The case of custom heifer growers." *Journal of Dairy Science* 85(Supplement 1, 2002):177.
- Wolf, C. and S. Harsh. "Calculating the cost of producing milk: Methods and Implications." *Journal of Dairy Science* 85(Supplement 1, 2002):178.
- Hadley, G., C. Wolf, and S. Harsh. "Explanations associated with non-optimal culling rates." *Journal of Dairy Science* 85(Supplement 1, 2002):179.
- Hadley, G., C. Wolf, and S. Harsh. "Issues initial expanders should consider before expanding a dairy farm." *Journal of Dairy Science* 85(Supplement 1, 2002):179.
- Wolf, C. and M. Vandehaar. "Economics of dairy heifer growth programs." Invited Paper, 2001 American Dairy Science Association Annual Meetings, Indianapolis, IN. Abstract in *Journal of Dairy Science* 84(Supplement 1, 2001):224.
- Risch, C. and C. Wolf. "Profit maximizing calving intervals with limited labor resources."

- Journal of Dairy Science* 84(Supplement 1, 2001):77.
- Wolf, C. and D. Berwald. “The potential of dairy futures contracts as risk management tools.” *American Journal of Agricultural Economics* 81(December 1999):1302.
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Total awards to date: \$8,118,247

Wolf’s portion: \$2,045,731

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“Assessing and Designing Farm Financial Record Systems.” Project GREEN, Michigan Agricultural Experiment Station. \$10,000. April 2008-June 2009. (PI)

“Understanding Michigan Consumer Preferences for Livestock Products.” Michigan Agricultural Experiment Station and MSU Extension. G. Tonsor and C. Wolf. July 2007-December 2008. \$48,000. (Co-PI)

“Expanding the Land Base for Manure Use: Integrating Livestock- and Crop-based Cropping Systems.” Michigan Agricultural Experiment Station and MSU Extension. T. Harrigan, C. Wolf, L. Jacobs, and N. Rector. July 2007-December 2009. \$24,923. (Co-PI)

“Optimal livestock diet formulation with farm environmental compliance consequences.” Michigan Agricultural Experiment Station and MSU Extension.” C. Wolf. July 2005-December 2006. \$28,970. (PI)

“Michigan Equine Industry Status and Impacts.” Michigan Agricultural Experiment Station and MSU Extension.” C. Skelly, C. Wolf, M. Rossano, and J. Kaneene. July 2005-December 2006. \$42,000. (Co-PI)

“Understanding the Structure and Competitiveness of the Michigan Dairy Industry.” Michigan Agricultural Experiment Station and MSU Extension. C. Wolf. July 2004-December 2005. \$18,700. (PI)

“Economic Implications of Nutrient Balancing Programs on Michigan Livestock Operations.” Michigan Agricultural Experiment Station and MSU Extension. C. Wolf and S. Batie. July 2002-December 2003. \$25,877. (Co-PI)

“Optimal Culling Decisions for Michigan Dairy Farms.” Michigan Agricultural Experiment Station and MSU Extension. C. Wolf. July 2000-December 2001. \$18,922. (PI)

“Agribusiness Strategies and Public Investment in Agricultural Research for the Next Millennium: Theory and Application to the Michigan Dairy Industry.” Michigan Agricultural Experiment Station Social Science Disciplinary Grant. J. Oehmke, C. Wolf and D. Weatherspoon. January 1999-January 2003. \$75,000. (Co-PI)

“Assessing the Structure and Competitiveness of the Michigan Dairy Industry.” Michigan Agricultural Experiment Station and MSU Extension. C. Wolf. 1998-2000. \$15,700. (PI)

“Determining the Profitability and Production Efficiency of the Crop and Livestock Enterprises of Michigan Dairy Operations.” Michigan Agricultural Experiment Station and MSU Extension. S. Harsh and C. Wolf. 1997-2000. \$148,000. (Co-PI)

PRESENTATIONS

Invited Presentations

Wolf, C. “COVID-19 and the US Dairy Supply Chain.” Four-State Dairy Industry Conference. November 12, 2020.

Wolf, C. “The Economics of Animal Health and Livestock Disease: Discussion.” AAEP Handbook Webinar. October 26, 2020.

- Wolf, C. "COVID-19 Impacts and Lessons for the Dairy Industry." New York Cheesemaker's Association. September 15, 2020.
- Wolf, C. "COVID-19 Impacts on the US Dairy Supply Chain." DairyCon 2020. Northeast Dairy Foods Association. August 13, 2020.
- Wolf, C. "US Consumer Dairy Product Demand: Lessons from the Economics Literature." New York Cheesemaker's Association. Syracuse, NY. March 2, 2020.
- Wolf, C. "2020 US Agricultural Market and Policy Situation." Northeast Agribusiness and Feed Alliance. Albany, NY. February 5, 2020.
- Wolf, C. "Dairy Farm Financial Decision-Making in Turbulent Times." World Dairy Expo. Madison, WI. October 5, 2019.
- Wolf, C. "Strategies for Dairy Farms in Stressful Times." New York Banker's Association. Auburn, NY. July 12, 2019.
- Wolf, C. "Dairy Industry Pricing and Production Policy." Michigan Farm Bureau Dairy Advisory Committee. Lansing, MI. June 19, 2019.
- Wolf, C. "Consumer and Public Perceptions of Dairy Cattle Welfare: Implications for Practices, Policy, and Market Demand." Dairy Cattle Welfare Symposium. Orlando, FL. May 30, 2019.
- Wolf, C. "Dairy Markets and Trade Outlook." Michigan Dairy Industry Conference. Traverse City, MI. May 16, 2019.
- Wolf, C. "Economic Implications of Restricting Farm Production Practices." Dyson School of Applied Economics and Management. Cornell University. December 17, 2018.
- Wolf, C. "Michigan Dairy Market and Farm Financial Situation and Outlook." Michigan Banker's Association Ag Day. Lansing, MI. October 11, 2018.
- Wolf, C. "Dairy Revenue Protection Insurance: Overview and Mechanics." GreenStone Farm Credit Services. East Lansing. September 26, 2018.
- Wolf, C. "Dairy Policy Outlook: Trade and the Next Farm Bill." Michigan Dairy Industry Conference. Traverse City. May 17, 2018.
- Wolf, C. "What does NAFTA mean to US and Michigan Agriculture?" Michigan Farm Bureau Policy Conference. Mount Pleasant. February 13, 2018.
- Wolf, C. "Michigan Milk Check Economics." Great Lakes Regional Dairy Conference. Mount Pleasant, MI. February 8, 2018.

- Wolf, C. “Consumer and Public Perceptions of the US Dairy Industry: Implications for Practices, Policy, and Market Demand.” World Dairy Expo. October 6, 2017.
- Wolf, C. “Dairy Farm Financial Performance: Competitiveness and Policy Implications.” World Dairy Expo. October 6, 2017.
- Wolf, C. “Economic Issues and Policies Affecting the Michigan Dairy Industry.” Michigan Dairy Industry Conference. Lansing, MI. June 1, 2017.
- Wolf, C. “Stress and Resilience in the US Dairy Farm Industry.” National Workshop for Dairy Economists and Policy Analysts. San Diego, CA. May 3, 2017.
- Wolf, C. “Dairy Farm Financial Performance and the Actual Dairy Production Margin.” National Milk Producers Federation Economic Policy Leaders. Washington, DC. December 16, 2016
- Wolf, C. “Dairy Farm Financial Risk: Metrics and Management.” National Milk Producers Federation Annual Conference. Nashville. TN. October 31, 2016.
- Wolf, C. “Dairy Farm Financial Performance: Comparison of Metrics.” New York Bankers Association. Batavia, NY. July 8, 2016.
- Wolf, C. “Dairy Industry Trends and Implications.” Michigan Dairy Industry Conference. Holland, MI. May 26, 2016.
- Wolf, C. “Public and Farmer Perceptions of Cattle Welfare in the United States: Implications for Demand and Policy.” Center for Animal Welfare Science Symposium. May 18, 2016. West LaFayette, IN.
- Wolf, C. “Benchmarking Dairy Farm Financial Performance.” Large Dairy Herd Management Conference. May 2-4, 2016. Oak Brook, IL.
- Wolf, C. “Producer incentives in livestock disease management: A synthesis of conceptual and empirical studies.” Organization for Economic Cooperation and Development. March 19, 2016. Paris, France.
- Wolf, C. “US Public and Producer Dairy Cattle Welfare Perceptions and Attitudes.” Center for Animal Welfare Science Symposium, May 21, 2015. West LaFayette, IN.
- Wolf, C., W. Knoblauch, M. Stephenson, and A. Novakovic. “The Actual Dairy Producer Margin and Farm Financial Performance.” 22nd Annual National Workshop for Dairy Economists and Policy Analysts. April 30, 2015. Portland, OR.
- Wolf, C., W. Knoblauch, M. Stephenson, and A. Novakovic. “Measuring Farm Financial Performance: Implications for Markets and Policy.” 21st Annual National Workshop for Dairy Economists and Policy Analysts. May 1, 2014. Milwaukee, WI.

- Wolf, C. "Dairy Situation and Outlook." Midwest and Great Plains Outlook Conference. August 13, 2013. Indianapolis, IN.
- Wolf, C. "Indemnity Design Against Moral Hazard and Adverse Selection." Livestock Disease Policies: Building Bridges Between Animal Sciences and Economics. June 2013. Organization for Economic Cooperation and Development, Paris.
- Wolf, C. "The Effect of Risk on Dairy Farm Management." World Dairy Expo. October 5, 2012. Madison, WI.
- Wolf, C. "Growth Management, Milk Price, and Margin Outcomes." 19th Annual National Workshop for Dairy Economists and Policy Analysts. May 12, 2012. Salt Lake, UT.
- Tonsor, G. and C. Wolf. "The Effect of Video Information on Consumers: The Case of Milk Production Attributes." Organized Symposium presentation Agricultural and Applied Economics Association Annual Meeting. July 2011. Pittsburgh, PA.
- Wolf, C. "rbST Supply Chain Decisions." Department of Agribusiness and Agricultural Economics. North Dakota State University. October 8, 2010.
- Wolf, C., B. Gramig, and R. Horan. "Implementing Incentive Compatible Livestock Disease Indemnities." Alternative Methods for Livestock Compensation Workshop. USDA-APHIS. Fort Collins, CO. July 23, 2010.
- Wolf, C. "Dairy Situation and Prospects for the Upper Midwest Dairy Industry." Perspectives on the Future of Midwest Agriculture Conference, Federal Reserve Bank of Chicago. December 1, 2009.
- Wolf, C. R. Horan, and F. Xie. "A Bioeconomic Model to Predict Livestock Disease Spread." USDA ERS PREISM Conference. Washington, DC. October 23, 2009.
- Wolf, C. "Economic Analysis of US TB Eradication Program Options." USDA-APHIS. Washington, DC. October 6, 2008.
- Wolf, C. and H. Groenendaal. "Farm Level Economic Analysis of Johne's Disease Control Programs." Johne's Disease Integrated Program 4th Annual Meeting. East Lansing, 2008.
- Wolf, C. "Simulating TB Spread for Economic Analysis." USDA-APHIS. Washington, DC. February 19, 2008.
- Wolf, C., R. Horan, and E. Fenichel. "Joint Management of Livestock and Wildlife Disease." USDA ERS PREISM Conference. Washington, DC. October 19, 2007.
- Wolf, C. "Marketing Producer Milk without Federal Orders." Dairy Farmers of America Midwest and Central Area Council Meeting. Chicago, IL. October 10, 2007.

- Wolf, C. "Procuring Milk without Federal Orders: The Mideast Perspective." Wisconsin Cheesemakers Conference. Lacrosse, WI. April 19, 2007.
- Wolf, C. and H. Groenendaal. "Economic Implications of Voluntary Johne's Disease Control." National Johne's Working Group. Sacramento, CA. April 1, 2007.
- Wolf, C. "Economic Issues Related to Raising Dairy Replacements." 11th Annual Professional Dairy Heifer Growers Association Conference. Burlington, VT. March 21, 2007.
- Wolf, C., R. Horan and B. Gramig. "US Livestock Indemnity Policy Incentives and Implications." USDA ERS PREISM Conference. Washington, DC. October 20, 2006.
- Wolf, C. "The Upper Midwest Dairy Cluster: Decline or Revitalization?" Porter Cluster AAEA Pre-Conference. Providence, RI. July 23, 2005.
- Wolf, C. "A Decade of Bovine Somatotropin: What have we learned about the economics of rbST?" Pacific Northwest Dairy Nutrition Conference. Seattle, WA. October 5, 2004.
- Wolf, C. "Public and Private Economic Incentives for Livestock Disease Control." Economic Impact of Animal Disease on the Food Marketing Sector Conference. Denver, CO. July 11, 2003.
- Wolf, C. "Experience with use of USDA Farm Costs and Returns Data." AAEA USDA Post-Conference. Long Beach, CA. July 31, 2002.
- Wolf, C. "Attaining Promotion and Tenure with an Extension Appointment: Perspective of a Current Candidate." AAEA Organized Symposium. Long Beach, CA. July 30, 2002.
- Wolf, C and S. Harsh. "Farming as an Enterprise: Challenges and Opportunities, the U.S. Perspective." International Farm Management Congress. Arnhem, The Netherlands. July 12, 2002.
- Wolf, C. "The Economic Impacts of Bovine TB in Michigan Agriculture." International Bovine Tuberculosis Conference. Lansing, Michigan. March 6, 2001.
- Wolf, C. "Effects of Bovine TB in Michigan Agriculture." Michigan Agri-Business Association Winter Conference. Lansing, Michigan. January 17, 2001.
- Wolf, C. "Risk Management, Technology Adoption and Structural Change in the US Dairy Industry." International Agricultural Economics Association meeting. Berlin, Germany. August 2000.
- Wolf, C. "Structural Change in Michigan and US Dairy Farms." Michigan Dairy Industry Conference. Mount Pleasant, Michigan. April 2000.
- Wolf, C. "Economic Costs of Bovine TB to Michigan Agriculture." International Bovine

Tuberculosis Conference. Lansing, Michigan. March 2000.

Selected Papers, Posters and Symposium Presentations (not previously listed as abstracts)

- Malone, T., C. Wolf and B. McFadden. “Can you really milk an almond? Predicting Effects of Mandatory Labeling Changes in U.S. Dairy Markets.” AAEA Annual Meeting, Atlanta, GA 2019.
- Wolf, C. and G. Tonsor. “Dairy Farmer Willingness-to-Supply Animal Welfare Related Practices.” AAEA Annual Meeting, San Francisco, CA. July 2015.
- Wolf, C., M. Stephenson, W. Knoblauch, and A. Novakovic. “Firm, Year, and Industry Structure Effects in the Analysis of Dairy Farm Financial Performance.” AAEA Annual Meeting, San Francisco, CA. July 2015.
- Hadrich, J., C. Wolf and K. Johnson. “Characterizing U.S. Dairy Farm Wealth and Income Distributions.” AAEA Annual Meeting, San Francisco, CA. July 2015.
- Bozic, M., C. Wolf, F. Yang, J. Newton, and C. Thraen. “Margin Protection Program for Dairy Producers: Implementation, Participation, and Consequences.” AAEA Crop Insurance and the 2014 Farm Bill Symposium. Louisville, KY. October 2014.
- Newton, J., M. Bozic, C. Wolf, and C. Thraen. “Option Valuation and Speculative Interest in a MPP-Dairy Margin Futures Contract.” AAEA Crop Insurance and the 2014 Farm Bill Symposium. Louisville, KY. October 2014.
- Wolf, C., M. Bozic, J. Newton, and C. Thraen. “Moove Over: Will Government Margin Protection Crowd Out Private Risk Management?” AAEA Crop Insurance Symposium. October 2013. Louisville, KY.
- Wolf, C. and G. Tonsor. “Dairy Farmer Preferences for the 2012 Farm Bill.” Selected Paper, 2012 AAEA Annual Meeting, Seattle, WA.
- Wolf, C., F. Lupi, and S. Harsh. “Market Segments and Farmer Preferences for Financial Record Systems.” 2011 AAEA Annual Meeting, Pittsburgh, PA.
- Olynk, N., C. Wolf, and G. Tonsor. “Producer Technology Use and the Value of Autonomy: The Case of rbST.” 2010 AAEA Annual Meeting, Denver, CO.
- Tonsor, G., N. Olynk, and C. Wolf. “Media Coverage of Animal Handling and Welfare: Influence on Meat Demand.” 2009 AAEA Annual Meeting, Milwaukee, WI.
- Hadrich, J., C. Wolf., and F. Lupi. “Manure Handling System Attributes Impact on Manure Management Investment Decisions: A Random Utility Model Approach.” Selected Paper, 2008 AAEA Annual Meeting, Orlando, FL.

- Gramig, B., R. Horan, and C. Wolf. "Livestock Disease Indemnity Design When Moral Hazard is Followed by Adverse Selection." Selected Paper, 2008 AAEA Annual Meeting, Orlando, FL.
- Olynk, N. and C. Wolf. "Aligning Incentives for Accelerated Heifer Growth in Custom Heifer Growing Contracts." Selected Paper, 2008 AAEA Annual Meeting, Orlando, FL.
- Tonsor, G., N. Olynk, and C. Wolf. "Consumer Preferences for Animal Welfare Attributes: Case of Gestation Crates." Selected Paper, 2008 AAEA Annual Meeting, Orlando, FL.
- Gramig, B. and C. Wolf. "Estimating Within-Herd Preventive Disease Spillovers." Principal Paper, 2007 AAEA Annual Meeting, Portland, OR.
- Olynk, N. and C. Wolf. "Structural Change in the US Dairy Herd: A Markov Analysis." Selected Poster, 2007 AAEA Annual Meeting, Portland, OR.
- Wolf, C., J. Hadrich, and J.R. Black. "Dairy Farm Revenue Insurance: Is the Application Viable?" Selected Paper, 2006 AAEA Annual Meeting, Long Beach, CA.
- Gramig, B., C. Wolf, and F. Lupi. "Fractional Logit Estimation Method for Economic Analysis of Herd-level Livestock Health: Bovine Leukosis Virus on U.S. Dairy Farms." 2006 AAEA Annual Meeting, Long Beach, CA.
- Hadrich, J., C. Wolf, and S. Harsh. "Optimal Livestock Diet Formulation with Farm Environmental Consequences." Selected Paper, 2005 American Agricultural Economics Association Annual Meetings, Providence, RI.
- Gramig, B., R. Horan and C. Wolf. "A Model of Incentive Compatibility under Moral Hazard in Livestock Disease Outbreak Response." Selected Paper, 2005 American Agricultural Economics Association Annual Meetings, Providence, RI.
- Horan, R., C. Wolf, E. Fenichel, and K. Matthews. "Spatial Management of Wildlife Disease." Selected Paper, 2005 Allied Social Science Association Meetings, Philadelphia, PA.
- Horan, R., C. Wolf, and E. Fenichel. "Controlling Wildlife and Livestock Disease with Endogenous On-Farm Biosecurity." Selected Paper, 2004 American Agricultural Economics Association Annual Meetings, Denver, CO.
- Horan, R., E. Fenichel, C. Wolf. "The Role of Sexual Dimorphism in the Economics of Wildlife Disease Management." Selected Paper, 2004 American Agricultural Economics Association Annual Meetings, Denver, CO.
- Oehmke, J. and C. Wolf. "BST and US Dairy Policy: Do Technology and Policy Conspire Against Small Farmers?" International Biotechnology Meeting, Ravello, Italy. July 2004.
- Wolf, C., S. Harsh and E. Wittenberg. "Using the Cost of Producing Milk to Make Management

Decisions: Is Some Number Better than No Number?" Triennial Farm Management Conference. June 15, 2004.

Horan, R. and C. Wolf. "The Economics of Managing Wildlife Disease." Selected Paper, 2003 American Agricultural Economics Association Annual Meetings, Montreal, QC.

Maynard, L., C. Wolf and M. Gearhardt. "Policy Interactions and Conflicts with U.S. Milk Hedging Effectiveness." Organized Symposium, 2003 American Agricultural Economics Association Annual Meetings, Montreal, QC.

Wolf, C. and J. Oehmke. "Did Monsanto Leave Money on the Table? Technology Valuation with Heterogeneous Adopters." Selected Paper, 2002 American Agricultural Economics Association Annual Meetings, Long Beach, CA.

Wolf, C. "Productivity, Herd Size and Technology Adoption." Organized Symposium, 2002 American Agricultural Economics Association Annual Meetings, Long Beach, CA.

Oehmke, J. and C. Wolf. "Cyclical Concentration and Biotech Activity." International Agricultural Economics Association meeting. Berlin, Germany. August 2000.

Lupi, F. and C. Wolf, "Economic Issues Related to Transmission of Bovine Tuberculosis from Deer to Domestic Livestock in Michigan," USDA National Wildlife Research Center, Conflicts Between Humans and Wildlife. Fort Collins, CO. August 3, 2000.

Wolf, C. and Derek Berwald. "The Information Content of Dairy Options Contracts." Selected Paper, 2000 American Agricultural Economics Association Annual Meetings, Tampa.

Wolf, C., D. Weatherspoon and J. Oehmke. "Economic Decisions in Biotechnology Commercialization: Lessons for Small Firms and Universities." International Agricultural Marketing Association Conference. Chicago, Illinois. June 2000.

Wolf, C. and D. Sumner. "Dairy Policy and the Value of the California Milk Quota," Western Economics Association Annual Meetings. Vancouver, British Columbia. July 1994.

Selected Extension Programs and Presentations

"Milk Market Outlook." NY Ag Milk Market Advisory Committee. November 9, 2020.

"Dairy Price Risk Management." Cornell Extension Webinar. November 3 and 10, 2020.

"Mysteries of Your Milk Check." Cornell Extension Webinar. October 14, 2020.

"Dairy Market Trends and Economic Implications." Cornell Dairy Executive Education. February 27, 2020. Ithaca.

- “Consumer Trends and Structural Change in the Dairy Industry.” Dyson Outlook Conference. January 17, 2020. Ithaca.
- “US Dairy Market and Policy Situation and Outlook.” North Country Dairy Days. Three locations in New York. January 3, 22, and 24, 2020.
- “2020 Dairy Market Outlook.” Michigan Ag Credit Conference. October 23, 2019. East Lansing.
- “US Dairy Trade: Trends, Wars and Farm Effects.” Dairy Farmers of America. Ithaca, NY. September 17, 2019.
- Michigan Agricultural Credit Outlook Conference. Organizer, moderator, and presenter. East Lansing, MI. “Michigan Milk Price Situation and Policy Outlook.” Annually 2000-2018.
- “Dairy Margin Coverage Program and 2019 Milk Price Outlook.” John Deere Forage Day. East Lansing. February 20, 2019.
- “Dairy Margin Coverage Program Decisions.” Michigan Milk Producer’s Association Meetings. St Johns and Sandusky MI. February 12 and 13, 2019; MSU Webinar April 15, 2019; GreenStone FCS webinar May 7, 2019.
- “Dairy Revenue Protection: Farm Decisions.” St. Johns, MI. December 5, 2018.
- “The 2018 Dairy Margin Protection Program: Overview and Decisions.” Seven locations across Michigan. April and May 2018.
- “Dairy Economic Issues in 2018.” John Deere Forage Day. East Lansing. March 13, 2018.
- “Dairy Market Situation and Outlook.” Bi-monthly webinar. 2012-2017.
- “Understanding your Milk Check.” MSU Extention. Cadillac, MI. December 1, 2017.
- “Dairy LGM: Is it a viable option in 2018?” Michigan Dairy Industry Advisory Committee. November 9, 2017.
- “Dairy Farm Financial Decision-making in 2016 and Beyond.” Seven locations around Michigan February-March 2016.
- “US Dairy Market Outlook and Implications for Farm Financial Decision-making.” January 27 (Cadillac) and 28 (St Johns), 2016.
- “Dairy Trends and Michigan Implications.” Michigan Agri-Business Association Annual Conference. Lansing, MI. January 12, 2016.
- “The Dairy Margin Protection Program: 2015 Decisions and Outlook.” Organizer and presenter. Seven locations around Michigan. September-November 2015.

- “The Dairy Margin Protection Decision.” National on-line webinar. Co-presenter. Sept. 4, 2015.
- “Michigan Milk Production Growth and Margin Risk.” Michigan Dairy Industry Conference. May 14, 2015. Holland, MI.
- “The Dairy Margin Protection Program: Information and Opportunities.” Organizer and presenter. 14 locations around Michigan and 4 in Indiana. September-November 2014.
- “2012 Dairy Situation and Outlook.” Michigan Agricultural Commodity Expo. Lansing, MI. January 26, 2012 and Michigan Dairy Industry Conference, Mount Pleasant, May 2012.
- “Risk Management for Dairy Farms: Costs, Cash Flow and Milk Price.” Four locations around Michigan. June 2011
- “Dairy Markets and Policy Situation and Outlook.” Farm Bureau Policy Committee. South Haven, Michigan. May 24, 2011
- “Risk Management for Dairy Farms: Tools and Issues.” 6 locations around Michigan. March and April, 2011.
- “Positioning your dairy farm for the future: Risk management.” Great Lakes Regional Dairy Conference. Frankenmuth, MI. February 4, 2011.
- “Future Directions of US Dairy Policy.” Michigan Farm Bureau Convention. December 1, 2010.
- “Dairy Margin Protection Plans.” Michigan Farm Bureau Policy Committee. October 6, 2010.
- “The Economics of Milk Production and the US Dairy Value Chain.” WorldTAP International Short Course in Milk Production. August 20, 2010.
- “Positioning Your Dairy Business for the Future: Intensive Strategic Workshop for Dairy Producers.” Primary Organizer and Presenter. Hillsdale and Grand Rapids. Mar-Apr 2010.
- “Consumer Preferences, Attitudes and Information Sources for Animal Welfare and Food Safety.” Michigan Dairy Industry Conference. Mount Pleasant, MI. May 21, 2009.
- “Managing Milk Cost of Production.” Michigan Milk Producers Advisory Board. Apr.23, 2009.
- “Overview of Economic Issues in Michigan Livestock Agriculture.” State of Michigan Senate Fiscal Committee. August 22, 2008.
- “Cooperatives and Milk Marketing Orders.” Dairy Farmers of America Mideast Region Council. June 18, 2008. Cleveland OH.
- “Dairy Situation and Outlook.” Antrim DHI. April 16, 2008. Ellsworth, MI.

- “Dairy Situation and Economic Outlook.” Ohio Dairy Producers Association. March 4, 2008. Wooster, OH.
- “High Feed Prices: The Perfect Storm or a New Weather Pattern?” Presented as part of 9 locations across Michigan January, February, and March 2008.
- “Dairy Situation and Outlook.” Michigan Agribusiness Association Conference. Lansing, MI. January 14, 2008.
- “Human capital and structural change in US Agriculture.” Farm it Forward. Hickory Corners, Michigan. January 4, 2007.
- “The Structure, Efficiency and Competitiveness of the Michigan Dairy Farm Industry.” Michigan Banker’s Association Annual Meeting. Lewiston, MI. September 28, 2006.
- “Basics of Milk Pricing and Contracting.” Michigan Milk Producer’s Association Forward Contracting 101. Lansing. February 3, 2005.
- “Dairy Market and Policy Outlook.” Three locations (St. Johns, Sandusky and West Branch). November and December 2004.
- “An Economic Snapshot of the Michigan Dairy Industry.” 60th Michigan Dairy Industry Conference. Lansing. April 29, 2004.
- “Dairy Marketing 101: Producer Price Risk Management.” Co-Organizer and Primary Presenter. Five locations. January-March 2004.
- “The Cooperatives Working Together Program and Dairy Policy Outlook.” Michigan Veterinary Conference. Lansing. January 24, 2004.
- “Michigan Dairy Profitability Trends” and “Risk Management and Cash Flow.” Presented at dairy meeting in Burnips and Westphalia. August 12 and 25, 2003.
- “Market Outlook and Voluntary Supply Control.” Presented at four meetings in UP and Northern Michigan, June 19-20, 2003.
- “Calculating the cost of producing milk: Methods, benchmarks and implications.” Presented to the Young Cooperators Conference of Michigan Milk Producers Association. April 2003.
- “Milk Market Situation and Outlook,” Presented to the Indiana Professional Dairy Producers. February 8, 2003.
- “Economics of Culling Decisions” and “Making Business Decisions Using Culling Information.” MSU Extension Dairy Management Program (12 locations in Michigan and Indiana). Jan.-Feb., 2003.
- “The 2002 Dairy Title and Farmer Decision Making.” Presented to Farm Bureau, Extension,

- FSA, and credit personnel. August 29, 2002.
- Organized and coordinated Michigan Dairy Options Pilot Program with U.S. Department of Agriculture-Risk Management Agency. Presented “Basics of Put Options for Milk Price Risk Management.” Three locations, June 11-13, 2002.
- “Economic Impacts of Nutrient Management Strategies for Representative Michigan Dairy Farms.” Michigan Environmental Assurance Program Incentives Committee. May 2002.
- “Economics of bovine tuberculosis impacts.” Presented to Michigan TB Livestock and Wildlife Stakeholders Committee. December 6, 2001.
- “Risk Management Strategies for Dairy Farms.” Presented to Michigan farmers in four locations. March-August 2001.
- Organized and coordinated Michigan Dairy Options Pilot Program with U.S. Department of Agriculture-Risk Management Agency. Moderated and presented “Basics of Put Options for Milk Price Risk Management.” Five locations, July 16-20, 2001.
- “Potential Economic Implications of Foot-and-Mouth Disease for US Agriculture.” Michigan Food Safety Alliance. April, 2001.
- “New Economic Realities: Farm Financial Management in a Changing Environment.” Workshop for Michigan farmers at various locations. February-March, 1999 and 2000.
- “The cost of milk production in Michigan: Methods and results.” Presented to the Michigan Dairy Industry Committee and MSUE Dairy Team. December 2000.
- “Agricultural economics research in bovine tuberculosis.” Presented to Michigan TB Livestock and Wildlife Stakeholders November and Michigan Dairy Industry Committee in December 2000.
- Organized and coordinated Michigan Dairy Options Pilot Program with U.S. Department of Agriculture-Risk Management Agency. Moderated and presented “Milk Price Risk Management: The Basics of Put Options.” Three locations. August 7-9, 2000.
- “Milk Check Economics: Implications of Federal Order Reform.” Presented to Cargill Animal Nutrition. May 2000.
- “Understanding Today’s Dairy Environment: Structural Change and Federal Order Reform.” Presented to Michigan dairy farmers in McBain. March 2000.
- Co-organized and presenter of “Identifying and Managing Risk on Dairy Farms,” Three-day workshops for Michigan dairy farmers in Ubly and St. Johns. February 2000.
- “The Economics of Reproductive Success on Dairy Farms.” Presented for MSU Extension Dairy

Management Program (14 locations in Michigan and Indiana). January-February 1999.

“The Price Risk Environment for Dairy Farms,” Presented to Michigan dairy farmers in West Branch and Clare. November 1999.

“Background of Federal Milk Marketing Order Reform,” Presented at the MSU Federal Order Reform Teleconference. June 1999.

“Identifying and Managing Risks on Dairy Farms.” Michigan Professional Dairy Farmers. March 1999.

“Cost of Production and the Changing Structure of the U.S. Dairy Industry.” Presentation to Michigan Professional Dairy Farmers. February 1998.

In-Service Training Programs

“Helping Farm Business Owners Evaluate Financial Risks.” Cornell Cooperative Extension In-Service. November 6, 2020.

“COVID-19 and the US Dairy Supply Chain.” Cornell Cooperative Extension In-Service. November 5, 2020.

“Dairy Situation and Outlook Highlights and What to do about it.” Cornell Cooperative Extension In-Service. November 7, 2019.

“The Dairy Revenue Protection Insurance Program.” MSUE Dairy and FIRM team and GreenStone Farm Credit Services. September 14, 2018.

“Michigan Milk Check Economics: Understanding Market Balancing Costs.” MSUE Inservice: Dairy and FIRM Team. October 20, 2017.

“MPP-Dairy Producer Decisions and Outlook.” MSUE In-service: Dairy and FIRM team. September 11, 2015.

“The Dairy Margin Protection Program: Information and Producer Decision Support.” MSUE In-service: Dairy and FIRM team. August 27, 2014.

“Consumer and Resident Drivers of Change, Economic Implications, and Unanswered Important Questions.” MSUE In-Service: Discussions on Animal Well-Being and Environment December 15, 2009

“Feed Price, Dairy Situation, and Farm Financial Consequences.” Inservice for MSU Extension. June 17, 2008.

“Profitability and Cash Flow on Michigan Dairy Farms.” Presented to MSU Extension.

Primary organizer and presenter. August 21-22, 2006.

Farm Financial Management Inservice. Presented to MSU Extension. Member of organizing committee and presenter. September 25, 2002.

“Dairy Farm Implications of the 2002 Farm Bill.” Presented to MSU Extension. June 2002.

“Milk Price Variation and Price Risk Management Strategies.” Primary organizer and presenter MSU Dairy Team Inservice. April, 2001.

“Cost of production estimates: What do they mean and who uses them?” Presented to Michigan Agricultural Statistics Service personnel and survey enumerators. February, 2001.

Podcasts and Webinars

Hoard’s Dairy Livestream Webinar. “Federal Orders and their Function.” November 18, 2020. <https://hoards.com/article-29093-dairylivestream-november-18-2020.html>

Hoard’s Dairy Livestream Webinar. “Taking a Position on Milk Prices.” November 4, 2020. <https://hoards.com/article-29016-dairylivestream-november-4-2020.html>

Hoard’s Dairy Livestream Webinar. “Farm Finances and Future Vision.” September 1, 2020. <https://hoards.com/article-28597-dairylivestream-september-1-2020.html>

Hoard’s Dairy Livestream Webinar. “Accounting for every nickel during COVID-19.” August 5, 2020. <https://hoards.com/article-28431-dairylivestream-august-5-2020.html>

Hoard’s Dairy Livestream Webinar. “Is the milk price rebound real?” June 24, 2020. <https://hoards.com/article-28174-dairylivestream-june-24-2020.html>

Wolf, C. “Practical Risk Management Implications for Commercial Dairy Farms.” Cornell Pro-Dairy Webinar. June 3, 2020.

Hoard’s Dairyman Livestream Webinar. “The Dairy Finance Pivot.” May 20, 2020. <https://hoards.com/article-27919-dairylivestream-may-20-2020.html>

Hoard’s Dairyman Livestream Webinar. “Coops, Customers, and COVID-19.” May 6, 2020. <https://hoards.com/article-27820-dairylivestream-may-6-2020.html>

Hoard’s Dairyman Livestream Webinar. “Reducing Milk Production.” April 29, 2020. <https://hoards.com/article-27761-dairylivestream-april-29-2020.html>

Hoard’s Dairyman Livestream Webinar. “Economics of Milk Dumping.” April 15, 2020. <https://hoards.com/article-27577-dairylivestream-april-15-2020.html>

Cornell PRO-Dairy Podcast Episode 6: Milk Supply Chain, Price and Policy Challenges. April 7, 2020. <https://soundcloud.com/user-846439092/episode-6-milk-supply-chain-challenges>.

Cornell Food Science Office Hours Webinar. April 16, 2020; May 5, 2020, May 19, 2020.

Popular Media Contributions/Mentions

“Farm Talk” hosted by Maire Ullrich. WTBQ Warwick NY. April 8, 2020. Discussion of dairy supply chain issues.

Why farmers are dumping milk while grocery stores are reporting shortages. Jessica Fu. *The Counter*. <https://thecounter.org/farmers-dumping-milk-dairy-shortages-covid-19-coronavirus/> April 8, 2020

STUDENT THESIS/COMMITTEE CHAIR

Duane Banderob, M.S. Thesis: “Price and Firm Behavior in the Michigan Fluid Milk Market: A Study of the Producer’s Equalization Committee, 1980–1998.” January 2000.
Kenneth Naden Thesis Award from the National Council of Farmer Cooperatives and Outstanding Master’s Thesis MSU Department of Agricultural Economics.

Vijayanand Satayal, M.S. Thesis: “Economic and Environmental Impact of Manure Management Strategies for Representative Michigan Dairy Farms.” December 2001.

Corey C. Risch, M.S. Thesis: “Valuing Reproductive Management Changes in a Dairy Herd: The Effect of Lactation Curve Specification.” August 2002.

Juan Penaherrera, M.S. Thesis: “The Potential for Cooperation Among Dairy Farmers in the Cayambe Region of Ecuador.” June 2003.

Miguel Ramirez, M.S. Thesis: “An Economic Analysis of the Mexican Dairy Sector with Prospects for US Dairy Exports.” August 2003.

Gregg Hadley, Ph.D. Dissertation: “Factors Influencing Dairy Cattle Culling Decisions and their Economic Implications.” December 2003.

Curtis Mahnken, M.S. Thesis: “Michigan Dairy Farm Efficiency and Profitability, 1995-2004.” June 2007.

Joleen C. Hadrich. M.S. Thesis: “Incorporating Environmentally Compliant Excess Nutrient Disposal Costs into Livestock Diet Formulation Decisions.” May 2007.
AAEA Graduate Student Extension Competition—Third Place 2007.
Ph.D. Dissertation: “Essays on Nutrient Management Risk in Livestock Production.” August 2009.

Nicole J. Olynk. M.S. Thesis: “Economic Decisions of Reproduction Programs on US Dairy Farms.” March 2008.

AAEA Graduate Student Extension Competition—First Place 2007.

Ph.D. Dissertation: “Agricultural Producer Responses to Changes in Consumer Demand for Production Process Attributes.” December 2009.

Phil Taylor. M.S. Thesis: “Methods of Change and Financial Performance of Dairy Farms Before and After a Switch to Management Intensive Grazing.” December 2009.

Jacob McManus. M.S. Thesis: “Economics of High Density Cherry Production.” May 2012.

Carolyn Braun. M.S. Thesis: “Benchmarking Farm Financial Performance: Stability and Management Implications.” July 2014.

Leonard Polzin. M.S. Thesis: “The Value of Accelerated Depreciation Use by Farmers: Evidence from Michigan.” May 2016.

Daniel Ochs. M.S. Thesis: “Essays on Laying Hen Housing and Egg Demand.” May 2018.

SELECTED SERVICE CONTRIBUTIONS

Professional Service

Associate Editor, *Journal of Dairy Science*, 2020-2022

Reviewer for *American Journal of Agricultural Economics*, *Applied Economics Perspectives and Policy/Review of Agricultural Economics*, *CHOICES*, *Journal of Agricultural and Resource Economics*, *Journal of Agricultural and Applied Economics*, *Journal of Dairy Science*, *Agricultural and Resource Economics Review*, *Canadian Journal of Agricultural Economics*, *Agricultural Economics*, *Agribusiness: An International Journal*, *Journal of Agribusiness*, *International Food and Agribusiness Management Review*, *ACTA Agriculturae Scandinavica*, *Western Economics Forum*, *Ecological Economics*, *World Development*, *Journal of Animal Science*, *Canadian Journal of Animal Science*, *Livestock Science*, *Australian Journal of Agricultural and Resource Economics*, *Journal of the American Veterinary Medical Association*, *Preventive Veterinary Medicine*, *Food Policy*, *European Review of Agricultural Economics*, *Science*.

AAEA Trust Committee, 2020-

AAEA Outreach Committee, 2013-2015

AAEA Master’s Thesis Award Committee, 2007-2009

Reviewer of Selected Papers AAEA Annual Meeting 2002, 2003, 2010, 2011, 2012, 2014

Moderator for American Agricultural Economics Meeting Selected Papers Session 2000, 2003

Discussant for American Agricultural Economics Meeting Selected Papers 1998, 2000

Discussant US/Canada Dairy Trade Symposium, October 1999

Selected University, College, and Department Service

Member MSU Dairy Extension Team, 1997-2019
MSU Farm Management Extension Team, 1997-2019 Chair 2008-10
Department Advisory Committee: 2002-04, 2009, 2011-13, 2018-2019, Chair 2012-13
Chair, Agriculture and Food Policy Faculty Search Committee, 2018
Member, Farm Management Extension Educator Search Committee, 2018
Chair, Production/Farm Management Economist Faculty Search Committee, 2016
Member, Farm Management Educators Search Committee, 2016
Member, Department Chair Search Committee, 2015
Member, E.R. Smith Chair of Ag Policy Faculty Search Committee, 2014
Chair, International Development Economics Faculty Search Committee, 2013
Leader, MSUE Agribusiness Management Work Group, 2010-12
Chair, Agricultural Marketing Economist Faculty Search Committee, 2012
Author and Procter, Michigan FFA State Farm Management Contest, 2000-2016
Chair, Livestock Marketing Economist Faculty Search Committee, 2008
Chair, Livestock Economist Faculty Search Committee, 2005
College Representative, University Committee on Faculty Affairs, 2001-03
Advisor, Michigan State University Rodeo Club, 1999-2003
Dairy Science Management Faculty Search Committee, 1999