

Dayton Lambert's research focuses on the development of models to understand the dynamics of spatial economies, trends in migration, land use change, industry clustering, and business location decisions as they pertain to increasing income and wellbeing in rural areas in particular and regional development in general. Dr. Lambert has researched farm participation in working land and land retirement conservation programs, producer response to higher energy prices, farm household linkages to rural communities, technology adoption, and commodity demand systems. In addition to working intensively with complex survey designs, he has also developed of statistical estimators for stratified surveys, and is an expert in spatial econometrics and modeling regional economies. He also teaches an undergraduate class in rural economic development and agricultural policy.

Current Position:

Associate Professor, Agricultural and Resource Economics, University of Tennessee

Education:

Ph.D. Agricultural Economics, Purdue University, 2005

M.S. Fisheries and Allied Aquaculture, Auburn University, 1998

M.A. Cultural Anthropology, Rutgers University, 1991

Professional Experience:

Associate Professor, Dept. of Agricultural and Resource Economics, University of Tennessee, 2011-Present.

Assistant Professor, Dept. of Agricultural and Resource Economics, University of Tennessee, 2006-2011.

Economist, USDA Economic Research Service, 2005-2006

Graduate Research Assistant, Department of Dept. of Agricultural, Purdue University, 2000 - 2005.

Associate Program Director, United States Peace Corp, Libreville, Gabon, 1999-2000

Current Projects:

2010. Livingston, M. and D.M. Lambert. "Impacts of the Adoption of Nutrient Management Practices and Tillage Systems on Production Costs." ERS/USDA, 2010 - 2011.

2010. Clark, CD & DM Lambert. "Socioeconomic Dimensions of Water Availability in the Southeastern United States." U.S. Geological Survey, 2010-2011.

2010. Clark, CD & DM Lambert. "Simulation Models of Biomass Production for Bioenergy Crops." Oak Ridge National Laboratory, 2011.

2010. English, BC, MA McClure, JA Larson, DM Lambert, CD Clark, & CL Main. "The Effects of Occasional Flooding on Tennessee Agricultural Lands," Tennessee Valley Authority, 2011 - 2012.

2010. Jensen, KL, CD Clark, DM Lambert, BC English, CM Hellwinckel, J Larson & E Yu. "Consumer and Producer Attitudes Toward GHG Reduction Strategies in Beef Production," USDA NIFA AFRI, 2011-2013.

2010. Velandia, M., D.M. Lambert, C.D. Clark, M.D. Wilcox, & A. Wszelaki. "Locally Grown Produce: A Market Opportunity for Fruit and Vegetable Farmers in Tennessee." Ag Research and Extension Innovation Fund, UT Ag Research, 2010-2011.

2010. Eash, N., Walker, F. R. Walker, and M. Wilcox, D. Lambert. "Developing Sustainable Conservation Agricultural Production Systems for Smallholder Farmers in So. Africa," USAID, 2010-2015.

2010. Cho, S. D. Lambert, R. Roberts. "Moderating Urban Sprawl through a Two-Rate Property," Tax Lincoln Institute 1/2010 – 12/2011.

2009. Walker, F. R., S. Hawkins, C.D. Clark, A.C. Layton, & D.M. Lambert. "Enhancing Water Quality in Tennessee's Oostanaula Watershed: An Integrated Approach Towards Understanding Adoption and Efficacy of BMPs," CSREES/USDA, 2009-2012.

2009. R. K. Roberts, J. A. Larson, M. Velandia, D. Lambert and B. C. English. Cotton Incorporated. Extension of Cotton Incorporated Project 07-131, "Economics of Precision Farming Working Group—Tennessee: Project 07-131".

Awards and Other Professional Activities:

Helios Award for Outstanding Research, United States Department of Agriculture-Economic Research Service; American Association of Retirement Communities Research Award; Certificate of Merit and Accomplishment, United States Department of Agriculture; Gamma Sigma Delta Graduate School Honor Society of Agriculture, Auburn (1998) and Purdue (2002).

Selected Publications:

Lambert, D.M. 2011. Maximum Empirical Likelihood Estimation of the Spatial Lag Autoregressive Model. In Progress in Economics Research, Volume 25, A. Tavidze, editor, pp. [forthcoming]. Nova Science Publishers, New York.

Xu, W., and D.M. Lambert. 2011. Business Establishment Growth in the Appalachian Region, 2000-2007: An Application of Smooth Transition Spatial Process Models. Journal of Agricultural and Applied Economics, forthcoming.

Monchuk, D., D. Hayes, J. Miranowski, and D.M. Lambert. 2011. Inference Based on Alternative Bootstrapping Methods in Spatial Models with an Application to County Income Growth in the United States. Journal of Regional Science, forthcoming.

Stewart, L., and D.M. Lambert. 2011. Spatial Heterogeneity of Factors Determining Ethanol Production Site Selection in the U.S., 2000-2007. Biomass and Bioenergy, 35(3): 1273 – 1285.

Mishra, A., D.M. Lambert, B.C. English, J.A. Larson, R.K. Roberts, S. Martin, M. Marra, J. Reeves, S. Larkin. 2011. Intensity of Precision Agriculture Technology Adoption by Cotton Producers. Agricultural and Resource Economics Review, forthcoming.

Lambert, D.M., C.D. Clark, M.D. Wilcox, and S. Cho. 2011. Distance, Density, Local Amenities, and Suburban Development Preferences in a Rapidly Growing East Tennessee County. Agriculture and Human Values, forthcoming.

Lambert, D.M. 2011. Perspectives on Spatial Data Analysis: Book Review, Papers in Regional Science, forthcoming.

Velandia, M., D.M. Lambert, J. Fox, J.C. Walton, E. K. Sanford, and R.K. Roberts. 2010. Intent to Continue Growing Switchgrass as a Dedicated Energy Crop: A Survey of Switchgrass Producers in East Tennessee. *European Journal of Social Sciences* 15(3), forthcoming.

Lambert, D.M., J. Brown, and R.J.G.M. Florax. 2010. A Two-step Estimator for a Spatial Lag Model of Counts: Theory, Small Sample Performance and an Application. *Regional Science and Urban Economics*, 40: 241 – 252.

Lambert, D.M. 2010. Geography, Structural Change, and Economic Development: Theory and Empirics: Book Review, *Review of Regional Studies*, 39(1): 111 – 119.

Velandia, M., D.M. Lambert, A. Jenkins, R.K. Roberts, J.A. Larson, B.C. English, and S.W. Martin. 2010. Precision Farming Information Sources Used by Cotton Farmers and Implications for Extension. *Journal of Extension*, forthcoming.

Walton, J.C., R.K. Roberts, D.M. Lambert, J.A. Larson, B.C. English, S.L. Larkin, S.W. Martin, M.C. Marra, K.W. Paxton, and J.M. Reeves. 2010. Grid Soil Sampling Adoption and Abandonment in Cotton Production. *Precision Agriculture*, 11: 135 – 147.

Walton, J. C., J. A. Larson, R. K. Roberts, D.M. Lambert, B. C. English, S. L. Larkin, M. C. Marra, S. W. Martin, K. W. Paxton, and J. M. Reeves. 2010. Factors Influencing Farmer Adoption of Portable Computers For Site-Specific Management: A Case Study for Cotton Production. *Journal of Agriculture and Applied Economics*, 42(2): 193 – 209.

Cho, S., D.M. Lambert, and R.K. Roberts. 2010. Forecasting Open Space with a Two-Rate Property Tax. *Land Economics*, 86(2): 261 – 280.

Lambert, D.M., T. R. Wojan, and P. Sullivan. 2009. Farm Business and Household Expenditure Patterns and Local Communities: Evidence from a National Farm Survey. *Review of Agricultural Economics*, 31(3): 604 – 626.

Lambert, D.M., and K. T. McNamara. 2009. Location Determinants of Food Manufacturers in the U.S., 2000 – 2004: Are Nonmetropolitan Counties Competitive? *Agricultural Economics*, 40(6): 617 – 630.

Stewart, L., D.M. Lambert, M. D. Wilcox, and B. C. English. 2009. Tennessee Agriculture and Forestry Industry Clusters and Economic Performance, 2000 – 2006. *Journal of Agriculture and Resource Economics*, 34(1): 172 – 195.

Schaible, G., D.M. Lambert, C.S. Kim, and S. Stefanova. 2009. Structural Conservation Practices in U.S. Wheat Production: A Cost-Function Technology Adoption Approach. *Journal of Natural Resources Policy Research*, 1(2): 167 – 188.

Lambert, D.M., and S. Cho. 2008. Forecasting Input Demand Shocks on China's Gross Value of Agricultural Output. *Review of Regional Studies*, 38: 343 – 359.

- Walton, J. C., D.M. Lambert, R. K. Roberts, J. A. Larson, B. C. English, S. L. Larkin, S. W. Martin, M. C. Marra, K.W. Paxton, and J. M. Reeves. 2008. Adoption and Abandonment of Precision Soil Sampling in Cotton Production. *Journal of Agricultural and Resource Economics*, 33(3): 428 – 448.
- Lambert, D.M., M. Wilcox, A. English, and L. Stewart. 2008. Ethanol Plant Location Determinants and County Comparative Advantage. *Journal of Agriculture and Applied Economics*, 40(1): 117 – 135.
- Grant, J.H., and D.M. Lambert. 2008. Do Regional Trade Agreements Increase Agricultural Trade? *American Journal of Agricultural Economics*, 90(3): 765 – 782.
- Chang, H. H., D.M. Lambert, and A. Mishra. 2008. Does Participation in the Conservation Reserve Program Impact the Economic Well-being of Farm Households? *Agricultural Economics*, 38: 201 – 212.
- Lambert, D.M., P. Sullivan, and R. Claassen. 2007. Working Farm Participation and Acreage Enrollment in the CRP. *Journal of Agriculture and Applied Economics*, 39(1): 151 – 169.
- Lambert, D.M., G. Schaible, R. Johansson, and U. Vasavada. 2007. The Value of Integrated CEAP-ARMS Survey Data in Conservation Program Analysis. *Journal of Soil and Water Conservation*, 62(1): 1 – 10.
- Lambert, D.M., P. Sullivan, R. Claassen, and L. Foreman. 2007. Profiles of U.S. Farm Households Adopting Conservation-Compatible Practices. *Land Use Policy*, 24: 72 – 88.
- Lambert, D.M., J. Lowenberg-DeBoer, and G.M. Malzer. 2007. Managing Phosphorous Soil Dynamics Over Space and Time. *Agricultural Economics*, 37: 43 – 53.
- Lambert, D.M., J. Lowenberg-DeBoer, and G.M. Malzer. 2007. Site-Specific Management of Nitrogen and Phosphorus in a Corn/Soybean Rotation. *Better Crops*, 91(1): 4 – 5.
- Bongiovanni, R.G., C.W. Robledo, and D.M. Lambert. 2007. Economics of Site-specific Nitrogen Management for Protein Content in Wheat. *Computers and Electronics in Agriculture*, 58: 13 – 24.
- Daberkow, S., D.M. Lambert, and W. Musser. 2007. U.S. Corn Producer's Response to Increased Energy Prices: Evidence from Producers Surveys in 2001 – 2005. *Western Economics Forum*, 6(1): 14 – 27.
- Lambert, D.M., K. McNamara, and M. Garret. 2006. Food Industry Investment Flows: Implications for Rural Development. *Review of Regional Studies*, 36(2): 140 – 162.
- Lambert, D.M., K. McNamara, and M. Garret. 2006. An Application of Spatial Poisson Models to Manufacturing Investment Location Analysis. *Journal of Agriculture and Applied Economics*, 38(1): 102 – 115.
- Lambert, D.M., P. Sullivan, and R. Claassen. 2006. Land Retirement and Working-land Conservation Structures: A Look at Farmers' Choices. *Amber Waves*, 4(3): 16 – 21.

Lambert, D.M., P. Sullivan, R. Claassen, and L. Foreman. 2006. Use of Conservation-Compatible Practices Varies by Farm Type. *Amber Waves*, 4(1): 7.

Lambert, D.M., J. Lowenberg-DeBoer, and G.M. Malzer. 2006. Economic Analysis of Spatial-Temporal Patterns in Corn and Soybean Response to Nitrogen and Phosphorous. *Agronomy Journal*, 98(1): 43 – 54.

Lambert, D.M., J. Lowenberg-DeBoer, and R. Bongiovanni. 2004. A Comparison of Four Spatial Regression Models for Yield Monitor Data: A Case Study From Argentina. *Precision Agriculture*, 5: 579 – 600.

Langyintuo, A.S., J. Lowenberg-DeBoer, M. Faye, D.M. Lambert, G. Ibro, B. Moussa, A. Kergna, S. Kushwaha, S. Musa, and G. Ntougam. 2003. Cowpea Supply and Demand in West and Central Africa. *Field Crops Research*, 82: 215–231.

Lambert, D.M., and Jess Lowenberg-DeBoer. 2003. Economic Analysis of Row Spacing for Corn and Soybean. *Agronomy Journal*, 95: 564 – 573.

Lambert, D.M., B.J. Argue, Z. Liu, and R.A. Dunham. 1999. Effects of Seasonal Variations, Thyroid and Steroid Hormones, and Carp Pituitary Extract on the Artificial Production of Channel Catfish (*Ictalurus punctatus*) x Blue Catfish (*I. furcatus*) Hybrids. *Journal of the World Aquaculture Society*, 30(1): 80 – 89.

Griffin, T.W., D.M. Lambert, and J. Lowenberg-DeBoer. 2005. Economics of GPS Lightbar Navigation and Auto-Guidance Technologies. In *Precision Agriculture-2005*, John Stafford, editor, pp. 581-587, Wageningen Academic Publishers: The Netherlands.

Lowenberg-DeBoer, J., D.M. Lambert, and R. Bongiovanni. 2003. Appropriate On-farm Trial Designs for Precision Farming. In *Precision Agriculture-2003*, John Stafford and Armin Werner, editors, pp 361-367. Wageningen Academic Publishers: The Netherlands.