

THOMAS L. MARSH

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EDUCATION

Ph.D., Agricultural Economics, Washington State University, 1998.

M.S., Statistics, Washington State University, 1998.

M.S., Economics, Montana State University, 1991.

M.S., Mathematics, Montana State University, 1987.

B.A., Mathematics, Carroll College, 1985.

PROFESSIONAL EXPERIENCE

Professor, School of Economic Sciences (2009-), Washington State Univ.

Affiliated Faculty Member, WSU School for Global Animal Health and Dept. of Statistics

Director, WSU IMPACT Center (2009-)

Associate Professor, School of Economic Sciences, Washington State Univ., (2004-9)

Assistant/Associate Professor, Agricultural Economics, Kansas State Univ., (1998-2004)

Research Economist, Pacific Northwest Laboratory, Richland, WA, (1991-1998)

PROFESSIONAL AFFILIATIONS AND LEADERSHIP

American Agricultural Economics Association (AAEA):

Econometrics Section, President (2011), Secretary (2007-9)

Australian Agricultural and Resource Economics Society (AARES):

North American Branch, President (2006-2008)

Secretary/Treasurer (2004-2006)

Western Agricultural Economics Association (WAEA):

President Elect (2013)

Director (2002-2004), Executive Council (2001-2004)

American Association for the Advancement of Science (AAAS)

EDITORIAL RESPONSIBILITIES

Associate Editor, *American Journal of Agricultural Economics*, (2008-2011)

Editorial Council, *Journal of Agricultural and Resource Economics*, (2007-2009)

HONORS AND AWARDS

Team Member, Team Award for *Partnership Award for Innovative Programs and Projects* USDA, National Institute of Food and Agriculture (2013)

Visiting Scholar, Agricultural & Resource Economics, North Carolina State Univ., 2012.

Washington State Academy of Sciences (elected member 2011)

Visiting Scholar, Federal Reserve Bank of St. Louis (2007)

Visiting Specialist Program, Department of Agriculture, Australia (2005-2006).
Food Marketing Fellow, IMPACT Center, Washington State University, 2004-2009.
Young Professionals Award, Australian Agricultural and Resource Economics Society
and American Agricultural Economics Association (2002-2003)
President's Faculty Development Award, Kansas State University (Fall 2002)
Teaching Excellence Honoree, College of Agriculture, Kansas State University (2002-03)
Early Career Award, Gamma Sigma Delta, Kansas State University (2001-2002)
Teaching Excellence Honoree, College of Agriculture, Kansas State University (2001-02)
President's Faculty Development Award, Kansas State University (Fall 2000)
Award for Academic Excellence, Outstanding Dissertation (H.M.), American Agricultural
Economics Association (1999)

TEACHING

ECONS 511, Ph.D., Econometrics I, Washington State Univ. (2006-2012)
ECONS 452, Advanced Business Management Economics, WSU. (2008-2013)
ECONS 513/4, Ph.D., Advanced Econometrics, WSU. (2004-2008, 2010, 213-)
ECONS 352, Business Management Economics, Washington State Univ. (2006-2008)
AGEC 360, Agribusiness, Washington State Univ. (2004-2006)
AGEC 936, Ph.D., Topics in Quantitative Methods, Kansas State Univ. (2000-2004)
AGEC 905, Ph.D., Agricultural Demand & Commodity Markets, K-State (1999-2004)
AGEC 610, Resource Economics and Policy, K-State (1999-2004)

PAPERS, REFEREED—PUBLISHED (^a after name denotes collaborations initiated
with students during their graduate programs)

Agricultural and Resource Economics

Gabrielyan, G., J. McCluskey, **T. L. Marsh**, and C. Ross. 2014. "Willingness to Pay for
Sensory Attributes in Beer," in press *Agricultural and Resource Economics Review*.

Belasco, E., Galinato, S., **Marsh, T.**, Miles, C., Wallace, R., Wszelaki, A., and Inglis, D. 2013.
High Tunnels Are My Crop Insurance: An Assessment of Risk Management Tools for Small-
Scale Specialty Crop Producers," *Agricultural and Resource Economics Review*, 42/2 (August
2013) 403–418.

McCullough, M. ^a, **Marsh, T.L.**, and Huffaker, R.G. 2012. "Endogenously Determined Cycles:
Evidence from Livestock Industries." *Nonlinear Dynamics, Psychology, and Life Sciences*, 16:
205-231.

Marsh, T.L. and K. Gallardo. 2009. "Adopting Biological Control for Ornamental
Crops in Greenhouses," *CAB Reviews: Perspectives in Agriculture, Veterinary Science,
Nutrition and Natural Resources*, 4, No. 022, pp:1-9.

Jones, R., K. Dhuyvetter, and **T. L. Marsh**, and T. Turner^a. “Estimating the Economic Value of Specific Characteristics Associated with Angus Bulls at Auction.” *Journal of Agriculture and Applied Economics* 40, 1(April 2008):315-333.

Flaming, S.^a, **T.L. Marsh**, and T. Wahl. “Farm-Level Price Formation for Fresh Sweet Cherries.” *Journal of Food Distribution and Research* 38(2) (July 2007):39-49.

Garrett, T. A., **T. L. Marsh**, and M.I. Marshall. 2006. “Political Allocation of Agriculture Disaster Payments in the 1990s.” *International Review of Law and Economics*, 26(2), (June 2006): 143-161 (lead article).

Taylor, M. R., K. C. Dhuyvetter, **T. L. Kastens**, M. Douthit^a, and **T. L. Marsh**. 2006. “Show Quality Quarter Horse Auctions: Price Determinants and Buy-Back Practices.” *Journal of Agricultural and Resource Economics*. Vol. 31, No. 3 (December 2006): 595-615.

Boland, M. A., and **T. L. Marsh**. 2006. “Vertical Integration and Input Quality in the Sugar Beet Industry.” *Journal of Agricultural and Resource Economics*, Vol. 31, No. 1 (April 2006):114-128.

Schumacher, S. K.^a and **T. L. Marsh**. 2003. “Economies of Scale in the Floriculture Industry.” *Journal of Agricultural and Applied Economics*, 35 (December):497-507.

J. M. Peterson, **T. L. Marsh**, and J. R. Williams. “Conserving the Ogallala Aquifer: Efficiency, Equity, and Moral Motives” *Choices* (February 2003).

Tozer, P. R., D. L. Scollard, **T. L. Marsh**, and T. J. Marsh. 2002. "Predicting calving ease peripartum" *Canadian Journal of Animal Science*, 82 (March):19-7.

Lusk, J. L.^a, **T. L. Marsh**, and T. C. Schroeder. “The Supply and Demand for USDA Quality Graded Boxed Beef.” *Journal of Agriculture and Resource Economics*, 26, (Jul 2001):91-106.

Ulibarri, C.A. and **T.L. Marsh**. 1994. "Tax Revenue and Innovations in Natural Gas Supply: New Mexico." *The Natural Resources Tax Review*, Vol. 8, No. 4, April 1995.

Demand and Food Analysis

McCullough, M.^a, **Marsh, T.L.**, and Huffaker, R.G. 2013. “Reconstructing Market Reactions to Consumption Harms.” *Applied Economics Letters*, Volume 20, Issue 2, February 2013, pages 173-179.

McCullough, M.^a, T.G. Smith, and **T.L. Marsh**. 2012. “Intertemporal Dependence in Alcohol Consumption Data: Evidence of Rational Addiction?” *Enometrica*, Volume 5, number 1, March 2012.

Piggott, N., and **Marsh, T.L.** (2011). "Chapter 1. Constrained Utility Maximization and Demand System Estimation." *The Oxford Handbook of the Economics of Food Consumption and Policy*, Oxford University Press.

Coffey, B. K.^a, T. C. Schroeder, and **T. L. Marsh**. 2011. "Disaggregated Household Meat Demand with Censored Data." *Applied Economics*, 43, 2343-2363.

Fanning, J.^a, **T. L. Marsh**, and K. Stiegert. 2010. "Determinants of U.S. Fast Food Consumption 1994-98," *British Food Journal* 112, pp: 5-20.

Tonsor, G.^a and **T.L. Marsh**. "Comparing Heterogeneous Consumption in U.S. and Japanese Meat and Fish Demand." *Agricultural Economics* 37 (2007) 81-91.

Ogunyinka, E.O.^a, and **T. L. Marsh**. 2006. "Nigerian Demand for Meat," *Journal of International Food & Agribusiness Marketing*, Volume 18, (1/2) 125-149.

Marsh, T. L. 2005. "Economic Substitution for U.S. Wheat Food Use by Class." *Australian Journal of Agricultural and Resource Economics*, 49: 283-301.

Piggott, N. E. and **T.L. Marsh**. 2004. "Does Food Safety Information Impact US Meat Demand?" *American Journal of Agricultural Economics*, 86 (February):154-174.

Marsh, T.L., T. C. Schroeder, and J. Mintert. 2004. "Impacts of Meat Product Recalls on Consumer Demand in the USA," *Applied Economics*, 36, 897-909.

Anderson, D.M., **T.L. Marsh**, and D.E. Deonigi. 1996. "Developing Historical Food Production and Consumption Data for ¹³¹I Dose Estimates: The Hanford Experience." *Health Physics Journal*, October.

Economics of Invasive Species, Pests, and Diseases

Pendell, D. L., Lusk, J.L., T. L. Marsh, K. H. Coble, and S. C. Szmania. 2014. "Economic Assessment of Zoonotic Diseases: An Illustrative Study of Rift Valley Fever in the United States," Forthcoming *Transboundary and Emerging Diseases*.

Tozer, P., and **Marsh T.L.**, 2012. "Domestic and Trade Impacts of Foot and Mouth Disease on the Australian Beef Industry." *Australian Journal of Agricultural and Resource Economics*, 56:1-19.

Nogueira, L., **T. L. Marsh**, P.R. Tozer and D. Peel. 2011. "Foot-and-Mouth Disease and the Mexican Cattle Industry." *Agricultural Economics*, 42 (33-44).

Zhao, Z.^a, T. Wahl, and **T.L. Marsh**. 2007. "Economic Effects of Mitigating Apple Maggot Spread." *Canadian Journal of Agricultural Economics* 55, (December 2007): 501-16.

Perry, B.^a, **T. L. Marsh**, R. Jones, M.W. Sanderson, J.M. Sargeant, D.D. Griffin, and R.A. Smith. 2007. "Joint Product Management Strategies on E. Coli O157 and Feedlot Profits," *Food Policy* 32(2007):544-565.

Zhao, Z.^a, T. Wahl, and **T.L. Marsh**. 2006. "Invasive Species Management: Foot-and-Mouth Disease in the U.S. Beef Industry." *Agricultural and Resource Economics Review*, 35 (April):98-115.

Schumacher, S. K.^a, **T. L. Marsh**, and K. A. Williams. 2006. "Optimal Pest Control in Greenhouse Production of Ornamental Crops." *Agricultural Economics*, 34(2006) 39-50.

Marsh, T.L., R. G. Huffaker, and G. E. Long. "Optimal Control of Vector-Virus-Plant Interactions: The Case of PLRV Net Necrosis." *American Journal of Agricultural Economics*, 2000 (August).

Marsh, T.L., R. G. Huffaker, R. C. Mittelhammer, R. J. Folwell, G. E. Long, D. R. Horton, and H. H. Toba. "Potato Leaf Roll Virus Expressed as Net Necrosis in Potato Tubers: Identifying Tradeoffs Among Time of Inoculation, Storage Length, and Tuber Weight." *Journal of Economic Entomology*, 91(August 1998): 923-932.

Roosen, J., R. G. Huffaker, R. J. Folwell, **T. L. Marsh** and R. C. Mittelhammer. "The Relation of Potato Leafroll Virus Net Necrosis in Potato Tubers to the Interval Between Planting and Inoculation." *Crop Prot.* 16 (1997): 533-539.

Econometric and Quantitative Analysis

Marsh, T.L., R. C. Mittelhammer, and N. S. Cardell. 2014. "Generalized Maximum Entropy Analysis of the Linear Simultaneous Equations Model." In press *Entropy*, Special Issue: Maximum Entropy and Its Application.

McCullough, M. ^a, **Marsh, T.L.**, and Mittelhammer, R. C. 2014. "Reconstructing Nonlinear Structure in Regression Residuals," *Journal of Applied Statistics*, 41 (2):332-350. Presented at the 2008 North American Meetings of the Econometrics Society.

Mittelhammer, R.C., N. S. Cardell, and **T.L. Marsh**. 2013. "The Data-Constrained Generalized Maximum Entropy Estimator of the GLM: Asymptotic Theory and Inference," *Entropy* 15, 1756-1775.

Srinivasa, S.P. ^a, **T. L. Marsh**, and M. Brady. 2012. "Spatial Price Analysis of Used Construction Equipment: The Case of Excavators," *Construction Management and Economics*, 30, 981-994.

Perevodchikov, E. V., **T. L. Marsh**, and R.C. Mittelhammer. 2012. “Information Theory Estimators for the First-Order Spatial Autoregressive Model,” *Entropy* 14, 1165-1185; doi:10.3390/e14071165.

Marshall, M.I. and **T.L. Marsh**. “Consumer and Investment Demand for Manufactured Housing Units,” *Journal of Housing Economics* 16(2007):59-71.

Marsh, T.L. and R.C. Mittelhammer. 2004. “Generalized Maximum Entropy Estimation of a First Order Spatial Autoregressive Model,” *Advances in Econometrics, Spatial and Spatiotemporal Econometrics*, Volume 18, eds. Pace and LeSage (peer reviewed).

Garrett, T. A. and **T. L. Marsh**. “The Revenue Impacts of Cross-Border Lottery Shopping in the Presence of Spatial Autocorrelation.” *Regional Science and Urban Economics*, vol. 32, no. 4 (July 2002): 501-19.

Lusk, J. L.^a, A. M. Featherstone, **T. L. Marsh** and A. O. Abdulkadri^a. 2002. “Empirical Properties of Duality Theory.” *Australian Journal of Agricultural and Resource Economics* 46:(March)45-68.

Marsh, T. L., R. C. Mittelhammer, and R. G. Huffaker. “Probit with Spatial Correlation by Plot: PLRV Net Necrosis.” *Journal of Agricultural, Biological, and Environmental Statistics*, 5(2000): 22-36.

Trade

Dong, F.^a, **T. L. Marsh**, and K. Stiegert. “State Trading Enterprises in a Differentiated Environment: The Case of Global Malting Barley Markets.” *American Journal of Agricultural Economics*, 88(1), (February 2006):90-103.

Stiegert, K, A. A. Ardalan^a, **T.L. Marsh**. 2006. “Modal Foreign Direct Investment in the European Union.” *Journal of Food Distribution and Research* 37(3):44-55.

Marshall, M.I.^a and **T.L. Marsh**. 2006. “Endogenous Trade Protection in the Mexican Corn Market.” *Journal of International Agricultural Trade and Development*, Volume 2 (2) 221-240.

BOOK, CHAPTER PUBLICATIONS, AND EDUCATIONAL SOFTWARE

C. Miles, and **T. Marsh**. 2012. “Chapter 3.12 Biodegradable plastic mulches, China, India and USA,” In *Profit from Storage: The costs and benefits of water buffering*, edited by Lenneke Knoop and Linda Navis.

Marsh, T.L. (contributing author, subject matter expert) “Chapter 7. Economic Assessment,” *Updated Site-Specific Biosafety and Biosecurity Mitigation Risk*

Assessment: National Bio and Agro-Defense Facility, Department of Homeland Security (Final Report, February 2012). (Congressionally mandated report)

C. Miles, D. Hayes, M. Brodhagen, J. Lee, A. Wszelaki, J. Moore-Kucera, R. Wallace, **T. Marsh**, and D. Inglis. 2011. "Chapter 3.12 Plastic Mulches, Biodegradable Alternatives: China and US," In *Transforming Landscapes, Transforming Lives: The Business of Sustainable Water Buffer Management*, edited by Steenbergen, F. van, Tuinhof A., and L. Knoop.

Marsh, T.L. (contributing author, subject matter expert) "Chapter 5. Economic Assessment," *Site-Specific Biosafety and Biosecurity Mitigation Risk Assessment: National Bio and Agro-Defense Facility*, Department of Homeland Security (Final Report, October 2010). (Congressionally mandated report)

Marsh, T.L. (contributing author, subject matter expert) "Appendix C: Qualitative Risk/Hazard Assessment" *Site-Specific Biosafety and Biosecurity Mitigation Risk Assessment: National Bio and Agro-Defense Facility*, Department of Homeland Security (Appendices to Final Report, June 2010). (Congressionally mandated report)

McClaskey, J., J. Fox, **T.L. Marsh** (supporting author), O. Doering, K. Foster, A. Nutsch, and J. Kastner. 2004. "Chapter 9: Economic and Cost Considerations," In *Carcass Disposal: A Comprehensive Review*, USDA-APHIS and National Agricultural Biosecurity Center Consortium.

Marsh, T.L. "Chapter 6.6: Comprehensive Computer Application," in *Econometric Foundations* by R.C. Mittelhammer, G. G. Judge, and D. J. Miller. Cambridge University: New York, 2000.

Marsh, T.L., J.L. Krogmeier, and R.C. Mittelhammer. 1997. *Mathematical Statistics for Economics and Business: Solution Manual*. Springer-Verlag, New York.

Belzer, D.B., **T.L. Marsh**, and R.D. Sands. 1994. "Analysis of U.S. Commercial Energy Use Trends, 1972-1991." In *Building Tomorrow: The Path to Energy Efficiency*, Vol. 7, American Council for an Energy Efficient Economy, Washington, DC.

BOOK REVIEWS—PUBLISHED

Marsh, T. L. 2004. Review of "Battling Resistance to Antibiotics and Pesticides: An Economic Approach" in the *Journal of Environmental Quality* (November-December).

Marsh, T. L. 2004. Review of "The Economics of Conserving Wildlife and Natural Areas" in the *Wildlife Society Bulletin*.

REPORTS

Marsh, T.L. (co-chair, contributing author). "White paper on Washington State Initiative 522 (I-522): Labeling of Foods Containing Genetically Modified Ingredients," Washington State Academy of Sciences, October 2013. (WA Legislative Request)

Jiang, X.^a and T.L. Marsh. "Evaluation of the Effectiveness of Pear Advertising and Promotion," Report to the Fresh Pear Committee, Pear Bureau Northwest (October 2013).

Tozer, P. R., J. Sage, and **T.L. Marsh**. 2013. "Trends in Agricultural Production, Exports, and Transportation in Washington State," IMPACT Center Washington State University.

T.L. Marsh and J. Yoder. 2013. "Economic Assessment of ECF Vaccination on Kenyan Pastoral Households," Final Report, GALVmed.

Marsh, T.L. (supporting author). Washington State University and the Washington State Department of Ecology. January 2012. Columbia River Basin 2011 Long Term Water Supply and Demand Forecast. Legislative Report.
<http://www.ecy.wa.gov/programs/wr/cwp/forecast/forecast.html>.

Young, D.L. Galinato S.P, and **Marsh, T.L.** 2012. "Feasibility of Camelina as a Biofuels Feedstock in Washington," WSU IMPACT report, Washington State University, Pullman.(Policy response to Senator Cantwell's request).

Peterson, J. M., C. M. Smith, J. C. Leatherman, K. R. Mankin, **T. L. Marsh**, J. A. Fox, M. Lee, and M. Henry. 2009. "Integrating Economic and Biophysical Models to Assess the Impacts of Water Quality Trading," EPA Final Technical Report.

Zhang, C.^a, **T.L. Marsh**, and R.T. Schotzko. "Evaluation of the Effectiveness of Pear Advertising and Promotion," Final Report to the Fresh Pear Committee, Pear Bureau Northwest (October 11, 2007).

Schroeder, T.C., **T.L. Marsh**, and J. Mintert. 2000. "Beef Demand Determinants." Report prepared for the National Cattlemen's Beef Association (January).

Kavanaugh, D.C., D.M. Anderson, **T.L. Marsh**, and A.D. Lee. 1994. "Key Elements Affecting Manufactured Home Investments in Energy-Efficiency: An Empirical Analysis." DOE/BP-2335, Pacific Northwest Laboratory, Richland, WA.

Anderson, D.M., D.J. Bates, and **T.L. Marsh**. 1993. "Estimation of 1945, 1951, and 1957 Food Consumption for Use in the Hanford Environmental Dose Reconstruction Project." PNWd-2113 HEDR, Pacific Northwest Laboratory, Richland, WA.

Belzer, D.B., C.E. Wrench, and **T.L. Marsh**. 1993. "End Use Energy Estimates for U.S. Commercial Buildings." PNL-8946, Pacific Northwest Laboratory, Richland, WA.

Marsh, T.L., D.M. Anderson, W.T. Farris, T.A. Ikenberry, B.A. Napier, and G.L. Wilfert. 1992. "Commercial Production and Distribution of Fresh Fruits and Vegetables: A Scoping Study on the Importance of Produce Pathways to Dose." PNWD-2022 HEDR, PNL, Richland, WA.

SELECTED PUBLICATIONS IN PROGRESS

Perevodchikov, E.V.^a, P. R. Tozer, and **T.L. Marsh**. 2013. "Welfare Impacts of Foot-and-Mouth Disease in the Canadian Cattle Sector," Under revision.

Pendell, D. L., **T. L. Marsh**, K. H. Coble, J.L. Lusk, and S. C. Szmania. " Economic Assessment of Animal Disease Releases: The National Bio and Agro Defense Facility," submitted.

Steele, J., Perevodchikov, E.V.^a, and **T.L. Marsh**. 2011. "Transboundary Diseases: Preventative Investments and International Transfers." Working paper, Washington State University.

Nogueira, L.^a and **Marsh, T.L.** 2013. "Welfare Implications of Washington Wheat Breeding Programs." Under revision.

Zhang, R.^a, J. Steele, and **T.L. Marsh**. 2013. "Backyard Farming and Optimal Government Intervention of Avian Influenza." submitted.

Zhang, H.^a, **Marsh, T.L.**, and J. McCluskey. 2010. "An Event Analysis of the 2006 E. coli Outbreak in Spinach and Lettuce." under revision.

Zhang, R.^a, **T.L. Marsh**. and D. Gent. 2013. "Production Risk and Maximum Residue Limits: A Case Study of Hops Production" submitted.

RESEARCH GRANT AWARDS

"Economic Assessment of Pest and Disease Outbreaks in Tree Fruit," **T. L. Marsh** (principal investigator). USDA-APHIS. From 10/1/2013 to 9/31/2014. Total Funds: \$45,000.

"Evaluation of the Effectiveness of Advertising and Promotion for the Processed Pear Commission." **Marsh, T.L.** (principle investigator), Tozer, Peter. Funding \$30,000 from 2013 to 2014.

“Agronomic, Biochemical, Social, and Economic Impacts of Biotic and Abiotic Stress on Pacific Northwest Flavor Crops,” **T.L. Marsh**, co-investigator (Doug Walsh project leader). From 10/1/2012 to 9/30/2014. USDA-SCRI. Funding \$1,800,000.

“Evaluation of the Effectiveness of Pear Advertising and Promotion.” **Marsh, T.L.** (principle investigator), Mittelhammer, R.C. Funding \$43,000 from 6/1/2012 to 5/31/2013.

“Economic Assessment of Pest and Disease Outbreaks in Tree Fruit,” **T. L. Marsh** (principal investigator). USDA-APHIS. From 10/1/2011 to 9/31/2012. Total Funds: \$50,000.

“Bio-Battery Proposal,” Katie Zhong, Hanwu Lei, Louis Scudiero, **T. L. Marsh** (co-investigator). WSU. From 2011 to 2013. Total Funds: \$100,000.

“Impact on ECF Vaccination,” J. LaFrance, **T.L. Marsh** (co-investigator), G. Palmer, T. McElwain, J. Yoder. Global Alliance for Livestock Veterinary Medicines. From 1/1/2011 to 12/31/2011. Total Funds: \$206,281.

“Export Assistance Program,” **T.L. Marsh** (collaborator) and Andrew Cassey. WA Community Economic Revitalization Board. From 1/1/2011 to 12/31/2013. Total Funds: \$160,000.

“IPM Adoption: Motivations, Barriers, and Subjective Risk Assessments in Contract Agriculture,” Project Directors: Drs. D. B. Walsh; **T.L. Marsh** (co-investigator), and J. Sherman, Washington State University; and D. H. Gent, NIFA-USDA, Corvallis, Oregon. Total Funds: \$179,168

“Enhancing Competitiveness of Agricultural Products,” **T.L. Marsh** (principle investigator), From 10/1/2010 to 9/31/2012. USDA-CSREES. Funding \$252,000.

“Biodegradable Mulches for Specialty Crops Produced under Protective,” **T.L. Marsh**, co-project director (Debra Inglis project leader). From 10/1/2009 to 9/30/2012. USDA-SCRI. Funding \$2,000,000.

“Agronomic, Biochemical, Social, and Economic Impacts of Biotic and Abiotic Stress on Pacific Northwest Flavor Crops,” **T.L. Marsh**, co-investigator (Doug Walsh project leader). From 10/1/2009 to 9/30/2012. USDA-SCRI. Funding \$3,000,000.

“Enhancing Competitiveness of Agricultural Products,” **T.L. Marsh** (principle investigator), From 10/1/2009 to 9/31/2011. USDA-CSREES. Funding \$252,000.

“Columbia River Basin Water Supply Investment Plan: A strategy to develop water supply to meet water demand needs through 2030,” Co-investigator, **T.L. Marsh** (Jennifer Adam project leader). From 09/01/2009 to 10/31/2011. Washington State Department of Ecology. Funding \$748,372.

“Invasive Species Policies and Trade Effects,” **T.L. Marsh** (principle investigator) and J. Steele. WSU, IMPACT 2008-2010. Funding \$30,000.

“Impacts of Organophosphate Pesticides Phaseout in the Apple Industry,” **T.L. Marsh** (principle investigator), D. Holland, S. Galinato, A. Cassey, and J. Brunner. WSU, IMPACT 2008-2010. Funding \$40,000.

WSU, ARC Graduate Research Assistantship Enhancement Program, (2007-2009). **Marsh, T.L.**, Funding \$22,000.

“Welfare Impacts of Invasive Species on Livestock Trade,” **T.L. Marsh** (principle investigator), T. Wahl (co-investigator), and P. Tozer (Collaborator). USDA-PREISM Competitive Grant, Funding \$119,000 for 2006-2008.

“Pear Bureau Northwest Research: Evaluation of the Effectiveness of Pear Advertising and Promotion.” **Marsh, T.L.** (principle investigator), Schotzko, R.T., Mittelhammer, R.C. Funding \$37,000 for 2006.

“Specialty Crops Policy Options and Consequences: Implications for the PNW.” **Marsh, T.L.** (participant); Schotzko, R.T. (participant); Wieck, C. (participant); Wahl, T.I. (leader); Chouinard, H.H. (participant). Funding \$99,935 for 2005-2006.

"The Effects of Reducing Sanitary and Phytosanitary Barriers to Trade on the Washington State Apple Industry." Chouinard, H.H. (leader); **Marsh, T.L.** (participant); Wieck, C. (participant). WSU IMPACT Competitive Grant. Funding \$29,966 for 2005-2006.

"Development of rapid method to estimate Escherichia coli in foods Kang, D. (leader); Powers, J.R. (co-leader); **Marsh, T.L.** (co-leader). WSU IMPACT Competitive Grant. Funding \$30,000 for 2005-2006.

Integrating Economic and Biophysical Models to Assess the Impacts of Water Quality Trading. Jeff Peterson, John Leatherman, **Thomas Marsh** (co-investigator), Kyle Mankin, and Sean Fox. US-EPA Competitive Grant. Funding \$376,165.

Pollution Trading. Jeff Peterson, John Leatherman, **Thomas Marsh** (co-investigator), and Kyle Mankin. Kansas Department of Health and Environment, EPA 319 Fund, July 1, 2004 – June 30, 2005, \$142,850.

Caviar Quality and Processing Workshops and technical Assistance. Morgan Irwin and **Tom Marsh** (Faculty Advisor). CAHNRS-Undergraduate Research and Creative Projects. Funding \$1000.

BSE in the U.S.: Economic Effects of Alternative Strategies. James Mintert, Ted Schroder, **Tom Marsh** (co-investigator), and John Fox. Effective dates 6/04-12/04. Kansas Dept of Agriculture *Funding* \$55,000.

Rational Addiction and Food Consumption. Principle investigators are **Tom Marsh** and Kyle Stiegert. Effective dates 10/01/04-09/31/05. Food Systems Research Group, University of Wisconsin *Funding* \$28,000.

Cascass Disposal: Economic Costs and Considerations. John A. Fox, **Thomas Marsh**, and Jackie McClaskey. Kansas State University National Ag Biosecurity Center and USDA. \$43,940. 1/1/2003 – 12/31/2003.

Welfare Estimates under Product Differentiation: The Benefits of Table Grape Promotion on Grape Varieties. Principle investigators are John Crespi and **Tom Marsh**. Effective dates 10/02/02-9/30/03. USDA-NICPRE funding level \$14,000.

Transfer of spider mite management on ivy geranium to multiple bedding plants. Principal Investigators are Kimberly A. Williams, James R. Nechols, David C. Margolies, Terry Kastens, and **Tom Marsh**. Effective dates are 10/02/02-9/30/05. *USDA-PMAP*, funding level \$165,000.

Determinants of Fast Food Consumption. Principle investigators are **Tom Marsh** and Kyle Stiegert. Effective dates are 03/01/02-12/31/02. Food Systems Research Group, University of Wisconsin. Funding level \$17,000.

A Proposal to Meet National Needs for Scholars Trained in Economics of Food Safety and Quality. Principle investigators are Ted Schroeder and **Tom Marsh**. Effective dates 10/02/02-9/30/05. *USDA National Needs*, funding level \$138,000.

The Potential to Increase U.S. Demand for Wheat: Emerging Domestic Market. Principle investigators are Andrew Barkley, Michael Boland, **Tom Marsh**, Kyle Stiegert. Effective dates are 08/01/01-07/31/02. Kansas Wheat Commission. Funding level \$24,000.

Bioeconomic Assessment of Biologically Based Pest Management on Ivy Geranium. Principle investigators are Kimberly A. Williams, James R. Nechols, David C. Margolies, **Tom Marsh**, and Terry Kastens. *NRI-CGP*. Effective dates are 08/01/00-07/31/03. Funding level \$190,000.

Bioeconomic Assessment of Biologically Based Mite Management on Ivy Geranium. Principal Investigators are Kimberly A. Williams, James R. Nechols, David C. Margolies, Terry Kastens,

and **Tom Marsh**. *NCR-IPM Biological Based Pest Management*. Effective dates are 08/01/99-07/31/01. Funding level \$95,000.

INVITED PRESENTATIONS AND SYMPOSIUMS

Marsh T.L. “Economics of Livestock Vaccinations on Pastoral Households: ECF in Kenya,” University of London, January, 2013.

Marsh T.L. “Generalized Event Analysis of the 2006 E. Coli Outbreak in Spinach and Lettuce,” North Carolina State University, November 27, 2012.

Marsh T.L. and Dustin Pendell. “Site-Specific Biosafety and Biosecurity Risk Assessment for the National Bio and Agro-Defense Facility (NBAF),” Symposium, Western Agricultural Economics Association, Park City Utah, June 2012.

Marsh, T.L. 2012. “What are the Economic Consequences of Livestock Diseases?” Kansas State University, Manhattan, KS, March 15, 2012.

Marsh, T.L. 2011. “Markets, Infrastructure, and Animal Production Systems,” Joint Plenary Session for the United States Animal Health Association/American Association of Veterinary Laboratory Diagnosticians, Buffalo New York, Oct 2011.

Marsh, T.L. and Piggott, N. 2010 . “Specification and Estimation of Food and Alcoholic Beverages Demand”, Invited paper on Food Demand and Econometrics Symposium, Australian Agricultural and Resource Economics Society Meetings, Adelaide, Southern Australia.

Marsh, T.L. “Economic Impacts of FMD on North America and Australia.” Invasive Species Management: 2009 PREISM Workshop, Washington D.C.

Irwin, M. ^a and **T. L. Marsh**. “U.S. Caviar Trends and Issues,” FAMPS Symposium, American Agricultural Economics Association, Orlando, July 2008.

Marsh, T.L., “Measuring Pre-Committed Quantities through Consumer Price Formation,” Invited Seminar, UC-Davis, December 5, 2007.

Marsh, T.L., Perevodchikov, E. ^a, Tozer, P., and Wahl T. “Impacts of Invasive Species on International Livestock Trade.” Invasive Species Management: 2007 PREISM Workshop.

Zhao, Z. ^a, Wahl T. and **Marsh, T.L.** “Economic Effects of Mitigating Apple Maggot Spread.” Invasive Species Management: 2007 PREISM Workshop.

Marsh, T.L., & Wahl, T.I. (2006, October). Welfare Impacts of Invasive Species on Livestock Trade. PREISM Organizational Meeting, Washington, DC.

Zhao, Z.^a, T.I. Wahl, and **T.L. Marsh**. (2006, October) “Economic Effects of Mitigating Apple Maggot Spread.” Crisis in Agriculture and Resource Sectors Workshop: Analysis of Policy Response, Calgary, Alberta.

Marsh, T. L., “Hedonic Analysis of Veterinarian Income,” Invited seminar Washington State University/University of Idaho Joint Statistics and Applied Probabilities Seminar, October 31, 2006.

Marsh, T. L. and P. R. Tozer, “Invasive Species Management in the Australian Beef Sector,” Invited Presentation, Ministry of Agriculture & Forestry, Wellington, New Zealand, June, 2006.

Marsh, T. L. and P. R. Tozer, “Invasive Species Management in the Livestock Sector,” Invited Presentation, Department of Agriculture, Western Australia, Geraldton, May, 2006.

Marsh, T. L. and C. Zhang^a, “Economic Responsiveness in US Wheat Markets,” Invited Presentation, Australian Innovation Festival, The University of Western Australia, Perth, WA, May 5, 2006.

Marsh, T. L. “Food Safety Impacts on US Meat Demand,” Invited presentation, Department of Agricultural Economics, Washington State University, 2004.

Marsh, T. L. “Economics and Agricultural Terrorism,” Invited presentation, Agricultural Terrorism Conference, Wichita State University, June 2004.

Marsh, T. L. “Economic Impacts of a FMD Outbreak,” Invited presentation, Exercise Planning Workshop, State Department of Defense, Topeka, Kansas, April 2004.

Piggott, N. and **T.L. Marsh**. 2003. “Does Food Safety Impact US Meat Demand?”, Invited paper on Marketing and Food Safety, Australian Agricultural and Resource Economics Society Meetings, Perth, Western Australia.

Marsh, T.L. and R.C. Mittelhammer. “Generalized Maximum Entropy Estimation of Spatial Autoregressive Models,” Conference on *Advances in Econometrics, Spatial and Spatiotemporal Econometrics*, Louisiana State University, November 7, 2003.

Marsh, T. L. 2003. Invited discussant, The Role of GMOs in Trade Disputes, San Antonio TX, October 2003.

Marsh, T. L. 2001. "Adaptive Truncated Regression Applied to Maximum Entropy." Invited Seminar, Department of Agricultural Economics, Washington State University, Pullman.

Marsh, T. L. “Maximum Entropy and Finite Sample Estimation,” Invited Seminar, Nov. 2000, Department of Agricultural Economics, Kansas State University, Manhattan.

Marsh, T.L. 1999. “Optimal Control of Vector-Virus-Plant Interactions.” Invited Seminar, Department of Entomology, Kansas State University.

Marsh, T.L. 1997. "Optimal Control of Vector-Virus-Plant Interactions." Invited Seminar (Job Talk), Department of Agricultural Economics, Kansas State University.

Marsh, T. L. 1997. "Model-Driven Approach to Test and to Correct Cross-Sectional Data for Unobserved Spatial Correlation by Region." Invited Seminar, Washington State University and University of Idaho's Seminar on Statistics, Applied Probability, and Applied Statistics.

Marsh, T. L. 1997. "Empirical Evidence Refuting Elastic Demand in the Manufactured Housing Industry." Invited Seminar, Pacific Northwest National Laboratory, Richland, WA.

PEER REVIEWED CONFERENCE PAPERS AND PRESENTATIONS

Thumbi, W., Otiang E., Ochieng L., Ogola E., Munyua, P., **Marsh, T.**, Yoder, J., Noh, S., McElwain T., Njenga, M.K. and Palmer, G. 2013. "Linking Human and Animal Health: A Population Based Animal Syndromic Surveillance Study," ASTMH, Washington, DC.

Gabrielyan, Gnel, Jill J. McCluskey, **Thomas L. Marsh**, and Carolyn Ross. "Willingness to Pay for Hops in Beer," Beverage Markets and Policy, 2013 Northeastern Agricultural and Resource Economics Association (NAREA) Workshop.

Gabrielyan, Gnel, Jill J. McCluskey, **Thomas L. Marsh**, and Carolyn Ross. "Willingness to Pay for Hops in Beer," Beverage Markets and Policy, 2013 Northeastern Agricultural and Resource Economics Association (NAREA) Workshop.

Brady, M. and T.L. Marsh. 2013. Do Changes in Orchard Supply Occur at the Intensive or Extensive Margin of the Landowner? Selected Paper Presentation at the Agricultural & Applied Economics Association's Annual Meeting.

Hamilton, A., Szmania, S., Kadavy, D., Isbell, M., Gardner, M., Cassagrande, R., Kazmierczak, M., Rush, M., Bieberbach, G., Bieringer, P., Coble, K., **Marsh, T.**, Pendell, D., Bryant, F., Splichal, P. and Brewer, J., "Site-specific biosafety and biosecurity risk assessment for the national bio and agro-defense facility," 13th International Symposium on Veterinary Epidemiology and Economics, Belgium, August 2012.

Lembo, T., Auty, H., Fyumagwa, R., Haydon, D., Hoare, R., Kamani, E., Kasanga, C., Kazwala, R., King, D., Knight-Jones, T., Knowles, N., **Marsh, T.**, Mshanga, D., Parekh, K., Parida, S., Paton, D., Reeve, R., Yoder, J. and Cleaveland, S. "Patterns and household implications of foot-and-mouth disease in rural Tanzanian communities," 13th International Symposium on Veterinary Epidemiology and Economics, Belgium, August 2012.

Gabrielyan, G. and **T.L. Marsh**, "Price Formation of U.S. Hops," Selected paper for presentation at the Agricultural & Applied Economics Association's Annual Meeting, Seattle, Washington, August 12-14, 2012.

Gabrielyan, G. and **T.L. Marsh**, “Export Demand Analysis for U.S. Hops” Presentation at the Pacific Northwest Economics Conference, Seattle, Washington, May 16-18, 2012.

Lankester, F., Grant, D., Haig, D., Russell, G., Lugelo, A., Kazwala, R., **Marsh, T.**, Yoder, J., Keyyu, J., Cleaveland, S. 2011. Malignant catarrhal fever: a field-based vaccine trial and an economic impact assessment. Tanzania Wildlife Research Institute Conference, Arusha, TZ. December.

Belasco, E., S. Ponnaluru, S. Galinato, and **T.L. Marsh**. “An Assessment of the Interaction between High Tunnels and Crop Insurance for Specialty Crop Producers,” American Agricultural Economics Association, Pittsburg, 2011.

Tozer, P. R. and **T. L. Marsh**, and E. Perevodchikov^a. 2010. “Invasive Species Management: FMD and BSE in the Australian Beef Sector,” Contributed paper at the Australian Agricultural and Resource Economics Society Meetings, Adelaide, Southern Australia.

Zhang, R.^a, J. Steele, and **T.L. Marsh**. 2010. “Backyard Farming and Optimal Government Intervention of Avian Influenza.” Contributed paper, Western Economic International Meeting, Portland.

McCullough, M.^a, **Marsh, T.L.**, and Smith, T. 2009. “Intertemporal Alcohol Dependency: Like Father, Unlike Son,” Presented at the 2008 Beeronomics Conference, Belgium.

McCullough, M.^a, **Marsh, T.L.**, and Mittelhammer, R. C. “Nonlinear Structure in Regression Residuals,” Presented at the 2008 North American Meetings of the *Econometrics Society*.

Nogueira, L.^a, **Marsh, T.L.**, and Johnson, H. “Welfare Implications of Washington Wheat Breeding Programs,” Selected Paper, Western Agricultural Economics Association Meetings, Big Sky, MT, 2008.

Perevodchikov, E.^a and **T. L. Marsh**. “International Trade and FMD in the Canadian Livestock Sector,” Selected Paper, Western Agricultural Economics Association Meetings, Big Sky, MT, 2008.

Tozer, P. and **T. L. Marsh**. “Invasive Species Management: FMD in the Australian Beef Sector,” Symposium presentation, American Agricultural Economics Association, Orlando, July 2008.

Marsh, T. L. and E. Perevodchikov.^a “Econometrics in Agricultural Economic and Economic PhD Programs,” Symposium presentation, American Agricultural Economics Association, Orlando, July 2008.

McCullough, M.^a, **T. L. Marsh** and Huffaker, R. “Phase Space Reconstruction and Nonlinear Equilibrium Dynamics in the U.S. Beef Market,” Selected paper for the American Agricultural Economics Association, Portland, Oregon, August 2007.

Markosyan, A.^a, Wahl, T., **Marsh T.L.**, and Chouinard, H “Specialty Crop Producer’s Preferences Towards International Trade Policies,” Selected paper for the Western Agricultural Economics Association, Portland, Oregon, August 2007.

Suyambulingam, T.^a and **T. L. Marsh.** “Determinants of BSE Export Bans,” Selected paper for the Western Agricultural Economics Association, Portland, Oregon, August 2007.

Nogueira, L.^a, Chouinard, H.H., **Marsh, T.L.**, Wahl, T.I., & Wieck, C. (2006). The Effects of Reducing Sanitary and Phytosanitary Barriers to Trade on the Washington State Apple Industry. American Agricultural Economic Association Meetings, Long Beach, California.

Zhao, Z.^a, T.I. Wahl, and **T.L. Marsh.** “Modeling the Effects of Mitigating Apple Maggot Spread into Apple Production Region of Washington State,” American Agricultural Economics Association, Long Beach, California, August 2006.

Zhang C.^a, and **T.L. Marsh.** "Impacts of Gluten Imports on U.S. Food Wheat Use". American Agricultural Economics Association, Long Beach, California, August 2006.

T.L. Marsh and N. Piggott. “Consumer Price Formation with Demographic Translating”. International Association of Agricultural Economists, Queensland Australian, August 2006.

Zhao, Z.^a, T.I. Wahl, and **T.L. Marsh.** “Invasive Species Management: Foot-and-Mouth Disease in the U.S. Beef Industry”. International Association of Agricultural Economists, Queensland Australian, August 2006.

Marsh, T. L. and N. Piggott. 2005. “Demographic Translating in Consumer Distance Functions”, Australian Agricultural and Resource Economics Society Meetings, Coffs Harbour, Australia.

Komar, S.^a, **T. L. Marsh**, and T. A., Garrett. 2005. “Political Allocation of Agriculture Disaster Payments by Assistance Program.” Presentation, Western Agricultural Economics Association.

Suyambulingam, T.^a and **Marsh, T.L.** 2005. “Trade Bans and BSE”. International Agricultural Trade Research Consortium, Annual Meeting.

Zhao, Z.^a, T.Wahl, and **T.L. Marsh.** “The Government’s Role in Stabilizing Beef Supply when BSE Strikes”, Presented at World Trade Organization Impacts on U.S. Farm Policy 2005 Conference June 1-3, 2005 New Orleans, Louisiana.

Zhao, Z.^a, T.Wahl, and **T.L. Marsh.** “Modeling the Impacts of Alternative Invasive Species Management Policies on Perennial Fruit Production and Consumption.” Presented at the 2005 Pacific Northwest Regional Economic Conference, May 19-20, 2005 Bellingham, Washington.

Zhao, Z.^a, T.Wahl, and **T.L. Marsh.** “Modeling the Impacts of Alternative Invasive Species Management Policies on Livestock Production with an Implementation of Foot-

and-Mouth Disease in the U.S. Beef Cattle Industry.” Presented at 2005 NAREA Workshop on Invasive Species, June 14-15, 2005 Annapolis, Maryland.

Zhang, C.^a and **T. L. Marsh**. 2005. “Measuring Impacts of Gluten Imports on US Wheat Food Use By Class,” Presentation, Western Agricultural Economics Association.

Brant, M.^a, **T. L. Marsh**, and A. M. Featherstone. 2005. “Multivariate AIM Consumer Demand Model Applied to Dried Fruit, Raisins, and Dried Plums,” Selected Paper, American Agricultural Economics Association, Providence.

Marsh, T.L., Wahl, T., and Suyambulingam, T.^a, 2005. “Animal Disease outbreaks and Trade Bans”. World Trade Organization Impacts on U.S. Farm Policy, Proceedings Southern Regional Trade Research Committee (S1016), World Trade Center, New Orleans.

Fanning, J.^a and **T. L. Marsh**. 2005. Spatial Hedonic Analysis of Veterinarian Income,” Selected Paper, American Agricultural Economics Association, Providence.

Tonsor, G.^a and **T. L. Marsh**. 2005. “Comparing Heterogeneous Consumption in US and Japanese Meat and Fish Demand,” Selected Paper, American Agricultural Economics Association, Providence.

Brant, M.^a, Featherstone, A. M. and **T. L. Marsh**, and. 2005. “AIM Application to Kansas Farm Data,” Selected Paper, Western Agricultural Economics Association.

Chacon-Cascante, A.^a, J. Crespi, and **T. L. Marsh**. 2005. “Import demand of Bananas in the European Union,” Selected Paper, American Agricultural Economics Association, Providence.

Perry, B.^a, **T. L. Marsh**, R. Jones, M.W. Sanderson, J.M. Sargeant, D.D. Griffin, and R.A. Smith. 2004. “Effects of Joint Product Management Strategies on E. Coli 0157:H7 and Feedlot Profits,” Selected Paper, Western Agricultural Economics Association, Hawaii.

Turner, T.^a, K. Dhuyvetter, **T. L. Marsh**, and R. Jones. 2004. “Estimating the Economic Values Associated with EPDS for Angus Bulls at Auction.” Selected Paper, Western Agricultural Economics Association, Hawaii.

Taylor, M. R., K. C. Dhuyvetter, T. L. Kastens, M. Douthit^a, and **T. L. Marsh**. 2004. “Price Determinants of Show Quality Quarter Horses,” Selected Paper, Western Agricultural Economics Association, Hawaii.

Odeh, O.^a and **T. L. Marsh**. 2004. “Price Formation and Food Safety in U.S. Meat Demand: A Semi-flexible Normalized Quadratic Inverse Demand System,” Selected Paper, Southern Agricultural Economics Association, Tulsa.

Marsh, T. L., A. Featherstone, and T. Garrett. 2003. "Input Inefficiency in Commercial Banks: A Normalized Quadratic Input Distance Function," Working Paper 2003-036A, Federal Reserve Board of St. Louis.

Marsh, T. L., J. Fanning^a, and K. Stiegert. 2003. "Bayesian Estimation and Socio-Economic Determinants of Fast Food Consumption." First Biennial Research Conference of the Food Systems Research Group, University of Wisconsin-Madison.

J. Taylor^a and **T. L. Marsh**. 2003. "Valuing Characteristics of Transferable Deer Permits in Kansas." Selected paper, Western Agricultural Economics Association, Denver, Colorado.

Marsh, T. L., and R. C. Mittelhammer. 2002. "Information Theoretic Alternatives to Traditional Simultaneous Equations Estimators in the Presence of Heteroskedasticity." Selected Paper at the AAEA Meeting, Long Beach.

Marsh, T. L., R. C. Mittelhammer, and G. G. Judge. 2001. "Empirical Likelihood Estimators of the Linear Simultaneous System of Equations." Selected Paper at the AAEA Meeting, Chicago.

Marsh, T.L. and R. C. Mittelhammer. "Adaptive Estimation, Truncation, and Maximum Entropy." Selected paper for the 2001 WAEA meeting, Logan, Utah.

Schumacher, S.^a, **T. L. Marsh**, and K. Williams, "Economic Thresholds: An Application to Floriculture," Selected Paper, 2000 AAEA Meetings, Tampa, FL.

Lusk, J. L.^a, A. M. Featherstone, and **T. L. Marsh**. 1999. "The Multi-Product Asymptotically Ideal Model: An Application to Agriculture." Selected Paper at the AAEA Meeting, Nashville.

Marsh, T.L., R. C. Mittelhammer, and N. S. Cardell. 1998. "Structural-Equation GME Estimator." Selected Paper at the AAEA Meeting, Salt Lake City.

Ulibarri, C.A. and **T.L. Marsh**. 1993. "Deadweight Loss from BTU Taxes on Manufacturing Energy Consumption," International Association for Energy Economics, Proceedings of the 15th Annual North American Conference, Seattle, WA.

POSTERS

Jiang, X. and **T.L. Marsh**. 2012. "Farm Level Demand for Fresh and Processed Stone Fruit in the United States," Selected Poster AAEA Meeting, Seattle.

Zhao, Y. and **T.L. Marsh**. 2012. "An Evaluation of Estimators for Censored Systems of Equations using Monte Carlo Simulation," Selected Poster AAEA Meeting, Seattle.

Hamilton, A., Szmania, S., Kadavy, D., Isbell, M., Gardner, M., Cassagrande, R., Kazmierczak, M., Rush, M., Bieberbach, G., Bieringer, P., Coble, K., **Marsh, T.**, Pendell, D., Bryant, F., Splichal, P. and Brewer, J., “Updated Site-specific biosafety and biosecurity risk assessment for the national bio and agro-defense facility,” Poster, 5th National Bio-Threat Conference, Denver, March 2012.

Inglis, D., Miles, C., Belasco, E., Brodhagen, M., Corbin, A., Espinola-Arredondo, A., Hayes, D., Jones, R., Lee, R., Leonas, K., Liu, H., **Marsh, T.**, Moore-Kucera, K., Wadsworth, L., Wallace, R., Walters, T., and A. Wszelaki. 2010. Biodegradable mulches for specialty crops produced under protective covers. Annual Meeting American Society Horticultural Sciences, August 2–5, 2010, Palm Desert, CA. HortScience 45(8):S208-S209 (Abstract and poster presentation; 500 estimated observers.)

Perevodchikov, E.^a, **Marsh, T.L.**, and Tozer, P. “Simulation of a Foot-and-Mouth Disease (FMD) Outbreak in the U.S. and Australian Beef Sectors.” 2007 WSU Conference on Economics Issues and Outlook, Pasco, WA.

C. Zhang^a, **Marsh, T.L.**, and R.T. Schotzko. “Effectiveness of Pear Advertising and Promotion,” 2007 WSU Conference on Economics Issues and Outlook, Pasco, WA.

“Policy Support to Specialty Crops Producers in the 2007 Farm Bill: Boon or Bane?” C. Wieck, H. H. Chouinard, T. I. Wahl, **T. L. Marsh**, A. Markosyan^a, WSU Show Case Poster and WSU Conference on Economic Issues and Outlook, 2007.

“Caviar Quality and International Trade.” Morgan Irwin^a (undergraduate) and **T. L. Marsh** (advisor), CAHNRS, Under Graduate Research Poster 2005.

OUTREACH CONTACTS, PUBLICATIONS, AND PRESENTATIONS

Marsh, T.L. Washington State Academy of Sciences, GMO report - interviews (radio, television, newspaper) KIROTV, King 5, 7 News Denver, KABI, NWPR, KUOM, KOHO, KPUG, KGMI, Seattle Times, Capital Record, The Olympian, ect.

Marsh, T.L. “Wheat in the PNW,” NC Small Grain Association Meeting, Mebane, NC, August 29 2012.

Young, D.L. Galinato S.P, and **Marsh, T.L.** 2012. “Concerned about Camelina,” *Wheat Life*, June 2012, p:24-28.

Marsh, T.L. “Overview of BCAP,” 2012 WSU Oilseeds production, marketing conference, Colfax, WA.

Marsh, T.L. Quoted in “Farmers in good mood at Yakima Ag Expo,” Capital Press, January, 7, 2012.

Marsh, T.L. Quoted in “Farmers look to 2012 with cautious optimism,” Capital Press, December 30, 2011.

Marsh, T.L. Quoted in “Competition fuels rising food costs,” Lewiston Tribune, December 4, 2011.

Marsh, T.L. Quoted in “Tainted Turkey Still in Homes, Agency Warns,” Wall Street Journal, August 5, 2011.

Marsh, T.L. Quoted in “Global glut, volatile prices make Washington's wheat farmers uneasy,” Puget Sound Business Journal, July 16, 2010.

Marsh, T.L. Quoted in “USDA: Farm profits plummet,” Capital Press, September 6, 2009.

Marsh, T.L. “Wheat and Grain Outlook,” WSU Conference on Economic Issues and Outlook, Pasco, WA, December 6, 2007.

Marsh, T.L. Wheat and Grain Outlook interviews with NPR, Spokane Journal of Commerce, Capital Press, and Northwest Agricultural News Network. 2007.

Marsh, T.L., C. Zhang^a, and R.T. Schotzko. “Effectiveness of Pear Advertising and Promotion,” Pear Bureau Northwest, Portland, May 31, 2007.

Marsh, T.L. 2007. Testimony before the Washington State Senate Committee on Economic Development, Trade, and Management.

Marsh, T.L. 2006. Contributions to the Farm Bill Specialty Crop Briefing, U.S. House Agricultural Committee.

Marsh, T.L., Markoysan, A.^a, Chouinard, H.H., Wahl, T.I., & Wieck, C. (2006). “Invasive Species.” Fact Sheet for Specialty Crops Policy Options and Consequences: Trade issues.

Wahl, T.I., Chouinard, H.H., **Marsh, T.L.**, Wieck, C., & Markoysan, A.^a (2006). Specialty Crops Policy Options and Consequences: Pacific Northwest Region. Final Report.

Wahl, T.I., **Marsh, T.L.**, Wieck, C., Chouinard, H.H., Schotzko, T., Markosyan, A.^a, & Josling, T.E. (2006, May). “Trade Issues.” Fact Sheet for Specialty Crops Policy Options and Consequences.

Marsh, T. L. “International Marketing,” Presentation, Ag Forestry Leadership Conference, Prosser, WA, September 2005.

Marsh, T. L. “Market Trends for Wheat by Class,” Presentation, Pullman City Commerce, Pullman, WA, February 22, 2005.

Crespi, J., S. Grunewald, A. Barkley, J. Fox, and **T. Marsh**. "Potential Economic Impacts from the Introduction of Genetically Modified Wheat on the Export Demand for US Wheat," Report prepared for the Kansas Wheat Commission, April 2005.

Dhuyvetter, K.D., R. Jones, T. Turner, and **T. Marsh**. "Economic Values Associated With Expected Progeny Differences For Angus Bulls At Auction." In *Cattlemen's Day 2005*, Kansas State University Agricultural Experiment Station Report of Progress, No. 923, March 2005

T. L. Marsh, S. Call^a, A. Barkley, and M. Boland. "The Potential to Increase U.S. Demand for Wheat: Emerging Domestic Markets," 2002 Report of Grains Research and Education Reports, Kansas Wheat Commission, Manhattan, KS.

T. L. Marsh, J. Fanning^a, A. Barkley, M. Boland, and K. Stiegert. "Fast Food Sales: The Potential to Increase Wheat Product Consumption ," 2002 Report of Grains Research and Education Reports, Kansas Wheat Commission, Manhattan, KS.

T. L. Marsh and J. Taylor^a. "Transferable Permits and Kansas Deer." Proceedings paper for the 2002 Risk and Profit Conference, Manhattan, KS.

T.L. Marsh, J. Fanning^a, and R. Jones. "Commercial Cow Herd Culling and Replacement Strategies." Proceedings paper for the 2001 Risk and Profit Conference, Manhattan, KS.

J. M. Peterson, **T. L. Marsh**, and J. R. Williams. "Pump It If You Can: Kansas Water Policy at the Crossroads." Proceedings paper for the 2001 Risk and Profit Conference, Manhattan, KS.

T. L. Marsh, and J. Fox. "Kansas Wildlife: Perceptions, Conflicts, and Efficient Management." Proceedings paper for the 2000 Risk and Profit Conference, Manhattan, KS.

T. L. Marsh, Rodney Jones, and Justin Terry^a. 1999. "Commercial Replacement Heifers: Markets, Prices, and Decisions," Proceedings of Risk and Profit Conference, Manhattan, KS.

Mintert, J., T.C. Schroeder, and **T. L. Marsh**. 2000. "What Causes Beef Demand to Shift?" *Kansas Stockman*, July 2000.

Schroeder, T. C., **T. L. Marsh**, and J. Mintert. 2000. "Beef Demand Determinants: A Research Summary." MF-2457 Beef Marketing, Agricultural Experiment Station and Cooperative Extension Service, Kansas State University.

Kimberly A. Williams, James R. Nechols, David C. Margolies, Terry Kastens, **Thomas L. Marsh**, and Sara Schumacher^a. 2000. "Research Report and Findings," Meeting of the Kansas Greenhouse Growers Association.

Kimberly A. Williams, James R. Nechols, David C. Margolies, Terry Kastens, **Thomas L. Marsh**, and Sara Schumacher^a. 1999. "Integrating production and marketing practices with pest management: How can we help?" Meeting of the Kansas Greenhouse Growers Association.

GRADUATE ADVISING

M.S. Students (WSU) – chair 5 and served on 4 other committees

Ph.D. Students (WSU) – chair 12, served on 15 other committees.

Ph.D. Students (KSU) - chair 4 and served on 18 other committees

M.S. Students (KSU) - chair 5 and served on 19 other committees

PHD STUDENTS

Deboch, Tesfaye. 2013. Dissertation – Economics of Livestock Diseases in Africa (chair). Posthumous Award.

Jiang, Xiaojiao. 2013. Dissertation – Topics Three Essays on Tree Fruit Marketing and Trade (chair). Position taken: Post Doctoral Researcher, Washington State University.

Jiang, Jingze. 2013. Dissertation – Economics of Environmental and Sustainable Choices: Plastics and Biodegradable Products (Co-Chair with Jill McCluskey). Position taken: Assistant Professor, Edinboro University.

Zhang, Ruojin. 2013. Dissertation – Essays on Policy Analysis in Agricultural Economics (chair). Position taken: Lecturer Lewis Clark College

Zhao, Yunfei. 2011. Dissertation – Empirical Demand Analysis and Forecasts in Tree Fruit Products (chair). Position taken: Analyst, Citi Bank

Perevodchikov, Evgeniy. 2010. Dissertation - Invasive Species and Livestock Trade (chair). The Thomas S. Foley Institute for Public Policy and Public Service, Burlington Northern Fellowship, 2007-2008. Position taken: assistant professor, Tomsk State University, Russia.

Zhang, Huifang. 2009. Dissertation - Food Safety and Media Information (co-chair with Jill McCluskey). Position taken: State of Washington, Department of Social and Health Services, Research and Data Analysis Manager.

Ponnaluru, Srinivasa. 2009. Dissertation - Essays on Price Formation in Construction Equipment (chair). Position taken: Vijayanagar Sri Krishnadevaraya University.

Zhang, Caiping. 2008. Essays in Empirical Economics: Wheat Gluten Imports, Pear Marketing, and Banking Inefficiency (chair). Position taken: Assistant Professor, Central University of Finance and Economics, Beijing.

Nogueira, Lia. 2008. Non-Tariff Barriers and Research Programs: Trade and Welfare Implications. Washington State University (co-chair with Hayley Chouinard). International Agricultural Trade Research Consortium (IATRC) Ph.D. Dissertation Award, 2008. Position taken: Assistant Professor (tenure track), University of Illinois.

McCullough, Michael. 2007. Phase Space Reconstruction: Methods in Applied Economics and Econometrics. Washington State University (co-chair with Ray Huffaker). Dissertation paper accepted and presented at the 2008 Summer Econometric Society Meetings. Position taken: Assistant Professor (tenure track), California Polytechnic State University, San Luis Obispo.

Benson, Aaron. 2007. Dissertation - Essays in Environmental and Natural Resource Policy. Washington State University (co-chair with Ray Huffaker). Position taken: Assistant Professor (tenure track), Texas Tech University.

Fanning, Jasper. 2006. A Spatial Hedonic Analysis of Veterinarian Incomes (chair). Kansas State University. Research partially supported by the AVMA. Position taken: Ground Water District Manager, Nebraska.

Dong, Fengxia. 2003. State Trading Enterprises in a Differentiated Environment: The Case of Global Malting Barley Markets. Awarded outstanding dissertation by Department of Agricultural Economics, Kansas State University (co-chair with Kyle Stiegert). Position taken: Research Associate, CARD, Iowa State University.

Marshall, Maria. 2002. Endogenous Protection in the Mexican Corn and Sorghum Import Markets, Kansas State University (chair). Gamma Sigma Delta Outstanding Graduate Student Teaching Award. Position: Associate Professor (tenure track), Purdue University.

Schumacher, Sara. 2002. Economic Analysis of Production and Pest Management Decisions Confronting Greenhouse Growers, Kansas State University (chair). Position taken: Visiting Assistant Professor, Kansas State University.

MS STUDENTS

Moses Ole-Neselle. 2013. "Assessment of Foot and Mouth Disease in Tanzania," Paul Allen School for Global Animal Health (chair).

Zhao, Yunfei. 2012. "An Evaluation of Estimators for Censored Systems of Equations using Monte Carlo Simulation," Department of Statistics (chair). Position taken: Analyst, Citi Bank

Sifiso Mhlaba. 2012. "Economic Assessment of Livestock Disease Outbreaks in South Africa," WSU (co-chair w Jon Yoder).

Irwin, Morgan. Expected graduation 2011. "Caviar Import Demand," WSU (chair). Position Taken: Northwest Farm Credit Service.

Flaming, Steve. 2005. "Price Formation for Fresh Sweet Cherries," WSU (co-chair with T. Wahl). Position Taken: Strategic Analyst, Safeway.

Taylor, Justin. 2003. "Price and Policy Analysis of the Kansas Transferable Deer Hunting Permit Program," Kansas State University (chair). Awarded outstanding M.S. thesis by Department of Agricultural Economics. Position taken: Economist, Research Triangle Institute.

Call, Shauna. 2003. "The Determinants of U.S. Wheat Product Consumption," Kansas State University (chair). Position taken: Kansas Department of Agriculture.

Perry, Bill. 2002. "Effects of Joint Product Management Strategies on E. COLI 0157:H7 and Feedlot Profits," Kansas State University (chair). Position taken: Farm Credit Service.

Theriault, Pascal. 2001. "The Influence of Exchange Rate on Beef Trade between the U.S. and Canada," Kansas State University (chair). Position taken: Canadian Livestock Industry.

Terry, Justin. 2000. "Derived Demand for Wheat by Class," Kansas State University (chair). Position taken: USDA-GIPSA.

UNDERGRADUATE PROJECT MENTORING

Cody Harris "Marketing Strategies for Cow-Calf Operations," Spring 2009.

Chung, Jaehyuk "Global Child Birth Rate Decrease," Spring 2007.

Silver, Emily "Agricultural Banking and Finance Review," Spring 2006.

Saloma, Kyle "Water Quality Trading in the PNW," Spring 2005.

Irwin, Morgan. "Caviar Quality and International Trade," Spring 2005.

SERVICE

Journal Reviewer:

Agricultural Economics

American Journal of Agricultural Economics

Applied Mathematics Letters

Applied Economic Perspectives and Policy

Australian Journal of Agricultural and Resource Economics

Agricultural Resource and Economics Review

Bioscience

Canadian Journal of Agricultural Economics

Economics Research International

Empirical Economics

European Review of Agricultural Economics
Food Policy
International Tax and Public Finance
Irrigation Science
Journal of Agricultural Economics
Journal of Agricultural and Applied Economics
Journal of Agricultural and Resource Economics
Journal of Applied Econometrics
Journal of Economics and Environmental Management
Journal of Food Distribution and Research
Journal of International Agricultural Trade and Development
Journal of Public Choice
Journal of Public Economics
Journal of Regional Science
Papers in Regional Science
Review of Agricultural Economics
Review of Economics and Statistics
The Economic Record
Western Economic Forum

Book Reviewer:

Econometric Theory and Methods, Oxford
Econometric Analysis, Prentice Hall
Pearson Addison-Wesley
Advances in Econometrics, Emerald
Econometric Foundations, Cambridge University Press

Evaluator:

BARD Grants
NSF Grants
USDA-CAR & RAMP
USDA-Invasive Species Grants
IMPACT Center Grants, WSU
FSRG Grants, University of Wisconsin
IPM Steering Group Grants, KSU
K-State (external review of Research & Extension Program, 2006)
K-STAR - NSF EPSCoR 1st Award Program
WAEA Teaching Award, Chair
WAEA, Selected Papers
AAEA Annual Meeting Selected Papers and Posters

Regional, National, and International:

Board of Directors, Washington State Academy of Sciences (2013-2016)
Co-Chair, Committee for White Paper on Washington State Initiative 522, Washington State Academy of Sciences, 2013.

Subject Matter Expert, Invited Participant, National Academies of Sciences, Updated NBAF SSRA Meeting, March 16, 2012.
Subject Matter Expert, Invited Participant, National Academies of Sciences, Updated NBAF SSRA Meeting, September 6, 2011.
Subject Matter Expert, Invited Participant, National Academies of Sciences, National Bio- and Agro- Defense Facility (NBAF) Site Specific Risk Assessment (SSRA) Meeting, July, 2010.
Subject Matter Expert, Invited Participant, National Academies of Sciences, National Bio- and Agro- Defense Facility (NBAF) Site Specific Risk Assessment (SSRA) Meeting, February 26, 2010.
Subject Matter Expert, Department of Homeland Security, Director of National Laboratories, National Bio- and Agro- Defense Facility (NBAF) Site Specific Risk Assessment (SSRA) Meeting, February 25, 2010.

AAEA President and Directors Nominating Committee (2012-2014)
AAEA Awards, Dissertation Committee (2008-2011)
Topic Leader for 2005 AAEA Annual Meeting Selected Papers (Consumer Behavior)
Topic Leader for 2005 AAEA Annual Meeting Selected Papers (Quantitative Methods)
Topic Leader for 2004 AAEA Annual Meeting Selected Papers (Consumer Behavior)
Topic Leader for 2004 AAEA Annual Meeting Selected Papers (Quantitative Methods)
Topic Leader for 2001 AAEA Annual Meeting Selected Posters (Quantitative Methods)
Southern Agricultural Economics Association Task Force, (2004)
Regional Project, S-278 Food, Demand, and Nutrition
Regional Project, NC-194, Agricultural and Rural Finance Markets

University and College Service

Member, Faculty Search Committee, Allen School (WSU, 2012)
CAHNRS Ag Program Leadership Team (2009-2011)
Faculty Search Committee, AMDT (WSU 2007-9)
WSU Faculty Senate (2007-2010)
WSU Presidential, Ad Hoc Economic Crisis Committee (2008)
CAHNRS Promotion and Tenure Committee (2006-2008); Chair (2008)
CAHNRS Assessment Initiative for the School of Economics (2005-06)
Graduate Faculty, Kansas State Univ. (1998-2004)
Graduate Task Force, College of Agriculture Review, Kansas State Univ. (1999-2000)
Honors Committee, College of Agriculture, Kansas State Univ. (1999-2002)
Honor Procedures Sub-Committee (1999-2002)
University Steering Committee, Integrated Pest Management (2002-2004)
Recovery Section leader, Department of Homeland Security Center of Excellence Proposal, (Finalist 2003-2004)

Department Service

Member, Faculty Search Committee, Health Economics, Economic Sciences (WSU, 2013)
Member, Graduate Committee, Economic Sciences (WSU, 2013-)
Chair, Faculty Search Committee, Endowed Chair: Grains, Economic Sciences (WSU, 2010)

Member, Faculty Search Committee, Health Economics, Economic Sciences (WSU, 2009-10)
Director's Advisory Committee, School of Economic Sciences (WSU, 2009-2010)
SES, Steering Committee (2008-2010)
Quantitative Methods Prelim Committee (WSU, 2006-present, chair 2006-2009)
Chair, Self Assessment Committee on Scholarship & Research, SES (WSU, 2008)
Chair, Annual Conference Committee, School of Economic Sciences (WSU, 2007)
Chair, Faculty Search Committee, Agribusiness, Economic Sciences (WSU, 2007-8)
Chair, Faculty Search Committee, Health Economics, Economic Sciences (WSU, 2006-7)
Faculty Search Committee Member, Economic Sciences (WSU, 2006-7)
Director's Advisory Committee, School of Economic Sciences (WSU, 2005-6)
Chair, Faculty Search Committee (2 positions), School of Economic Sciences (WSU, 2005-6)
Graduate Committee, School of Economic Sciences (WSU, 2005-2007)
Chair, Masters Curriculum Review Committee, School of Economic Sciences (WSU, 2004-5)
Member, Undergraduate Curriculum Committee, School of Economic Sciences (WSU, 2004-5)
Member of the School of Economics Sciences Publicity Committee (WSU, 2004-5)
Quantitative Methods Prelim Committee (WSU, 2004-present)
Joint Graduate Committee, Department of Agricultural Economics and Department of
Economics, Kansas State Univ. (2000-2004, chair 2002-2003)
Graduate Committee, On Campus MS/PhD and Distance MAB Program, Department of
Agricultural Economics, Kansas State Univ. (1999-2004)
Six Graduate Prelim Committees (1999-2004)
Job Candidate Search and Screening Committee (1999)
Department Head Review Committee, Department of Agricultural Economics, KSU (2000)
Promotion and Tenure Review Procedures Committee, Agricultural Economics, KSU (2000)
Advisor, Agecon/Agbusiness Club, Kansas State Univ. (1999-2001)
Seminar Committees, Department of Agricultural Economics, Kansas State Univ. (1998-2004)

OTHER CONSULTATIONS (Paid and Non-Paid)

Australian Department of Agriculture, Battelle Laboratories, Bonneville Power Administration, Federal Trade Commission, Gates Foundation, National Academy of Sciences, National Cattlemen Beef Association, Signature Science, U.S. Bureau of Reclamation, U.S. Department of Energy, U.S. Department of Homeland Security, U.S. Department of Agriculture, Centers for Disease Control, Tyson Foods, and American Veterinarian Medical Association.