

## **Loren William Tauer**

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### **EDUCATION**

- Iowa State University, Ames, Iowa. Ph.D., Economics (Agricultural Economics), 1979.
  - South Dakota State University, Brookings, South Dakota. M.S., Economics, 1975.
  - Southwest Minnesota State University, Marshall, Minnesota. B.A., Mathematics and Economics, 1973.
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### **PROFESSIONAL EXPERIENCE**

#### **Appointments**

- Assistant (1979), Associate (1985), and Full Professor (1992), Charles H. Dyson School of Applied Economics and Management, Cornell University.
- Department Chair of Applied Economics and Management and then the first David J. Nolan Director of the Charles H. Dyson School of Applied Economics and Management, Cornell University, 2008-2013.
- Director of Graduate Studies for Agricultural Economics, 1989-1993, and Director of Graduate Studies for Applied Economics and Management, 2007-2008, Cornell University.
- Instructor, Economics Department, Iowa State University, 1975-1979.
- Honorary Fellow, Massey University, New Zealand, 2013-2015.
- Visiting Professor, University of Agriculture, Nitra, Slovakia, 1994.
- Visiting Economist, Economic Research Service, USDA, 1987.

#### **College and University Committees**

- University Faculty Committee on Program Review, 2017-2020
- University FACTA (University Tenure Review) Committee, 2016-2018
- CALS College Nominations Committee, 2015-2018
- University Faculty Senate, 2004-2006

- CALS College Admission Committee, 2002-2004
- University Committee on Financial Policies, 1993-1995
- University Faculty Senate, 1992-1994
- CALS College Policy Committee, 1981-1983
- University Budget Committee, 1980-1982

### Professional Activities

- President, Northeastern Agricultural and Resource Economics Association, 2000-2001.
- Editor, *Agricultural and Resource Economics Review (Northeastern Journal of Agricultural and Resource Economics)*, 1990-1992.
- Associate Editor, *Agricultural Finance Review*, 1983-1989.
- Inaugural Fellow of the *Agricultural and Resource Economics Review*, 2013
- Northeastern Agricultural and Resource Economics Association's Distinguished Member Award, 1993
- Best Paper, Family Business Award, United States Association for Small Business and Entrepreneurship, 2013
- American Agricultural Economics Association's Extension Program Award for a Team, 1984
- Editorial Board, *Journal of Dairy Science*, 2018- 2022
- Editorial Board, *Review of Agricultural and Applied Economics*, 2014-2016.
- Editorial Council, *Journal of Agricultural and Applied Economics*, 2005-2008 and 2014-2017.
- Editorial Board, *Electronic Journal of Polish Agricultural Universities*, 2000-2005.
- Editorial Council, *Review of Agricultural Economics*, 1999-2002.

### Refereed Journal Articles

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- Verteramo Chiu, L.J., Tauer, L.W., and Grohn, Y. T. (2022). Pricing efficiency in livestock auction markets: A two-tier frontier approach. *Agricultural Economics*, [doi.org/10.1111/agec.12735](https://doi.org/10.1111/agec.12735)
- Verteramo Chiu, L.J., Tauer, L.W., Lhermie. G., Kaniyamattam, K., Grohn Y.T. (2022). Benefits of preconditioning cattle under stochastic feedlot performance. *Journal of Agricultural and Applied Economics*, doi:10.1017/aae.2022.32
- Kaniyamattam K, Hertl J, Tauer LW, and Grohn YT. (2022). Economics of reducing antibiotic usage for pathogen-specific clinical mastitis through genomic selection and disease management. *Preventive Veterinary Medicine*. doi: 10.1016/j.prevetmed.2022.105642.
- Aparicio, Juan, Harold Fried, Jesus Pastor, Loren W. Tauer (2021) Learning to win on the PGA tour. *Applied Economics*, 53:53:6104-6119. DOI:10.1080/00036846.2020.1784391.

- Tauer, Loren W. (2021) Determining the accuracy of Holstein bull semen prices with a Two-Tier efficiency model. **Journal of Applied Farm Economics**, Vol. 4: Issue 1, Article 5. DOI: 10.7771/2331-9151.1060. <https://docs.lib.purdue.edu/jafe/vol4/iss1/5>
- Kaniyamattam, Karun, Loren Tauer, Yrjo Grohn (2021). System economic costs of antibiotic use elimination in the US beef supply chain. **Frontier Veterinary Science**, 26 <https://doi.org/10.3389/fvets.2021.606810>
- Verteramo Chiu, Leslie; Loren Tauer; Yrjo Grohn; Rebecca Smith. (2020) Ranking disease control strategies with stochastic outcomes. **Preventive Veterinary Medicine**, 176: Article 104906. <https://doi.org/10.1016/j.prevetmed.2020.104906>
- Verteramo Chiu, Leslie J.; Loren W. Tauer, Rebecca L. Smith, and Yrjo T. Grohn (2020) Economic effects of a potential foodborne disease: Potential relationship between Mycobacterium Avium Subs. Paratuberculosis (MAP) in dairy and Crohn's in humans. **International Journal of Food System Dynamics** 11(5):482-502. <http://dx.doi.org/10.18461/ijfsd.v11i5.69>
- Kaniyamattam, Karun; De Vries, Albert; Tauer, Loren W.; Grohn, Yrjo T. (2020) Economics of reducing antibiotic usage for clinical mastitis and metritis through genetic selection. **Journal of Dairy Science**, 103(1):473–491. <https://doi.org/10.3168/jds.2018-15817>
- Lhermie G, Sauvage P, Tauer LW, Chiu LV, Kaniyamattam K, Ferchiou A, Raboisson D, Scott HM, Smith DR, Grohn YT (2020) Economic effects of policy options restricting antimicrobial use for high risk cattle placed in U.S. feedlots. **PLoS ONE** 15(9): e0239135. <https://doi.org/10.1371/journal.pone.0239135>
- Fried, H., and Tauer, L. (2019) Efficient wine pricing using stochastic frontier models. **Journal of Wine Economics**. 14(2):164-181. doi:10.1017/jwe.2019.16
- Itthipong, Mahathanaseth and Loren W. Tauer (2019) Monetary policy transmission through the bank lending channel in Thailand. **Journal of Asian Economics**. 60:14-32.
- Tauer, Loren (2019) Farmer productivity by age in the United States. **International Journal of Agricultural Management** 8(2):74-80.
- Whitt CE, Tauer LW, Huson H (2019) Bull efficiency using dairy genetic traits. **PLoS ONE** 14 (11): e0223436. <https://doi.org/10.1371/journal.pone.0223436>
- Lhermie, Guillaume, Didier Wernli, Peter Jørgensen, Don Kenkel, C.-Y. Cynthia Lin Lawell, Loren Tauer, and Yrjo Grohn (2019) Tradeoffs between resistance to antimicrobials in public health and their use in agriculture: Moving towards sustainability assessment. **Ecology Economics** 166: <https://doi.org/10.1016/j.ecolecon.2019.106427>
- Lhermie, Guillaume, Leslie Verteramo Chiu, Karun Kaniyamattam, Loren William Tauer, Harvey Morgan Scott, Yrjo Grohn (2019) Antimicrobial policies in United States beef production: choosing the right instruments to reduce antimicrobial use and resistance under structural and market constraints. **Frontiers in Veterinary Science, Section Veterinary Epidemiology and Economics** 6:245

- Verteramo Chiu LJ, Tauer LW, Grohn YT, Smith RL (2019) Mastitis risk effect on the economic consequences of paratuberculosis control in dairy cattle: A stochastic modeling study. **PLoS ONE** 14(9): e0217888. [https://doi.org/ 10.1371/journal.pone.0217888](https://doi.org/10.1371/journal.pone.0217888)
- Verteramo Chiu, Leslie J. , Loren W. Tauer, Rebecca L. Smith and Yrjo T. Grohn (2019) Assessment of the bovine tuberculosis elimination protocol in the United States. **Journal of Dairy Science**. 102:2384-2400.
- Lhermie, Guillaume, Didier Wenlii, Peter Sogaard Jorgensen, Donald Kenkel, Loren William Tauer, Yrjo Tapio Grohn (2019) Global resistance to antimicrobials and their sustainable use in agriculture. **The Lancet Planetary Health**. 3(3):e109-e110.
- Hertl, Julia A., Ynte Schukken, Loren W. Tauer, Francis L. Welcome, and Yrjo Tapio Grohn (2018) Does clinical mastitis in the first 100 days of Lactation 1 predict increased mastitis occurrence and shorter herd life in dairy cows? **Journal of Dairy Science**. 101:2309-2323
- Lhermie, Guillaume, Loren W. Tauer, Yrjo Tapio Grohn (2018) The farm cost of decreasing antimicrobial use in dairy production. **PLoS ONE**. 13(3): e0194832. <https://doi.org/10.1371/journal.pone.0194832>
- Verteramo Chiu, Leslie J., Loren W. Tauer, Mohammad A. Al-Mamun, Karun Kaniyamattam, Rebecca L. Smith, and Yrjo T. Grohn (2018) An agent-based model evaluation of economic control strategies for paratuberculosis in a dairy herd. **Journal of Dairy Science**. 101:6443-6454.
- Lhermie, Guillaume, Loren W. Tauer, Yrjo Tapio Grohn (2018) An assessment of the economic costs to the U.S. dairy market of antimicrobial use restrictions. **Preventive Veterinary Medicine**. 160:63-67.
- Troendle, Jason A., Loren W. Tauer, Yrjo T. Gröhn (2017) Optimally achieving milk bulk tank somatic cell count thresholds, **Journal of Dairy Science**. 100:731-738.
- Dooley, Anne E.; Shadbolt, Nicola M.; Khatami, Koohyar; and Tauer, Loren W. (2017) Application of the Adjusted Weak Axiom of Profit Maximization to New Zealand Dairy Farming, **Journal of Applied Farm Economics**.1(2), Article 4.
- Dressler, Jonathan B. and Loren W. Tauer (2016) Estimating Expected and Unexpected Losses for Agricultural Mortgage Portfolios. **American Journal of Agricultural Economics** 98(5):1470–1485.
- E. Cha, J. A. Hertl, Y.H. Schukken, L.W. Tauer, F.L. Welcome and Y. T. Gröhn (2016) Evidence of no protection for a recurrent case of clinical mastitis from a previous case of pathogen specific clinical mastitis. **Journal of Dairy Research** 83:72-80.
- Tauer, Loren W. (2016) The effect of bovine Somatotropin on the cost of producing milk: Estimation using propensity scores. **Journal of Dairy Science** 99:2979-2985.
- Borges, Joao Augusto, Loren William Tauer, and Alfons Oude Lansink (2016) Using the theory of planned behavior to identify key beliefs underlying Brazilian cattle farmers' intention to use improved natural grassland: a MIMIC modelling approach. **Land Use Policy** 55:193-203.

- E. Cha, R.L. Smith, A.R. Kristensen, J. A. Hertl, Y.H. Schukken, L.W. Tauer, F.L. Welcome, and Y.T. Gröhn (2016) The value of pathogen information in treating clinical mastitis. **Journal of Dairy Research** 83(4):456-463.
- Dressler, Jonathan B. and Loren Tauer (2015) Socioemotional wealth in the family farm. **Agricultural Finance Review** 75:403-415
- Fried, Harold O. and Loren W. Tauer (2015) An entrepreneur performance index. **Journal of Productivity Analysis** 44:69-77
- Smith, R.L., L. W. Tauer, M. W. Sanderson, Y. T. Gröhn (2014) Minimum cost to control bovine tuberculosis in cow-calf herds. **Preventive Veterinary Medicine**. 115:18-28.
- Tauer, L. W. (2014) Are Two Heads Better than One Head in Managing the Family Business? **Applied Economics Letters**. 21:960-964.
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- Hertl, J. A., Y. H. Schukken, F. L. Welcome, L. W. Tauer, and Y.T. Gröhn (2014) Effects of Pathogen-Specific Clinical Mastitis on Probability of Conception in Holstein Dairy Cows. **Journal of Dairy Science**. 97: 6942–6954.
- Mahathanaseth, I. and L.W. Tauer (2014) Performance of Thailand Banks after the 1997 East Asian Financial Crisis. **Applied Economics**. 46:3763-3776.
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- Derks, M., H. Hogeveen, S.R. Kooistra, T. van Werven, L.W. Tauer (2014) Efficiency of Dairy Farms Participating and not Participating in Veterinary Herd Health Management Programs. **Preventive Veterinary Medicine**. 117:478-486.
- Mahathanaseth, I. and L. W. Tauer (2014) Thailand's Market Power in its Rice Export Markets. **Journal of Agricultural & Food Industrial Organization**. 12:109-120.
- Tauer, L.W. (2013) Life Insurance Funding of Buy-Sell Arrangements in Family Businesses. **Journal of Family Business Management**. 3:108-116.
- Smith, R.L., L.W. Tauer, Y.H. Schukken, Z. Lu, R.M. Mitchell, and Y.T. Grohn (2013) Minimizing of Bovine Tuberculosis Control Costs in US Dairy Herds. **Preventive Veterinary Medicine**. 112:266-275.
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- Neyhard, James, Loren Tauer, and Brent Gloy (2013) Analysis of Price Risk Management Strategies in Dairy Farming using Whole Farm Simulation. **Journal of Agricultural and Applied Economics**. 45:313-327.

- Cha, E., J.A. Hertl, Y.H. Schukken, L.W. Tauer, F.L. Welcome and Y.T. Grohn (2013) The Effect of Repeated Episodes of Bacteria-specific Clinical Mastitis on Mortality and Culling in Holstein Dairy Cows. **Journal of Dairy Science**. 96:4993-5007.
- Alvarez, Antonio, Julio del Corral and Loren W. Tauer (2012) Modeling Unobserved Heterogeneity in New York Dairy Farms: One Stage versus Two-Stage Models. **Agricultural and Resource Economics Review**. 41:275-285.
- Steeneveld, W., L.W. Tauer, H. Hogeveen, and A.G.J.M. Oude Lansink (2012) Comparing Technical Efficiency of Farms with an Automatic Milking System and a Conventional Milking System. **Journal of Dairy Science**. 95:7391-7398.
- Mahathanaseth, Itthipong and Loren W. Tauer (2012) Market-Power versus Cost-Efficiency in Thailand's Banking Sector in the Post-Crisis Period (1998-2011). **Journal of Asian Economics**. 23(5):499-506.
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- Hertl, J. A., Y. H. Schukken, D. Bar, R. N. Gonzalez, B. J. Rauch, F. L. Welcome, L. W. Tauer, and Y. T. Grohn (2011) The effect of recurrent episodes of clinical mastitis caused by gram-positive and gram-negative bacteria and other organisms on mortality and culling in Holstein dairy cows. **Journal of Dairy Science**. 94:4863-4877.
- Cha, E., D. Bar, J. A. Hertl, L. W. Tauer, G. Bennett, R. N. Gonzalez, Y. H. Schukken, F. L. Welcome, and Y. T. Grohn (2011) The cost and management of different types of clinical mastitis in dairy cows estimated by dynamic programming. **Journal of Dairy Science**. 94:4476-4487.
- Fried, Harold O. and Loren W. Tauer (2011) The impact of age on the ability to perform under pressure: golfers on the PGA tour. **Journal of Productivity Analysis**. 35:75-84.
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- Byma, Justin and Loren W. Tauer (2010) Exploring the role of managerial ability in influencing dairy farm efficiency. **Agricultural and Resource Economics Review**. 39(3):505-516.
- Gillespie, Jeffrey, Richard Nehring, Charlie Hallahan, Carmen Sandretto and Loren Tauer (2010) Adoption of Recombinant Bovine Somatotropin and Farm Profitability: Does Farm Size Matter? **AgBioForum**. 13(3):251-262.
- Tauer, Loren W. (2009) Estimation of Treatment Effects of Recombinant Bovine Somatotropin using Matching Samples. **Review of Agricultural Economics**. 11:411-423.

- Schmit, T. M., J. Luo, and L.W. Tauer (2009) Ethanol Plant Investment using Net Present Value and Real Option Analyses. **Biomass and Energy**. 33:1442-1451.
- Nakane, M., and L.W. Tauer (2009) Empirical Dairy Profits under Fluctuating Prices. **Applied Economics**. 41:5-15.
- Y. H. Schukken, J. Hertl, D. Bar, G. J. Bennett, R. N. González, B. J. Rauch, C. Santisteban, H. F. Schulte, L. Tauer, F. L. Welcome, and Y. T. Gröhn (2009) Effects of Repeated Gram-Positive and Gram-Negative Clinical Mastitis Episodes on Milk Yield Loss in Holstein Dairy Cows. **Journal of Dairy Science**. 92: 3091-3105.
- Bar, D., L. W. Tauer, G. Bennett, R. N. González, J. A. Hertl, H. F. Schulte, Y. H. Schukken, F. L. Welcome, and Y. T. Gröhn (2009) Use of a Dynamic Programming Model to Estimate the Value of Clinical Mastitis Treatment and Prevention Options utilized by Dairy Producers. **Agricultural Systems**. 99:6-12.
- Bar, D., Y. T. Gröhn, G. Bennett, R. N. González, J. A. Hertl, H. Schulte, L. W. Tauer, F. L. Welcome, and Y. H. Schukken (2008) Effects of Repeated Episodes of Generic Clinical Mastitis on Mortality and Culling in Dairy Cows. **Journal of Dairy Science**. 91:2196-2204.
- Bar, D., L. W. Tauer, G. Bennett, R. N. González, J. A. Hertl, Y. H. Schukken, H. F. Schulte, F. L. Welcome, and Y. T. Gröhn (2008) The Cost of Generic Clinical Mastitis in Dairy Cows as Estimated by using Dynamic Programming. **Journal of Dairy Science**. 91:2205-2214.
- Tauer, L. W., H. O. Fried, and W. E. Fry (2007) Measuring Efficiencies of Academic Departments within a College. **Education Economics** 15:473-489.
- Bar D., Y. T. Gröhn, G. Bennett, R. N. González, J. A. Hertl, H. F. Schulte, L. W. Tauer, F. L. Welcome, and Y. H. Schukken (2007) Effect of Repeated Episodes of Generic Clinical Mastitis on Milk Yield in Dairy Cows. **Journal of Dairy Science** 90:4643-4653.
- Cho J., T. R. Overton, C. G. Schwab, and L. W. Tauer (2007) Determining the Amount of Rumen-Protected Methionine Supplement that Corresponds to the Optimal Levels of Methionine in Metabolizable Protein for Maximizing Milk Protein Production and Profit on Dairy Farms. **Journal of Dairy Science** 90:4908-4916.
- Tauer, L. W., C. Nightingale, R. Ivanek, Y. T. Gröhn, M. Wiedmann (2007) Optimal Levels of Inputs to Control *Listeria Monocytogenes* Contamination at a Smoked Fish Plant. **Agribusiness** 23:229-244.
- Tauer, Loren W. and Ashok K. Mishra (2006) Dairy Farm Cost Efficiency. **Journal of Dairy Science** 89:4937-4943.
- Tauer, Loren W. (2006) When to Get In and Out of Dairy Farming: A Real Option Analysis. **Agricultural and Resource Economics Review** 35(2):339-347.
- Tauer, Loren W. (2006) Impact of Recombinant Bovine Somatotropin on Dairy Farm Cost of Production: Evidence from Multiyear Data. **AgBioForum** 9(2):79-83.
- Luong, Quoc V. and Loren W. Tauer (2006) A Real Option Analysis of Coffee Planting in Vietnam. **Agriculture Economics** 35:49-57.

- Tauer, Loren W. and Ashok K. Mishra (2006) Can the Small Dairy Farm Remain Competitive in US Agriculture? **Food Policy** 31:458-468.
- Chang, Hung-Hao and Loren W. Tauer (2005) Semi-Parametric and Parametric Estimation and Tests of Adoption: An Application to Bovine Somatotropin Technology. **Agriculture and Economics** 35:1-26.
- Tauer, Loren (2005) The Impact of Recombinant Bovine Somatotropin on Dairy Farm Profits: A Switching Regression Analysis. **AgBioForum** 8(1):33-39.
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- Tauer, Loren W. (2001) Efficiency and Competitiveness of the Small New York Dairy Farm. **Journal of Dairy Science** 84(11):2573-2576.
- Tauer, Loren W. (2001) Input Aggregation and Computed Technical Efficiency. **Applied Economics Letters** 8(5):295-297.
- Schmidt, T. M., R.N. Boisvert and L. W. Tauer (2001) Measuring the Financial Risks of New York Dairy Producers. **Journal of Dairy Science** 84(2):411-420.
- Tauer, Loren W. and Nazibrola Lordkipanidze (2000) Farmer Efficiency and Technology Use with Age. **Agricultural and Resource Economics Review** 29(1):24-31.
- Stefanides, Zdenko and Loren Tauer (1999) The Empirical Impact of Bovine Somatotropin on a Group of New York Dairy Farms. **American Journal of Agricultural Economics**. 81(1):95-102.
- Tauer, Loren W. (1998) Productivity of New York Dairy Farms Measured by Non-Parametric Indices. **Journal of Agricultural Economics**. 49(2):234-249.
- Tauer, Loren W. (1998) Cost of Production for Stanchion Versus Parlor Milking in New York. **Journal of Dairy Science**. 81(2):567-569.
- Tauer, Loren and Zdenko Stefanides (1998) Success in Maximizing Profits and Reasons for Profit Deviation on Dairy Farms. **Applied Economics**. 30(2):151-156.
- Tauer, Loren W. (1997) Determining an Equitable Allocation of Farm Partnership Income. **Journal of the American Society of Farm Managers and Rural Appraisers**. 61:43-49.
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