

Curriculum vita

Douglas G. Tiffany
Research Fellow

Master of Science, Agricultural Economics, June 1977, University of Minnesota

Bachelor of Science with distinction, Agricultural Economics, June 1974,
University of Minnesota

Professional Experience

- 2002-2003 Research Fellow, Department of Applied Economics
 - Factors Associated with Success of Fuel Ethanol Producers
 - Development of Biodiesel Policy Analysis Tool
- 2001-2002 Senior Fellow, Endowed Chair in Agricultural Systems, College of Agricultural,
 Food and Environmental Sciences, University of Minnesota
 -Alternative Fuels Production, U.S. and Minnesota Perspectives
 -Agricultural Energy Use by Minnesota Agriculture
- 1994-2001 Research Fellow, Department of Applied Economics
 -Biodiesel Mandate for Minnesota Fuels
 - Minnesota Grain Flow Study
 - Survey and Economic Analysis of Precision Ag. Technologies
 - Economic Evaluation of Non-Point Phosphorous Abatement Techniques
 - Minnesota Agricultural Energy Use and Carbon Tax Incidence
 - Minnesota Agri-Power Project
 - Feedlot Effects on Rural Residences Project
 - Economic Feasibility of Biodiesel in Underground Mines
 - Woody Biomass Project
 - Alfalfa Biomass Feasibility Study
- 1990-1993 Self-employed farmer, consultant
 -Producer and marketer of fresh produce
 -Appraiser of real estate
- 1986-1990 Farm Credit Banks of St. Paul, St. Paul, MN
 -Marketing Project Manager 10/89-12/89
 -Appraisal Standards Specialist 1/88-9/89
 -Senior Appraiser 10/86-12/87

- 1984-1986 Self-employed farmer, appraiser
 -Producer of agronomic and vegetable crops in Redwood County, MN
 -Appraiser of farm and residential properties for estate, condemnation,
 and mortgage defaults
- 1977-1984 Minnesota Department of Revenue, St. Paul, MN
 -Farmland Economist, Minerals Taxation 1980-1984
 -Senior Research Analyst 1978-1980
 -Contract Consultant 1977-1978

Major Past Teaching Responsibilities

Presented numerous lectures on the alternative fuels of biodiesel and ethanol while Endowed Chair in Agricultural Systems. Presented research on carbon emissions caused by Minnesota agriculture and first stage processing industries.

Presented numerous lectures on livestock consumption levels and shipment patterns for Minnesota crops.

Presented lectures on precision agriculture to Minnesota soybean producers and U of M students.

Developed five-day class on rural residential appraisal for bank personnel.

Wrote, directed, and acted in three training films on the appraisal of farm real estate, farm machinery, and livestock.

Taught University of Minnesota Extension Short Courses on farm real estate valuation for three years.

Major Past Research Responsibilities

Developed methodology, conducted supporting economic survey on farm land values, and implemented new state law responsible for the annual distribution of \$60 million per year.

Developed methodology and published bulletin to help appraisers and assessors improve the accuracy of their work by showing them how to adjust for terms in contract for deed transfers.

Analyzed fiscal impacts for proposed tax legislation relating to farm real estate and iron ore and testified for Minnesota Legislative Committees.

Other Accomplishments

Developed concept and led project development team for a new bank product involving reverse mortgages for farmland.

Developed landowner decision tool to analyze economic returns of producing woody biomass crops on Conservation Reserve Program lands in western Minnesota

Provided analysis of land value changes for purposes of collateral monitoring for banking systems with real estate loan volume of \$6 billion in four states.

Invented circular slide rule to help farmers adjust protein levels in a profit-maximizing fashion for various growth stages amid changes in feed prices and swine margins.

Publications

- Tiffany, Douglas G. and Vernon R. Eidman. "Factors Associated with Success of Fuel Ethanol Producers." Staff Paper P03-7, Department of Applied Economics, University of Minnesota, August 2003.
- Tiffany, Douglas G. "Growth of Alternative Fuels: Minnesota and U.S. Perspectives." Presented Joint University of Minnesota, University of Padova, and University of Bologna Conference, August 26, 2002.
- Fruin, Jerry and Douglas G. Tiffany. "Where Does Minnesota's Grain Crop Go? An Analysis of Minnesota Elevator Grain Shipments for the Period 7/99-6/00." Staff Paper P02-9, Department of Applied Economics, University of Minnesota, September 2002.
- Tiffany, Douglas G. "Biodiesel: A Policy Choice for Minnesota." Staff Paper P01-04, Department of Applied Economics, University of Minnesota, May 2001.
- Tiffany, Douglas G. "Biodiesel Mandate: Economic Considerations for Minnesota." Testimony Presented to Minnesota House of Representatives Committee on Transportation Policy, April 10, 2001.
- Tiffany, Douglas G. and Jerry Fruin. "Filling the Feed Troughs of Minnesota." *Minnesota Ag Economist*, Department of Applied Economics, University of Minnesota, October 2000.
- Tiffany, Douglas G., Vernon Eidman, and Karl Foord. "Evaluating the Economics of Precision Agriculture Technologies." Proceedings of Fourth International Precision Agriculture Conference, University of Minnesota, 2000.
- Tiffany, Douglas G. and Dwight Aakre. "Farm-level Effects: The Kyoto Accord in Minnesota and the Dakotas." North Dakota Industrial Commission, May 1999.
- Tiffany, Douglas G. and Dwight Aakre. "South Dakota Farm Energy Use and the Kyoto Accord." North Dakota Industrial Commission. May 1999.
- Tiffany, Douglas G. and Dwight Aakre. "North Dakota Farm Energy Use and the Kyoto Accord." North Dakota Industrial Commission. May 1999.
- Tiffany, Douglas G. and Dwight Aakre. "Minnesota Farm Energy Use and the Kyoto Accord." North Dakota Industrial Commission, May 1999.
- Tiffany, Douglas G. "Economic Comparison: Alfalfa Biomass Rotation vs. Corn/Soybean Rotation." *BioEnergy '98: Proceedings Volume 2* (October 1998):1058-65.
- Fruin, Jerry, and Douglas G. Tiffany. "Economic Analysis of Biodiesel Usage in Underground

- Mines.” *Bioenergy '98 Proceedings Volume 2* (October 1998):922-32.
- Ryan, Barry and Douglas G. Tiffany. "Minnesota Agricultural Energy Use and the Incidence of a Carbon Tax.” *Bioenergy '98 Proceedings Volume 1* (October 1998):55-65.
- Ryan, Barry and Douglas G. Tiffany. " Energy in Minnesota Agriculture: Farm Level through First Processor.” *Minnesota Agricultural Economist* No. 693 (Fall 1998):1, 4-7.
- Tiffany, Douglas G. "Production Risk of Alfalfa Compared to Corn.” Minnesota Forage and Grassland Council. *Minnesota Forage-Update* Vol. XXIII, No.5 (Winter 1998):6, 8.
- Ryan, Barry and Douglas G. Tiffany. "Minnesota Agricultural Energy Use and the Incidence of a Carbon Tax.” Minneapolis, MN: Institute for Local Self-Reliance, February 1998, 38p.
- Tiffany, Douglas G. “Considerations: Inventory Control Software.” *Minnesota Agri-Power Report*, Center for Alternative Plant and Animal Products, University of Minnesota. February 1998, 5p.
- Tiffany, Douglas G., Asitha Sandanayake, and Jerry Fruin. "Record Locations of Current Feedstock Production.” *Minnesota Agri-Power Report*, Center for Alternative Plant and Animal Products, University of Minnesota, February 1998, 6p.
- Tiffany, Douglas G., and Jerry Fruin. "Analyze Various Transportation and Storage Models.” *Minnesota Agri-Power Report*, Center for Alternative Plant and Animal Products, University of Minnesota, February 1998, 2p.
- Tiffany, Douglas G., and Jerry Fruin. "Evaluation of Domestic Markets for Alfalfa Leaf Meal.” *Minnesota Agri-Power Report*, Center for Alternative Plant and Animal Products, University of Minnesota, February 1998, 11p.
- Tiffany, Douglas G., and Jerry Fruin. "Evaluation of International Market Opportunities.” *Minnesota Agri-Power Report*, Center for Alternative Plant and Animal Products, University of Minnesota.
- Tiffany, Douglas G., and Jerry Fruin. "Sensitivity Analysis of Total System Performance.” *Minnesota Agri-Power Report*, Center for Alternative Plant and Animal Products, University of Minnesota,. February 1998.
- Tiffany, Douglas G. and Jerry Fruin. "Production Risk: Appreciating Yield Variations.” *Minnesota Agri-Power Report*, Center for Alternative Plant and Animal Products, University of Minnesota, February 1998.
- Tiffany, Douglas G. "Alfalfa Economics Look Great; But There Are Other Benefits Too!" Minnesota Forage and Grassland Council, St. Paul, MN. *Minnesota Forage Update*

Vol.XXII, No. 5, Fall 1997.

- Tiffany, Douglas G. "Alfalfa: Cash Crop for Minnesota." *Proceeding of the 22nd Annual Minnesota Forage Conference*, Department of Applied Economics, University of Minnesota, February 1997, pp.84-90.
- Sheaffer, Craig C. and Douglas G. Tiffany. "Alfalfa Production for Biomass." *Proceeding of the 22nd Annual Minnesota Forage Conference*, Dept. of Agronomy and Plant Genetics & Dept. of Applied Economics, University of Minnesota, February 1997, pp.14-20.
- Bickel, Kenneth L., Joseph McDonald, Jerry E. Fruin, and Douglas G. Tiffany. *Economic Comparison of Biodiesel Blends to Commercially Available Exhaust Emission Reduction Technologies for Underground Mines*. Final Report to the National Biodiesel Board. University of Minnesota, January 1997.
- Taff, Steven J., Douglas G. Tiffany, and Sanford Weisberg. "Measured Effects of Feedlots on Residential Property Values in Minnesota: A Report to the Legislature." Staff Paper P96-12, Dept. of Applied Economics, University of Minnesota, July 1996.
- Fruin, Jerry E., Douglas G. Tiffany, and David Schmidt. "An Economic Comparison of the Green Plant Combine System with Conventional Alfalfa Harvest Methods." *Proceedings of the 20th Annual Minnesota Forage Conference*, January 1995.
- Tiffany, Douglas G., Jerry E. Fruin. "Harvest Losses: Mechanical, Respiration, and Rainfall." Center for Alternative Plant and Animal Products, University of Minnesota. *Sustainable Biomass Energy Production*. February 1995.
- Tiffany, Douglas G. and John Moncrief. "Production Regions." Center for Alternative Plant and Animal Products, University of Minnesota. *Sustainable Biomass Energy Production*. February 1995.
- Tiffany, Douglas G. "Pro Forma Budgets by Region." Center for Alternative Plant and Animal Products, University of Minnesota. *Sustainable Biomass Energy Production*. February 1995.
- Tiffany, Douglas G. "Evaluating Contract for Deed Transfers." Minnesota Department of Revenue, Tax Research Division, October 1980.
- Tiffany, Douglas G. "Economic Ration Formulation for Growing and Finishing Swine." Plan B Project Paper, Department of Agricultural and Applied Economics, University of Minnesota, April 1977.