

## CURRICULUM VITAE

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### CAREER OBJECTIVES:

An endowed or named chair offering the opportunity to advance the teaching, research and policy analysis of Land Grant Universities.

### EDUCATION:

Texas A&M University, College Station, Texas 77843  
September 1983 - December 1987  
Ph.D. in Agricultural Economics. Concentration: Water Resources and Production Economics  
Purdue University, West Lafayette, Indiana 47907  
September 1981 - May 1983  
M.S. degree in Agricultural Economics  
New Mexico State University, Las Cruces, New Mexico 88003  
September 1978 - May 1981  
B.S. in Agricultural Economics

### PROFESSIONAL EXPERIENCE:

Associate Director, 2008 – August, 2011, Center for the Environment, Purdue University  
Professor, July 1999 - present, Purdue University  
Associate Professor, July 1994 - June 1999, Purdue University  
Assistant Professor, June 1990 - June 1994, Purdue University  
Assistant Professor, August 1987 - June 1990, Louisiana State University  
Research Associate, September 1984 - August 1987, Texas A&M University  
Research Assistant, September 1983 - August 1984, Texas A&M University  
Engineering Technician, June - August, 1981 & 1983, Ktech Corporation,  
Albuquerque, New Mexico  
Research Assistant, September 1981 - May 1983, Purdue University

### AWARDS AND HONORS:

Dean's List, 1979-1981, New Mexico State University  
Alpha Zeta, 1979-1981, New Mexico State University  
Gamma Sigma Delta, Agricultural Honorary, Texas A&M University, 1984  
Shell Research Fellowship, Texas Water Resources Institute, Texas A&M University, 1985  
Distinguished Professional Contribution Award in Research, Southern Agricultural Economics Association, 1992  
Berg Fellows of Public Conservation Policy, Soil and Water Conservation Society, 1992  
Distinguished Extension Award, Indiana Agriculture 2000 project, American Agricultural Economics Association, 1993  
Best Journal Article, Journal of Agriculture and Applied Economics, Southern Agricultural Economics Association, 2004  
Distinguished Agricultural Alumni – NMSU October, 2015

## PROFESSIONAL MEMBERSHIP:

American Agricultural Economics Association  
Southern Agricultural Economics Association  
Western Agricultural Economics Association  
Resource Policy Consortium  
Soil and Water Conservation Society

## REFEREED JOURNAL ARTICLES:

- Lee, John G., Deborah J. Brown, and Stephen B. Lovejoy. 1985. "Stochastic Efficiency versus Mean Variance Criteria as Predictors of Adoption of Reduced Tillage." *American Journal of Agricultural Economics*, 67(4):839-845.
- Lee, John G., John R. Ellis, and Ronald D. Lacewell. 1985. "Valuation of Improved Irrigation Efficiency from an Exhaustible Groundwater Source." *Water Resources Bulletin*, 21(3):441-447.
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- Teague, Paul W. and John G. Lee. 1988. "Risk Efficient Perennial Crop Selection: A MOTAD Approach to Citrus Production." *Southern Journal of Agricultural Economics*, 20(2):145-152.
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- Lee, John G., Kelly J. Bryant, and Ronald D. Lacewell. 1989. "Crop Rotation Selection versus Wind Erosion Susceptibility." *Journal of Soil and Water Conservation*, 33(6):620-624.
- Lacewell, Ronald D., Jonathan G. Taylor, John G. Lee and John R. Ellis. 1989. "Implications of Changing Economic and Groundwater Conditions Across the Great Plains." *Journal of Farm Managers and Rural Appraisers*, 53(2):15-20.

- Lee, John G. and Ronald D. Lacewell. 1990. "Farm Program Impacts on an Exhaustible Groundwater Supply: An Analysis of the Texas Southern High Plains." *Water Resources Research*, 26(3): 361-368.
- Hinson, Roger, Mooyul Huh, and John G. Lee. 1990. "Risk Efficient Fresh Vegetable Terminal Markets." *Southern Journal of Agricultural Economics*, 22(2):39-48.
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- Lee, John G., Ronald D. Lacewell, and James W. Richardson. 1991. "Soil Conservation Versus Commodity Programs: Trade Offs During the Transition to Dryland Production." *Southern Journal of Agricultural Economics*, 23(1):203-211.
- Dai, Qi, Jerald J. Fletcher, and John G. Lee. 1993. "Incorporating Stochastic Variables in Crop Response Models: Implication for Fertilization Decisions." *American Journal of Agricultural Economics*, 75(2):377-386.
- Habeck, M.H., S.B. Lovejoy, and John G. Lee. 1993. "When Does Spending Money on Classical Biological Control Make Economic Sense?" *Florida Entomologist*, 76(1):97-101.
- Foltz, John C., John G. Lee, and Marshall Martin. 1993. "Farm-Level Economics and Environmental Impacts of Eastern Corn Belt Cropping Systems." *Journal of Production Agriculture*, 6(2):290-296.
- Pritchard, Tim W., John G. Lee, and Bernie Engel. 1993. "Reducing Agricultural Sediment: An Economic Analysis of Filter Strips Versus Micro-Targeting." *Water Science and Technology*, 28(3):561-568.
- Srinivasan, R., B.A. Engel, Jeff R. Wright, John G. Lee, and Don D. Jones. 1994. "The Impact of GIS Derived Topographic Attributes on a Nonpoint Source Pollution Model (AGNPS)." *Journal of Applied Engineering and Agriculture*, 10(4):561-566.
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- Randhir, Timothy O. and John G. Lee. 1996. "Managing Local Commons in Developing Economies: An Institutional Approach." *Ecological Economics*, Vol 12:1-12.
- Lovejoy, S.B., John G. Lee, Timothy Randhir, and Bernard Engel. 1997. "Research Needs for Water Quality Management in the 21<sup>st</sup> Century: A Spatial Decision Support System." *Journal of Soil and Water Conservation*, 52(1): 18-22.
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- Paarlberg, Phillip and John G. Lee. 1998. "Import Restrictions in the Presence of a Health Risk: An Illustration Using FMD." *American Journal Agricultural Economics*, 80(1):175-183.

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- Petry, M., P.L. Paarlberg, and J.G. Lee. 1999. "PRRS and the North American Swine Trade: A Trade Barrier Analysis." *Journal of Agricultural and Applied Economics*. 31(3):425-436.
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- Randhir, T.O., J.G. Lee, and B. Engel. 2000. "Multiple Criteria Dynamic Spatial Optimization to Manage Water Quality on a Watershed Scale." *Transactions of the ASAE*. 43(2):291-299.
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- Paarlberg, P.L. and J.G. Lee. 2001. "U.S. Lamb Trade Policy: Who Gets Fleeced." *American Journal of Agricultural Economics*, 83(1):196-208.
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- Paarlberg, P.L., M.E. Bredahl, and J.G. Lee. "Multifunctionality and Agricultural Trade Negotiations," *Review of Agricultural Economics*. 24,2:322-335, Winter 2002.
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- Carver, A.D., C.M. Basman, and J.G. Lee. 2003 "Assessing the Non-Market Valuation of Heritage Interpretation Programs." *Journal of Interpretation Research*. (8)1:83-92.
- Paarlberg, P.L., J.G. Lee, and A.H. Seitzinger. "Economic Modeling of Livestock Disease Outbreaks," *International Food and Agribusiness Management Review*. 8,1:62-77. 2005.
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- Leister, A.M., P.L. Paarlberg and J.G. Lee. 2016 "Dynamic Effects of Drought on the U.S. Beef Supply Chain." Forthcoming December 2016. *Agricultural and Resource Economics Review*.

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- Lacewell, Ronald D. and John G. Lee. 1988. "Land and Water Management Issues: Texas High Plains." Book chapter in: M. T. El-Ashry and D. C. Gibbons (eds.) *Water and the Arid Lands of the United States*, Cambridge University Press, London, England.
- Lacewell, R.D., J.G. Lee, C.W. Wendt, R.J. Lascano, and J.W. Keeling. 1990. "Implications of Alternative Dryland Crop Rotations: Texas High Plains." Book chapter in: P.W. Unger, W.R. Jordan, T.V. Sneed, and R.W. Jensen (eds.) *Challenges in Dryland Agriculture-A Global Perspective*, Texas A&M University Press, College Station, Texas.
- John G. Lee, Douglas Southgate, and John H. Sanders. 1998. "Methods of Economic Assessment of On-Site and Off-Site Costs of Soil Degradation." Book chapter in R. Lal, C. Valentine, and B.A. Stewart (eds.) *Methods for Assessment of Soil Degradation*, CRC Press, Boca Raton, FL.
- Paarlberg, P.L. and J.G. Lee. "Import Restrictions in the Presence of a Health Risk: An Illustration using FMD," *The WTO and Technical Barriers to Trade*. S. Henson and J.S. Wilson (ed.) Cheltenham, UK: Edward Elgar Publishing, 2005. pp.245-253
- Paarlberg, P.L. and J.G. Lee. "Multifunctionality and Agricultural Trade Negotiations," *The WTO and Agriculture*. Volume II. K.Anderson and T. Josling (ed.) Cheltenham, UK: Edward Elgar Publishing, 2005. pp. 337-350.
- Seitzinger, A.H., P.L. Paarlberg, and J.G. Lee. "Economic Impacts of Eradicating Scrapie, Ovine Progressive Pneumonia, and Johne's Disease on US Sheep, Lamb, Sheep Meat, and Lamb Meat," *The Economics of Livestock Disease Insurance: Concepts, Issues, and International Case Studies*. S.R. Koontz, D.L. Hoag, D. Thilmany, J.W. Green, and J.L. Grannis (eds.) Wallingford, UK: CABI Publishing 2006. Chapter 16, pp. 193-206.

## CONFERENCE PROCEEDINGS AND INVITED PAPERS

- Lee, John G., John R. Ellis, and Ronald D. Lacewell. 1986. "Profitability of Dryland Cotton-Based Crop Rotations in the Texas High Plains." Proceedings of *Beltwide Cotton Production Research Conference*. 46:302-305.
- Lee, John G. "Use of Bio-Economic Simulation: Pro-Active Versus Reactive Research." Invited paper at the Louisiana Agricultural Experiment Station Staff Conference, January 7-8, 1988.
- Lee, John G. and Ronald D. Lacewell. 1989. "Bio-Economic Modeling for Conservation Planning." Proceedings of *Society for Computer Simulation*. 21:727-731.

- Lee, John G. "Conservation Compliance: Beyond the Static First Order Conditions." Invited paper at the Agricultural, Resource, and Environmental Policy Research Consortium, Washington, D.C., May 16-17, 1990.
- Lovejoy, Stephen B. and John G. Lee. "Reducing Fertilizer and Pesticide Use: Expensive? Free? A Good Value?" Proceedings for the Council on Agricultural Research, Extension and Teaching, West Lafayette, Indiana, November, 1990, pg. 15.
- Lovejoy, Stephen B., Barbara Dunkelberg, and John G. Lee. "Sources and Quantities of Nutrients Entering the Gulf of Mexico." Proceedings on the Environmental and Economic Status of the Gulf of Mexico, New Orleans, Louisiana, December 2-5, 1990, pp. 42-43.
- Lee, John G. "Quantifying Production and Marketing Risk of Vegetable Crops under Uncertainty." Invited paper at the Southern Agricultural Economics Association Meeting, Fort Worth, Texas, February 5, 1991, *Southern Journal of Agricultural Economics*, 23(1991):275.
- Habeck, M.H., S.B. Lovejoy, and John G. Lee. "When Does Spending Money on Classical Biological Control Make Economic Sense?" Proceedings of the 75<sup>th</sup> Annual Florida Entomological Society, Stuart, Florida, August 10-13, 1992.
- Randhir, Timothy, John G. Lee, Bernard Engel, Henry Manguerra, Jane Frankenberger, and Anne Spacie. "Ecosystem-based Least-cost Planning in Watersheds: A Spatial Optimization Approach." Proceedings of Investigating Ecosystem Dynamics at a Watershed Level, Athens, GA, April 13-16, 1997.
- Liang, Kathleen, Stephen B. Lovejoy, and John G. Lee. "Green Taxes: Impacts on U.S. Factor Markets." Proceedings of the Third Annual Interdisciplinary Environmental Association Conference, Boston, MA, June 2, 1997.

#### OTHER PUBLICATIONS:

- Lacewell, Ronald D., John G. Lee, Paul W. Teague, John R. Ellis. "Agriculture in the 1980's." Internal report to outline the benefits of TAES research prepared for the Director of the Texas Agricultural Experiment Station, August 1984.
- Lacewell, Ronald D., John G. Lee, and Gary D. Condra. "Dryland Catch Crop Alternatives for Cotton Prepared Land." Paper prepared for the Texas Agricultural Experiment Station, May 1984.
- Lee, John G. and Stephen B. Lovejoy. "Finley Creek Watershed: An Economic Analysis of Sedimentation Policies." Staff Paper No. 84-9, Purdue University, July 1984.
- Lee, John G., Ronald D. Lacewell, John R. Ellis, and Duane R. Reneau. "Estimated Farm Level Benefits of Improved Irrigation Efficiency." *Texas Water Resources Institute*, Technical Report 133, July 1984.

- Jones, Lonnie L., Ronald D. Lacewell, John G. Lee, and Teofilo Ozuna, Jr. "Volume 3, Appendix N, Completion Report." Contract report of San Antonio Regional Water Resource Study prepared for CH2MHill Engineering, January 1986.
- Lippke, L. A., J. W. Richardson, E. G. Smith, B. L. Harris, L. L. Jones, and J. G. Lee. "The Conservation Compliance Provisions of the Food Security Act of 1985—Interim Rules on the Texas Southern High Plains." Report for the Agricultural and Food Policy Center, October 20, 1986.
- Teague, Paul W. and John G. Lee. 1986. "Texas Grapefruit Spacing Revisited: Analysis under Risk." *Citrograph*, November, 1986:17-19.
- Chapman, Brian A. and John G. Lee. "Projected Costs and Returns, Sugarcane: Louisiana, 1988." Dept. of Agricultural Economics and Agribusiness, Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center, A.E.A. 62, January 1988.
- Paxton, K. W., D. C. Huffman, T. P. Zacharias, and John G. Lee. 1988. "Assessing Crop and Livestock Production Costs for 1988." *Louisiana Rural Economist*, 50(1):2-6.
- Chapman, Brian A. and John G. Lee. "Projected Costs and Returns, Sugarcane: Louisiana, 1989." Dept. of Agricultural Economics and Agribusiness, Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center, A.E.A. 74, January 1989.
- Lacewell, Ronald D., John G. Lee, Charles W. Wendt, Robert Lascano, and Wayne Keeling. "Yield and Profit Implications of Alternative Rotations and Tillage Practices: Texas High Plains." Texas Agricultural Experiment Station Bulletin No. 1619, February 1989.
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- Hinson, Roger, Mooyul Huh, and John G. Lee. 1990. "Risk Efficient Fresh Vegetable Terminal Markets for Louisiana." *Louisiana Rural Economist*, 51(4):9-14.
- Lee, John G. 1990. "Conservation Compliance: An Answer to Environmental Concerns?" Article in *Implementing Agricultural Policies to Achieve Environmental Objectives: Lessons for the 1990's*. Edited by S.B. Lovejoy and K.M. Resler, Resource Policy Consortium.
- Lanclos, Kent, Hector O. Zapata, and John G. Lee. 1990. "Regional Analysis of International Rice Demand." *Louisiana Rural Economist*, 52(4):2-6.
- Habeck, Michael H., Stephen B. Lovejoy, and John G. Lee. "Classical Biological Control of Insects: A Benefit-Cost Approach." Purdue Agricultural Economics Staff Paper #91-16, August 5, 1991.
- Hinson, Roger A., John G. Lee, and James E. Boudreaux. "A Risk Assessment of Selected Fresh Market Vegetables." Louisiana Agricultural Experiment Station Bulletin No. 829, October 1991.
- Lee, John G. and Stephen B. Lovejoy. 1991. "Economic Impacts of Reduced Fertilizer and Pesticide Use: A Complex Question." *Purdue Agricultural Economics Report*, Winter/Spring:4-5.

- Lovejoy, Stephen B. and John G. Lee. "Agricultural Production and Environmental Quality." In *Indiana Agriculture 2000: A Strategic Perspective*. EC-664, pp. 81-90, June 1992.
- Schiek, William A., Stephen B. Lovejoy, and John G. Lee. 1993. "Dairy Farmers Face More Environmental Regulation." *Hoards Dairyman*, 138(6):226.
- Lovejoy, Stephen B. and John G. Lee. "CRP in 1995: Fewer Acres, More Targeting?" Department of Agricultural Economics, Purdue University, Staff paper 95-2.
- Lee, John G. and Stephen B. Lovejoy. 1995. "Riparian Buffers: A 2,000,000 Acre Environmental Enhancement," Department of Agricultural Economics, Purdue University, Staff paper 95-8.
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- English, A. and J.G. Lee. Deer and Elk Farming in Indiana: Opportunities for Rural Communities. Purdue Agricultural Economics Report. June 2012, Pg. 5-8.

PUBLISHED ABSTRACTS:

The entire paper was reviewed by anonymous referees and selected by subject matter chairs for presentation at the annual meetings of the American, Western, and Southern Agricultural Economics Association.

- Lee, John G., John R. Ellis, and Ronald D. Lacewell. 1985. "On-Farm Value of Improved Irrigation Efficiency from an Exhaustible Groundwater Source." Abstract in *Southern Journal of Agricultural Economics*, 17(1):203.
- Lee, John G., John R. Ellis, Paul W. Teague, and Ronald D. Lacewell. 1985. "Implications of Dryland Crop Rotations on Profits and Wind Erosion in a Semi-Arid Environment." Abstract in *Western Journal of Agricultural Economics*, 10(2):429.
- Teague, Paul W., John G. Lee, and John R. Ellis. 1985. "A Method for Evaluating the Nature of Input Risk Over Different Levels of Input Use." Abstract in *Western Journal of Agricultural Economics*, 10(2):430.
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- Teague, Paul W., Bruce A. McCarl, John G. Lee, and John R. Ellis. 1986. "An Empirical Investigation of Output Variability, Nitrogen Use, and Input Risk." Abstract in *Southern Journal of Agricultural Economics*, 18(1):186.

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- Lee, John G., Hector O. Zapata, and Dwight K. Lanclos. 1990. "Measurement Error and Proxies: An Empirical Assessment." Abstract in *American Journal of Agricultural Economics*, 72(5):1365.
- Lanclos, Kent, Hector O. Zapata, and John G. Lee. 1991. "Estimation of Armington Trade Models." Abstract in *Southern Journal of Agricultural Economics*, 23(1):262.
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- Kanjilal, Barun, H.O. Zapata, John G. Lee, and Kent Lanclos. 1992. "Attenuation in a Trade Model." Abstract in *American Journal of Agricultural Economics*, 74(5):1294.
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- Humphrey, Ernest and John G. Lee. 1997. "A Broader Theoretical Basis for Variable Rate Fertilization: Incorporation of Spatial and Temporal Effects." Abstract in *American Journal of Agricultural Economics*, 79(5):1734.
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- Paarlberg, P.L., J.G. Lee, and J.S. Eales. "Trade Policy under Imperfect Competition: an Assessment of the TRQ on Lamb Meat," *Journal of Agricultural and Resource Economics*. 26,2:556, December 2001.
- Paarlberg, P.L., J.G. Lee, and A.H. Seitzinger. "The Potential Impact of an FMD Outbreak in the United States," *Journal of Agricultural and Resource Economics*. 28,2:655, December 2003.
- Paarlberg, P.L., A.H. Seitzinger, and J.G. Lee. "Economically Determined Livestock Disease Quarantine Zones," *Journal of Agricultural and Resource Economics*. 29,3:593, December 2004.

#### SELECTED PAPERS:

- Lee, John G., John R. Ellis, and Ronald D. Lacewell. "Valuation of Improved Irrigation Efficiency from Exhaustible Groundwater Sources." Selected paper at the 24th Annual Meeting of the Western Regional Science Association, San Diego, California, March 1-3, 1985.
- Brown, Deborah J., John G. Lee, and Stephen B. Lovejoy. "How Do Variations in Income Affect Adoption of a Reduced Tillage Practice?" Selected paper at the 40th Annual Meeting of the Soil Conservation Society, St. Louis, Missouri, August 5, 1985.
- Lacewell, Ronald D., John R. Ellis, and John G. Lee. "Policy Needs for the Transition from Irrigated to Dryland Crop Production." Presented at the Symposium of the Water Resources Committee of the Great Plains Agricultural Council, Causes and Consequences of the Transition to Dryland Agriculture, Denver, Colorado, October 29-31, 1985.
- Lacewell, Ronald D. and John G. Lee. "Transition to Dryland Agricultural Production: The Texas High Plains." Symposium on the Causes and Consequences of the Transition to Dryland Agriculture, Denver, Colorado, October 29-31, 1985.

- Lacewell, Ronald D., John R. Ellis, and John G. Lee. "The Declining Aquifer-Implications for Crop Production in the Future." Symposium on Managing for Survival. Amarillo, Texas, December 16, 1985.
- Lacewell, Ronald D. and John G. Lee. "Land and Water Management Issues: Texas High Plains." Presented at Workshop on Water and Arid Lands of the West, sponsored by the World Resources Institute, Tucson, Arizona, February 20-21, 1986.
- Lee, John G., Ronald D. Lacewell, Teofilo Ozuna, Jr., and Lonnie L. Jones. "Regional Impact of Urban Water Use on Irrigated Agriculture." Selected paper at the American Agricultural Economics Association meeting, Reno, Nevada, July 27-30, 1986.
- Lee, John G. and Ronald D. Lacewell. "Long Term Dryland Crop Rotation Profitability and Wind Erosion." Selected paper at the American Agricultural Economics Association Meeting, East Lansing, Michigan, August 2-5, 1987.
- Lee, John G., Kelly J. Bryant, and Ronald D. Lacewell. "Crop Rotation Selection versus Wind Erosion Susceptibility." Selected paper at the 43rd Annual Soil and Water Conservation Society meeting, Columbus, OH, July 31, 1988.
- Lacewell, Ronald D., John G. Lee, Charles W. Wendt, Robert J. Lascano, and J. Wayne Keeling. "Implications of Alternative Dryland Crop Rotations: Texas High Plains." Selected paper at the International Dryland Symposium, Amarillo, Texas, August 14-19, 1988.
- Chapman, Brian A. and John G. Lee. "Identification and Examination of an Economic Criteria for Assessing Expected Sugarcane Yields Within Specified Rotation Schemes." Selected paper at the Inter-American Sugarcane Seminar, Miami, Florida, September 21-23, 1988.
- Lee, John G. and Ronald D. Lacewell. "Irrigation from an Exhaustible Aquifer: Can it be Sustained?" Selected paper at the 28th Annual Meeting of the Western Regional Science Association, San Diego, California, February 19-23, 1989.
- Murphy, Robert, Alvin Schupp, and John G. Lee. "Economic Feasibility of Specialized Beef Processing in Louisiana." Selected paper at the 30th Annual meeting of the Food Distribution Research Society, Albuquerque, New Mexico, November 5-8, 1989.
- Mainali, B., K.J. Bryant, R.D. Lacewell, V.W. Benson, J.R. Williams, and J.G. Lee. Estimated Implications of Agricultural Practices on Profits and Water Quality: White River, Indiana." Selected paper at the Western Agricultural Economics Association meeting, Edmonton, Canada, July 19-21, 1993.
- "European Union Environmental Policy Threats to U.S. Coarse Grains Exports" Selected paper with L. Martin and J.G. Lee presented at the American Agricultural Economics Meetings, Toronto, Ontario, Canada. July 1997.

- “Economic Modeling of an FMD Outbreak in the United States.” Presented with J.G. Lee and A.H. Seitzinger at EU and US Policy Dialogue on BSE and FMD. University of Missouri-Columbia. April 2002.
- “The Potential Impact of an FMD Outbreak in the United States.” Presented with J.G. Lee and A. H. Seitzinger at *Economic Impact Analysis of Animal Health Outbreaks on U.S. Meat, Poultry, and Dairy*. Western Agricultural Economics Association Meetings, Denver, CO. July 2003.
- “Product Differentiation and Price Behavior in Corn with Identity Preserved Types.” Presented with A. Elbehri at the American Agricultural Economics Association annual meetings, Montreal, Quebec, Canada. July 2003.
- “Economic Modeling of Livestock Disease Outbreaks.” Presented with A.H. Seitzinger and J.G. Lee at The Department of Agricultural Economics, North Dakota State University, Fargo, ND. November 2003.
- “Economic Impact of BSE’s Presence in North America.” Presented with A.H. Seitzinger and J.G. Lee at the National Institute for Animal Agriculture Meetings, Salt Lake City, UT. April 2004.
- “The Economic Impact of BSE’s Presence in North America.” Presented with A.H. Seitzinger and J.G. Lee at the Washington State Bankers Association meetings, Chelan, WA. May 2004.
- “The Economic Impact of BSE’s Presence in North America.” Presented with A.H. Seitzinger and J.G. Lee at the Livestock Market Information Center Annual Technical Advisory Committee Meeting, Breckenridge, CO. June 2004.
- “The Economic Impact of BSE’s Presence in North America.” Presented with A.H. Seitzinger and J.G. Lee at the Department of Agricultural Economics, Kansas State University, Manhattan, KS. September 2004.
- “BSE Trade Restrictions and their Impacts on Livestock and Products.” Presented with J.G. Lee and A.H. Seitzinger at *The Economic Effects of Regulations to Prevent BSE in Cattle and Beef Industries*. American Agricultural Economics Association Annual Meeting, Providence, RI. July 2005.
- “Economic Impacts of Foreign Animal Disease.” Presented with A.H. Seitzinger, J.G. Lee, and K. Matthews at the Economic Research Service, U.S. Department of Agriculture, Washington, DC. October 2005.
- “Economic Transition in Eastern Germany.” Presented in the Department of Agricultural Economics, Purdue University, W. Lafayette, IN. October 2005.
- “Economic Impacts of Foreign Animal Disease.” Presented with A.H. Seitzinger, J.G. Lee, and K. Matthews at the International Agricultural Trade Research Consortium Annual Meeting, San Diego, CA. December 2005.

- “Economic Impacts of Select Foreign Animal Diseases.” Presented with Ann Hillberg Seitzinger, John G. Lee and Kenneth H. Matthews Jr. At The Economic Research Service, U.S. Department of Agriculture, Washington, DC. October 2006.
- “US Sugar Corp. Buyout and FL Everglades Restoration: Sweet Deal for Taxpayers?” A. Flaig, J. Lee, P. Paarlberg. At Soil and Water Conservation Society Meeting Detroit, MI, June 2009.
- “Improving Agricultural Irrigation on the Balkhab River, Afghanistan.” C. Reeling, J. Lee, G. Halimi. At the Applied Agricultural Economics Association meeting, Denver, CO, July 2010.
- “Dynamic Effects of Drought on the U.S. Livestock Sector.” A.M. Leister, J.G. Lee and P.L. Paarlberg. AAEA Meeting Washington D.C., August 2013.
- “Dynamic Effect of Drought on Cow/Calf Producers.” A.M. Leister, J.G. Lee and P.L. Paarlberg. WAEA meeting Monterey, CA. June 2013.
- Byrd, E.S., N.J.O Widmar and J.G. Lee. “US Consumer Awareness of Animal Diseases and Animal Health Requirements: Are We Meeting the Demands of the US Public? Poster at the Annual Joint Meeting of the American Dairy Science Association/American Society of Animal Science. Orlando, FL, July 2015.
- Byrd, E., N.J.O Widmar and J.G. Lee. 2015 “US Residents’ Awareness of Animal Diseases.” Center for Animal Science, Purdue University. White paper RP 2015-04.
- Byrd, E.S., N.J.O Widmar and J.G. Lee. “Willingness to Pay for Pork Chops and Chicken Breasts: Are Hunters Different? Presentation at Joint meeting with American Dairy Science Association/American Society of Animal Science. Orlando, FL, July, 2015.

### **Invited Lectures**

- “Import Restrictions in the Presence of a Health Risk: An Illustration Using FMD.” Department of Agricultural Economics, University of California-Davis. Davis, CA. April 1996.
- “Import Restrictions in the Presence of a Health Risk: An Illustration using Foot-and-Mouth Disease” Workshop on Technical Barriers to Trade. Economic Research Service, U.S. Department of Agriculture. Washington, DC. October 1997.
- “Implications of Multifunctionality for Developing Nations.” Presented with J.G. Lee and M. Bredahl at *The Developing Countries, Agricultural Trade, and the WTO*, International Agricultural Trade Research Consortium Organized Symposium. Whistler, British Columbia, Canada. June 2002.
- “Implementing Multifunctionality.” Presented with J.G. Lee and M. Bredahl at *Agricultural Policy Reform and the WTO: Where are we Heading?* International Agricultural Trade Research

Consortium Organized Symposium. Capri, Italy. June 2003.

- “Development of a Spatially Explicit Land Use/Economic Impact Assessment Model.” Presented with R.G. Thurau, A.D. Carver, J.C. Mangum, and J.G. Lee at the *14<sup>th</sup> Central Hardwood Forest Conference*. Wooster, Ohio. March 16-19, 2004.
- “Impacts of Livestock Disease on Producers, Consumers, and Trade.” Presented with A.H. Seitzinger, J.G. Lee, M. Petry, and K. Stone at the Department of Agricultural Economics, Purdue University, W. Lafayette, IN. April 2004.
- “A Spatially-Explicit Approach to Economic Impact Assessment Modeling: Applications in the Rural/Urban Interface.” Presented with R.G. Thurau, A.D. Carver, and J.G. Lee at the International Conference on Emerging Issues Along Urban/Rural Interfaces: Linking Science and Society. Atlanta, GA. March 13-16, 2004.
- “Economically Determined Livestock Disease Quarantine Zones.” Presented with A.H. Seitzinger and J.G. Lee at the Western Agricultural Economics Association annual meeting, Honolulu, HI. July 2004.
- “Comparison of Economic and Disease Criteria for Controlling Foot-and-Mouth Disease.” Presented by J.G. Lee and A.H. Seitzinger at the Western Agricultural Economics annual meetings, Anchorage, AK. June 2006.
- “Mitigating Trade Disruptions due to Disease Outbreaks in Integrated US and Canadian Swine and Pork Markets.” Presented with J.L. Grannis, K. Johnson, A.H. Seitzinger, and J.G. Lee at the Western Agricultural Economics Association annual meeting, Anchorage, AK. June 2006.
- “Economic Impacts of Regionalization of a High Pathogenic Avian Influenza Outbreak in the United States.” Presented with A.H. Seitzinger and J.G. Lee at the Southern Agricultural Economics Association annual meeting. Mobile, AL. February 2007.
- “The Impact of Water Allocation Rules and Policies on Crop Production, Subsistence Requirements and Agricultural Revenues within the Balkab River Basin Afghanistan.” Presented with A. Carver, C. Reeling and J. Lee at the 66<sup>th</sup> International Conference on Conservation, Science and Policy: Global Perspectives and Applications. Washington D.C. July 10-20 2011.
- “Economic Modeling for Land Use Decision Making in Working Rural Landscapes.” Presented with A. Carver, R. Thurau, and J. Lee at the Soil and Water Conservation Society annual meeting. Washington D.C. July 2011.
- “Improving Irrigated Agriculture in Afghanistan: A Canal Systems Approach.” J. Lee, C. Reeling and A. Carver. Presented at the UCOWR/NIWR Conference on Managing Water, Energy, and Food in an Uncertain World. Santa Fe, NM. July 17-19, 2012.
- “Panama: Hot, Wet and Wild.” John Lee. Department of Agriculture and Resource Economics Seminar, Colorado State University. Fort Collins, CO. October 24, 2012.

“Water, Wildlife and Development: Panama under Transition.” John Lee. USDA/APHIS/ Wildlife Services, Fort Collins, CO. October 26, 2012.

**Grants Received**

Duration of the Grant	Short Title	Source of Grant	Contract Amount	Co-investigators
<u>External</u>				
4/88-4/89	a/	American Sugar Cane League	\$ 13,500	---
1/89-1/90	b/	Southern Pesticide Impact Assessment	\$ 9,800	T.E. Reagan D.C. Rester
8/91-4/94	c/	U.S. Geologic Survey - Section 105 (Competitive Grant)	\$ 168,732	R. Lacewell (Sub-Contractor)
7/92-6/94	d/	U.S. Geologic Survey - Indiana Program	\$ 10,000	---
9/94-9/96	e/	USDA-NRI	\$ 267,698	G.R. Parker A. Spacie B.A. Engel
12/94-6/95	f/	USDA/FAS/DRD	\$ 29,181	J. Sanders
7/95-6/98	g/	USDA/NRI	\$ 69,952	P. Paarlberg
9/95-8/2000	h/	USDA-Special Water Quality	\$1,930,000	B.A. Engel S. Lovejoy
9/96-9/99	i/	USDA-CSREES	\$ 77,700	
9/97-9/99	j/	USDA-CSREES	\$ 157,000	S. Lovejoy
5/98-4/99	k/	USDA-FRA	\$ 25,000	B.A. Engel J. Frankenberger Yahner
9/98-8/2000	l/	USEPA-Region 5	\$ 175,000	D. Jones B. Engel J. Harbor
10/01-9/03	m/	USDA-CSREES	\$540,000	B. Engel
9/00-9/04	n/	USDA/IFAFS	\$4,140,215	U. Tenn Purdue U. Of Missouri
9/04-8/05	o/	USDA/NRCS	\$53,228	B. Engel

9/04-9/07	p/	ERS/PREISM	\$169,000	B. Engel P. Paarlberg A.H. Seitzinger
9/07-9/07	q/	ERS/PREISM	\$121,411	B. Engel P. Paarlberg A.H. Seitzinger
3/06-4/08	r/	USDA/APHIS	\$64,729	P. Paarlberg A.H. Seitzinger
9/07-9/08	s/	USDA/APHIS	\$56,000	P. Paarlberg A.H. Seitzinger
9/07-9/10	t/	USDA/NRCS	\$559,597	B. Engel I. Chahaubey J. Frankenberger
<u>Internal</u>				
1/91-12/93	u/	Purdue - Cross Roads	\$ 109,410	C. Dobbins
6/91-6/93	v/	AES Competitive Assistantship	\$ 20,000	---
9/94-6/96	w/	ARP Competitive Assistantship	\$ 24,000	---
9/97-8/99	x/	PRF Assistantship	\$ 23,332	P. Paarlberg
<b>Totals</b>			<b>\$8,814,485</b>	<b>---</b>

Title of Research Grants and Contracts:

- a/ Economic Cost Structure of Sugarcane Production in Louisiana
- b/ Damage Potential Assessment of the Yellow Sugarcane Aphid
- c/ Effect of Agricultural Practices on Surface Water Quality
- d/ Economic and Environmental Impacts of Policies Designed to Improve Rural Surface Water Quality in Indiana.
- e/ Decision Support for Planning Crop Production System on Family Farms
- f/ Agriculture's Impact on Rural Surface Water Quality
- g/ Integrating Trade and Environmental Policy: The Case of Asymmetric Externalities
- h/ A Spatial Decision Support System for Water Quality Management
- i/ SDSS Supplement: Impact of Precision Farming on Water Quality
- j/ SDSS Supplement: Web/GIS Decision Aids for Conservation Planning
- k/ WWW-based GIS for Community Planning and Economic Competitiveness. Fund for Rural America Center Proposal
- l/ GIS-based tool to Assist Communities Manage Urban Sprawl
- m/ Long term Impacts of Soil Conservation Investment
- n/ Sustaining Natural Resources on Private Lands in the Central Hardwood Region. Co-PI Purdue
- o/ Conservation Innovation Grant

- p/ Economic Impacts of Foreign Animal Diseases
- q/ Prioritization of Sanitary Restrictions Facing US. Exports of Bovine, Porcine and Ovine
- r/ Estimation of the Economic Impact of AI Under Alternative Trade Regulation Scenarios
- s/ Supplement to q/
- t/ Multi Objective Watershed Management Support System
- u/ Decision Support for Planning Crop Production Systems on Family Farms
- v/ Agriculture's Impact on Rural Surface Water Quality
- w/ The Economics of Precision Farming: An Assessment of Variable Rate Application Technology
- x/ Trade Restrictions Against the U.S. due to Health Risk: The Case of PRRS

## Teaching

Dr. Lee has sole administrative responsibility for AGEC 616 (Resource Economics and Policy). Graduate students in this Ph.D. level course are exposed to the underlying theory of resource economics and policy analysis as well as optimal control theory and dynamic programming problems of inter-temporal resource allocation. He also has teaching responsibilities for AGEC 604, an M.S./Ph.D. level applied welfare class. Students in this class are taught about various welfare measures (CV, EV, CS, PS, etc.), Pareto Optimality, and Theory of the Second Best. Dr. Lee had sole administrative responsibility for AGEC 4001 (Farm Records and Accounting) for the three semesters that he taught the course at Louisiana State University. This senior level course was designed to provide students hands-on applications with micro-computer software used in firm-level decision analysis and accounting. Starting in the spring of 2002, Dr. Lee taught AGEC 100 (Introduction to Agricultural Economics). This course has an enrollment of approximately 120 students per section. Beginning in the spring of 2007, Dr. Lee developed and has taught AGEC 204 (Introduction to Natural Resource Economics). This class serves not only students from the Department of Agricultural Economics but also students from Forestry and Natural Resources and the Natural Resource Environmental Science program.

## TEACHING EVALUATIONS

At Purdue University student ratings are based on a 1.0 - 5.0 scale with 5.00 as the best. The student ratings by class and year have been as follows for five core questions:

University Cafeteria Student Ratings Core Questions						
Year	Enrollment	Motiv.*	Explan.*	Assign.*	Course*	Instr.*
<u>AGEC616</u>						
1990	10	4.00	3.71	3.57	3.29	3.71
1991	12	4.40	4.30	4.30	3.80	4.11

1992	9	4.44	4.33	4.33	4.33	4.44
1993	7	4.67	4.50	4.17	4.17	4.64
1994	13	4.58	4.50	4.50	4.08	4.64
1996	8	4.30	4.70	4.50	4.50	4.50
1997	10	4.50	4.50	4.50	4.70	4.70
2000	8	4.90	4.80	4.90	4.80	4.90
2001	4	4.80	4.50	4.80	4.50	4.80
2003	7	4.9	4.80	4.90	4.80	4.90
2007	5	5.00	4.80	5.00	4.90	4.90
2010	11	4.90	4.70	4.70	4.80	4.90
2011	6	4.80	5.00	4.80	4.80	4.80
2012(CSU)	10	5.00	5.00	4.50	4.67	4.75
2014	8	4.90	4.90	4.90	4.90	4.90
2015	10	5.00	4.90	4.80	4.80	4.80

AGEC604

1993	14	4.62	4.64	4.29	4.29	4.64
1994	21	4.32	4.47	3.95	3.89	4.21
1995	10	4.40	4.20	4.20	3.70	4.30
1996	9	4.90	4.60	4.60	4.30	4.60
1997	12	4.80	4.20	4.50	4.30	4.50
1998	17	4.40	4.30	4.20	4.10	4.30
1999	11	4.60	4.60	4.70	4.90	4.80
2000	15	4.40	4.10	4.60	4.10	4.30
2001	15	5.00	4.50	4.80	4.40	4.80
2002	8	4.90	4.70	4.80	4.90	5.00
2003	12	4.80	4.30	4.50	4.10	4.60
2004	8	5.00	5.00	4.90	4.90	5.00
2005	17	4.90	4.70	4.60	4.80	4.90
2006	13	4.90	4.10	4.40	4.10	4.50

2007	16	4.90	4.40	4.60	4.80	5.00
2008	17	5.00	4.70	4.50	4.90	4.90
2009	14	4.80	4.30	4.20	4.60	4.60
2010	14	4.70	4.50	4.70	5.00	5.00
2011	9	4.80	4.60	4.50	4.60	4.90
2012	18	4.80	4.90	4.70	4.70	4.90
2014	15	5.00	4.60	4.40	4.40	4.80
2015	8	5.00	4.00	4.80	4.50	4.80
2016	18	4.90	4.60	4.80	4.80	4.90
2017	13	5.00	5.00	5.00	4.90	5.00
2018	8	5.00	4.00	4.80	4.80	4.80

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AGEC 100

2002S	39	4.80	4.40	4.70	4.30	4.90
2002F	96	4.70	4.20	4.40	4.20	4.70
2003S	33	4.70	4.40	4.30	4.10	4.90
2003F	109	4.80	4.70	4.80	4.50	4.90
2004S	27	4.80	4.40	4.70	4.40	4.90
2004F	89	4.70	4.40	4.30	4.50	4.90
2005S	31	4.80	4.60	4.40	4.80	4.90

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AGEC 204

2007	27	4.30	4.90	4.90	4.6	5.0
2008	31	4.90	5.00	5.00	4.2	4.9
2009	34	4.90	4.90	5.00	4.8	5.0
2010	35	4.90	5.00	5.00	4.3	4.8

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2011	34	4.70	5.00	4.90	4.80	5.00
2012(203& 204)	147	4.90	4.90	4.90	4.60	4.90
2014	47	4.90	4.80	4.80	4.50	4.80
2015	39	5.00	4.90	4.80	4.70	4.90
2016	51	4.80	4.70	4.80	4.40	4.90
2017	48	5.00	4.70	4.70	4.70	4.80
2018	56	4.90	4.80	4.80	4.80	4.90

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AGEC 203

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2016S	104	4.80	4.70	4.80	4.80	4.90
2016F	221	4.80	4.30	4.50	4.50	4.80
2017S	117	4.80	4.50	4.60	4.40	4.80
2017F	161	4.90	4.60	4.80	4.70	4.80
2018S	105	4.90	4.80	4.80	4.60	4.90

\* Questions:

- Motiv. My instructor motivates me to do my best work.
- Explan. My instructor explains difficult material clearly.
- Assign. Course assignments are interesting and stimulating.
- Course Overall, this course is among the best I have ever taken.
- Instr. Overall, this instructor is among the best I have known.

Undergraduate level at Louisiana State University. Student ratings on a 5.00 scale were as follows:

Items of Assessment	Instructor Rating (1988/1989)	Average Departmental Rating (1988/1989)	Average College Rating (1988/1989)
1. The course was well organized.	4.54/4.83	3.69/3.71	4.10/4.21
2. The instructor was effective in teaching the subject matter in this course.	4.54/5.00	3.75/3.66	4.08/4.20
3. My instructor motivates me to do my best work.	4.27/5.00	3.57/3.57	3.76/3.88

4. Overall, I would evaluate this course as excellent.	4.54/4.83	3.51/3.43	3.75/3.84
5. Overall, this instructor is among the best teachers I have known.	4.64/5.00	3.54/3.30	3.60/3.76

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(Evaluations of this type were not available in 1987.)

Contributions to Course and Curriculum Development:

I have significantly revised the Resource Economics and Policy course (AGEC 616). The revised course includes an extensive review of natural resource theory, an application section stressing optimal control theory and dynamic programming applications to resource and production problems. Graduate students completing the course also have an understanding of how resource economics relates to the body of economic thought as well as an understanding of current research methods used to evaluate optimal intertemporal resource allocation questions.

I began teaching Fundamentals of Applied Welfare Analysis (AGEC 604) in the spring of 1993. I have restructured the course to emphasize the relationship between microeconomic theory and appropriate welfare measures. Graduate students in this course are also exposed to the analytics of welfare maximization, theory related to public goods, property rights, and the theory of the second best. This course has attracted graduate students from interdisciplinary engineering, pharmacy, forestry and natural resources, as well as agricultural economics.

I began teaching Introduction to Agricultural Economics (AGEC 100) in the spring of 2002. I made several revisions to the course content. Teaching evaluations for the course were extremely strong. I was replaced in teaching this class while I was participating in a study in a second discipline. As a consequence, I have developed a new course entitled Introduction to Natural Resource Economics and Environmental Policy (AGEC 204) which has been taught since 2007. In the Spring of 2016, I was asked to teach both in the Spring and Fall, AGEC 203 which is on Introduction to Agricultural Economics course.

While at Louisiana State University I developed two new courses for the revised undergraduate curriculum. The first course, AGEC 4303 (Production Economics), was designed to introduce junior/senior level undergraduate students to the basic principles of production economics and the relationship of the agricultural production sector to the general economy. The second course, AGEC 4103 (Risk Management in Agriculture), was designed to provide upper level undergraduates in agricultural economics and agribusiness a basic understanding of risk management theory and techniques with applications to firms in the agricultural sector.

## Service Activities:

I advise between 20-25 undergraduate students per year. I enjoy interacting with our undergraduates because it provides feedback on our program as well as an opportunity to talk with students about their professional goals.

Although I do not have an official extension appointment, I have participated in extension education activities at Purdue. These activities include presentations to the "Land Use Team" on methods to identify prime farmland for preservation. I also presented a program on "Using GIS and Economics for Area Planning" during a recent extension educator training session. I have also presented a program to 250 people at the annual meeting of the Indiana Department of Natural Resources on "Incorporating Non-market Values in Natural Resource Management Plans." The focus of this presentation was to illustrate how economic criteria could be integrated into wildlife management plans for state parks.

Additional recent extension education includes economic assessment of wind power development in Indiana. This assessment includes estimating the economic impact on the county tax base, school corporation funding and cost of alternative tax abatement proposals.

I also serve as the only academic member of the governor's newly formed Water Resources Task Force. This group was established in 2009 to study and make policy recommendations related to water resource availability as an economic and environmental necessity for the future of Indiana.

## REFERENCES

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