

MICHAEL A. BOLAND

Abbreviated Vitae – September 5, 2017

OFFICE ADDRESS

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Education

Ph.D. Agricultural Economics, Purdue University, West Lafayette, IN. Graduated 1996.

M.S. Agricultural Economics, Purdue University, West Lafayette, IN. Graduated 1991.

M.Ed. Agricultural Education, University of Minnesota, St. Paul, MN. Graduated 1990.

B.A. Business Administration, University of St. Thomas, St. Paul, MN. Graduated cum laude 1986.

Professional Experience

Professor of Agricultural Economics and E. Fred Koller endowed chair in agribusiness management and information technology, University of Minnesota, August 30th, 2010 to present.

Adjunct Professor, University of Minnesota, Law School and Carlson School of Management, September 2014 to present.

Undergraduate Coordinator, Agricultural and Food Business Management degree program, University of Minnesota, 2013 to 2016.

Director, The Food Industry Center, University of Minnesota, July 1, 2011 to present.

Adjunct Professor, Kansas State University, 2010 to present

Visiting Lecturer, Zamorano University, 2005 to present.

Visiting Lecturer, International University of Ecuador, 2004 to 2010.

Professor of Agricultural Economics, Kansas State University, June 12, 2005 – August 26, 2010.

University Distinguished Teaching Scholar, Kansas State University, January 2005 - August 26, 2010.

Visiting Professor, Montana State University, July - December 2001.

Associate Professor of Agricultural Economics (with tenure), Kansas State University, June 25, 2001 – June 2005.

Associate Director of Arthur Capper Cooperative Center, Kansas State University, 2000 – present.

Assistant Professor of Agricultural Economics, Kansas State University, June 30, 1996 - June 24, 2001.

Extension Assistant, Purdue University, January 1996 - June 29, 1996.

Director of Education and Consultant, Minnesota Association of Cooperatives, 1988 - 1990.

Assistant Branch Manager, Farmers Union Cooperative Oil Association, 1983 - 1987.

Selected National Leadership Activities

National Grocers Association, Industry-University Coalition, 2012 to present.

Minnesota Ag Safety Director Program, 2014 to present.

Agricultural and Applied Economics Association Board of Directors, 2013 to 2016.

Council on Food, Agriculture, and Resource Economics (C-FARE), 2013 to 2015.

DuPont Safety Culture Program with Cooperatives, 2010-2014.

USDA International Agribusiness Competitiveness Task Force, 2008 to 2012.

International Agribusiness Case Studies, 2008 to 2010. Co-editor of a book entitled *International Agribusiness Case Studies in Honor of Professor Ray Goldberg*.

AAEA Teaching, Learning, and Communication Section, 2006 to 2009. Served as co-chair elect (2006), co-chair (2007-08), and immediate past co-chair (2009) and helped create The Teaching Academy.

Farmer Cooperatives Planning Committee, 1998 to present.

Western Agricultural Economics Association, 2001 to 2010. I was elected Vice-President of the WAEA in 2006-07, President for 2009-10, past-President in 2010-11.

Galbraith Forum Committee, agribusiness representative, 2005. Served as chair of the 2005 Galbraith Forum for the American Agricultural Economics Association (AAEA), which included preparing nomination materials for Dr. Michael Porter of Harvard University.

USDA National Food and Agribusiness Management Education Commission (Co-chair with Jay Akridge), 2003 to 2006. (www.agecon.purdue.edu/cab/NFAMEC/home.htm).

Individual Awards

UMN CFANS Alumni Association Distinguished Faculty award, 2017.

CFANS Distinguished Teaching Award, 2017.

Choices Outstanding Article, Honorable Mention (with M. Hanson, A. Keller, and W. Lazarus), 2017

International Education Award, Kansas State University, 2009.

College of Agriculture Advisor of the Year Award (chosen by students), 2009.

APEX Award, Purdue University, 2009.

Outstanding Undergraduate Teaching Award (More than 10 Years' Experience), American Agricultural Economics Association, 2009.
Recognition of Merit, Zamorano University, 2008.
U.S. Department of Agriculture Outstanding Teacher Award, regional winner, 2008.
Outstanding Case Study Award, Brazilian Academy of Management, 2007.
Rabobank Fellow in Agribusiness Co-operation, 2005.
University Distinguished Teaching Scholar, Kansas State University, 2005.
David Mugler Distinguished Ag Faculty Award, K-State Ag Alumni Association, 2003.
Faculty of the Semester, College of Agriculture, Kansas State University, fall 2001.
Outstanding Undergraduate Teaching Award (Less than 10 Years' Experience), American Agricultural Economics Association, 2001.
Extraordinary Teacher Citation, College of Agriculture, 2001.
Outstanding Undergraduate Teaching Award (Less than 10 Years' Experience), Western Agricultural Economics Association, 2001.
Presidential Award for Excellence in Undergraduate Teaching, 2001
Outstanding Undergraduate Teacher, Gamma Sigma Delta, Kansas State University, 2001.
NACTA Teaching Fellow, 2000.
College of Agriculture Teacher of the Semester, fall 1997.
Business Excellence Award: Community Service, University of St. Thomas Business Alumni Association, 1996.

Team Awards

K-State Continuing Education Association Great Plains Region Award for MAST program, 2004.
Extension Program Award (with MAST faculty), Western Agricultural Economics Association, 2004.
Distinguished Extension Program Award (with MAST faculty), Southern Agricultural Economics Association, 2004.
K-State Research and Extension Team Award, MAST (Management and Strategic Thinking) Program, 2003.
Team Award, U.S. Department of Agriculture Secretary's Award, Hard White Wheat Commercialization Team, 2002.
Extension Program Award, Western Agricultural Economics Association, 2002.
Honorable Mention, American Distance Education Consortium, Excellence in College and University Distance Education National Award (with MAB faculty and staff), 2001.
University Continuing Education Association/Peterson "Most Innovative Program in the Nation," (with MAB faculty and staff), 2001.
Honorable Mention, American Distance Education Consortium, Excellence in College and University Distance Education National Award (with MAB faculty and staff), 2000.
University Continuing Education Association "Best New For-Credit Educational Program in the Nation" (with MAB faculty and staff), 2000.
University Continuing Education Association Region V award (with MAB faculty and staff), 1999.
Blue Ribbon Award for Extension (with Purdue Swine Technology Team), American Society of Agricultural Engineers, 1997.
Distinguished Extension Program (with Purdue Swine Technology Team), American Association of Agricultural Economics, 1996.
School of Agriculture Team Award (with Purdue Swine Technology Team), Purdue University, 1996.
Swine Industry Award for Innovation: Education (with Purdue Swine Technology Team), American Society of Animal Science/National Pork Producers Council, 1996.

Undergraduate Teaching

University of Minnesota

Agricultural Cooperatives, 2010 to present.

Farm Management, 2015 to present.

National Grocers Association Competition Team, 2012 to present.

Business Strategy, 2010 to 2014.

Food Marketing Economics, 2015.

Agriculture Policy Issues in the EU and Irish Dairy Industry, 2015.

Kansas State University

Food and Agribusiness Marketing, 1996 to 2004.

International Agribusiness, 2006 to 2009.

Food and Agribusiness Management Strategy, 1996 to 2010.

Graduate Teaching

University of Minnesota

Managerial Economics of Agribusiness Firms, 2010 to 2015.

Cooperatives and Collective Entrepreneurship: Law, Policy and Practice, 2013 to present

Introduction to the Agribusiness and Food Marketplace, 2016 to present.

The Business of Food, 2016 to present.

Kansas State University

Advanced Food and Agribusiness Management Strategy, 1997 to 2010

Extension Programs

Director Leadership, 1998 to present. Modules in beginning and advanced finance, governance, human resources, and strategy. Taught in California, Colorado, Idaho, Indiana, Kansas, Minnesota, Missouri, Montana, Nebraska, North Dakota, Oregon, South Dakota, Tennessee, Washington, and Wisconsin (212 presentations).

Business Development, 2000 to present.

Hard White Wheat Adoption, 1998 to 2002.

USDA Process Verified Program – natural beef, 2001 to 2005.

Value-enhanced Crops and Risk Management Clubs, 1996 to 2002.

New Generation Cooperatives, 1996 to 1999.

Swine Lean Growth, 1994 to 1997.

Value-based Marketing of Pork, 1994 to 1998.

Outreach

Food Industry Trends, 2012 to present (23 presentations)

Food Policy Issues, 2012 to present (37 presentations)

Member, Harvard University Private and Public, Scientific, Academic, and Consumer Food Policy Group

International Agribusiness and Food Issues and Policies, U.S. Department of State Speaker, 2006 to present.

Minnesota Food Producers Luncheon

Executive Education

CHS Future 40 Academy, 2012 to 2015.
Cooperative Marketing Leader Roundtable, 2009 to 2016.
Cooperative Executive Officer Roundtable, 2008 to present.

Manuscripts in Review

1. Boland, M.A. "Public Policy and Agricultural Cooperatives."
2. Fuller, K., G. Brester, and M.A. Boland. "Fries, Bakers, Tots, and Seed: Genetic Engineering and Varietal Selection."
3. Hanson, E. and M.A. Boland. "Occupational Health, Agricultural Safety, and Productivity."

Refereed Journal Articles

1. Cakir, M., T. Beatty, M.A. Boland, S. Cakir, T. Park, and Y. Hang. "Spatial and Temporal Variation in the Value of the WIC Program's Fruit and Vegetable Voucher." *American Journal of Agricultural Economics*, forthcoming.
2. Secor, W. and M.A. Boland. "Entry and Exit Patterns in Corn-Ethanol Plants." *American Journal of Agricultural Economics* 99,2(March 2017): 524-531.
3. Cakir, M., M.A. Boland, and Y. Wang. "The Positive Impacts of Free Trade Agreements on the U.S. Turkey Industry during the 2015 Avian Influenza Outbreak." *Applied Economics Perspectives and Policy*, forthcoming.
4. Kenkel, P. and M.A. Boland. "Implications of Equity Structure on Governance of Agricultural Cooperatives." *Journal of Cooperative Accountant* LXX, 2(2017):2-12.
5. Hanson, M., A. Keller, M.A. Boland, and W. Lazarus. "The Debate about Farm Nitrates and Drinking Water." *Choices*, 31, 1(2016). Available at: http://www.choicesmagazine.org/UserFiles/file/cmsarticle_485.pdf
6. White, J.C. and M.A. Boland. "Fraternal Benefit Societies." *Journal of Cooperatives* 31(2016):1-31.
7. Volpe, R., Risch, C., and M.A. Boland. "Determinants of Price Strategies in Retail Supermarkets." *Managerial and Decision Economics*, DOI:10.1002/mde.2737, June 2, 2015. Available at: <http://onlinelibrary.wiley.com/doi/10.1002/mde.2737/abstract>
8. Boland, M.A., B. Cooper, and J. White. "Land O'Lakes." *American Journal of Agricultural Economics*, doi: 10.1093/ajae/aav062, November 26, 2015. Available at: <http://ajae.oxfordjournals.org/content/early/2015/11/26/ajae.aav062.full?sid=cd1f3528-ab29-455e-8062-08bf68e52fc3>
9. Risch, C., M.A. Boland, J. Crespi, and M. Leinweber. "Determinants of Occupational Safety in Agribusiness Workers." *Applied Economics Perspectives and Policy* 36, 3(2014):546-559.
10. White, J.M. and M.A. Boland. "Minnesota Township Mutual Fire Insurance: Determinants of Survival, 1974 – 2010." *Journal of Cooperatives*, 28(2014):1-26.

11. Boland, M.A., J.M. Crespi, and T.M. Turner. "Measuring Sunk Costs in the Agricultural and Food Industry: Why Some Assets Sell Below Appraisal." *Journal of Agricultural and Food Industrial Organization*. 12(2014): 53-63. Available online <http://www.degruyter.com/view/j/jafio.2014.12.issue-1/jafio-2014-0009/jafio-2014-0009.xml?format=INT>
12. Risch, C.C., M.A. Boland, and J.M. Crespi. "Survival of U.S. Sugar Beet Plants from 1897 to 2011." *Agribusiness: An International Journal* (2014):1-14.
13. Kenkel, P., M.A. Boland, and D. Barton. "Understanding NonQualified Distributions." *The Cooperative Accountant* LXVII(Summer 2014):2-10.
14. Boland, M.A. and D. Barton. "Overview of Research on Cooperative Finance." *Journal of Cooperatives* 27(2013):1-14.
15. Boland, M.A., J. Crespi, J. Silva, and X. Xia. "Monopolistic Competition in the Prune Industry." *Journal of Agricultural and Resource Economics* 37, 1(April 2012):145-56.
16. Gallo, E. and M.A. Boland. "Human Capital Formation for Agribusiness: The Case of Zamorano University." *International Food and Agribusiness Management Review* 15, A(2012):121-25.
17. Barton, D., M.A. Boland, F. Chaddad, and E. Eversull. "Current Challenges in Financing Agricultural Cooperatives." *Choices*, v.26, no.3, 3rd Quarter 2011.
18. Boland, M.A., J. Hogeland, and G. McKee. "Current Issues in Strategy for Agricultural cooperatives." *Choices*, v.26, no.3, 3rd Quarter 2011.
19. Sporleder, T. and M.A. Boland. "Exclusivity of agrifood supply chains: nine fundamental economic characteristics." *International Food and Agribusiness Management Review*, v. 11, no. 5, 2011.
20. Boland, M.A. "Increasing Coordination in the Plant and Plant Product Processing and Handling Sector." *Choices* 25, 4(2010).
21. McKee, G.J., J. Jacobson, and M.A. Boland. "Management Alliances: The Case of Dakota Valley Electric and Northern Plains Electric." *Management Quarterly* 51(3)(Fall) 2010.
22. Boland, M.A. and J. Crespi. "From Farm Economics to Applied Economics. The Evolution of a Profession as Seen through a Census of its Dissertations from 1951 to 2005." *Applied Economic Perspectives and Policy* Fall 2010.
23. Dorsey, S. and M.A. Boland. "Vertical Integration in the U.S. Food Economy." *Journal of Agricultural and Applied Economics* 41, 3(December 2009):585-598.
24. Boland, M.A., J. Crespi, and D. Oswald. "An Analysis of the 2002 Farm Bill's Value-Added Producer Grants Program." *Journal of Agribusiness* 27, 1/2(2009):107-123.
25. Bosse, A. and M.A. Boland. "Policy Implications for a School Nutrition Program in Honduras." *International Food and Agribusiness Management Review* 13, 2(2010).

26. Pozo, V., M.A. Boland, and D. Sumner. "Sunkist Growers: Refreshing the Brand." *Review of Agricultural Economics* 31, 3(Fall 2009):628-639.
27. Chaddad, F. and M.A. Boland. "Strategy-Structure Alignment in the World Coffee Industry: The Case of Coopuxe." *Review of Agricultural Economics* 31, 3(Fall 2009):653-665.
28. Boland, M.A. "Leadership Development in Agricultural and Applied Economics: Challenges for Academic Units." *Journal of Agricultural and Resource Economics* 34, 3(December 2009):367-382.
29. McKee, G. and M.A. Boland. "American Crystal Sugar Company: Making Ethanol from Sugar Beets." *Review of Agricultural Economics* 31, 2(Summer 2009):383-392.
30. Brester, G., B. Grant and M.A. Boland. "Marketing Organic Pasta from Big Sandy to Rome: It's a Long Kamut." *Review of Agricultural Economics* 32, 2(Summer 2009):359-369.
31. Boland, M.A. and G. McKee. "The Restructuring of Dakota Growers Pasta Company." *Journal of Cooperatives* 23(2009):141-151.
32. McKee, G. and M.A. Boland. "North American Bison Cooperative and North Dakota Natural Beef LLC: Governance of a Contractual Alliance." *Journal of Cooperatives* 23(2009):152-163.
33. Sanchez, D., M.A. Boland, and D. Sumner "Sun-Maid Growers." *Review of Agricultural Economics* 30, 2(2008):360-369.
34. McKee, G. and M.A. Boland. "Cass-Clay Creameries and AMPI." *Journal of Cooperatives* 21, 1(2008):1-14.
35. Boland, M.A., B. Golden, and L. Tsoodle. "Agency Problems in the Food Processing Industry." *Journal of Agricultural and Applied Economics* 402(2008):623-34.
36. Boyd, S., M.A. Boland, K. Dhuyvetter, and D. Barton. "The Persistence of Profitability in Local Farm Supply and Grain Marketing Cooperatives." *Journal of Agricultural and Applied Economics* 59, 1(2007):201-210.
37. Boland, M.A., L. Perez, and J.A. Fox. "Uruguayan Beef Industry." *Choices* 22, 1(Spring 2007):13-19.
38. Boland, M.A., A.M. Bosse, and G.W. Brester. "Mountain States Lamb Cooperative." *Review of Agricultural Economics* 29, 1(2007):157-169.
39. Boland, M.A. and G. Brester. "Coors' Malt Barley Contracting Program." *Review of Agricultural Economics* 28, 1(Spring 2006):272-283.
40. Boland, M.A. and T. Marsh. "Input Quality in the Sugar Beet Industry." *Journal of Agricultural and Resource Economics* 31, 1(2006):114-128.

41. Piana, C., A. Featherstone, and M.A. Boland. "Vertical Integration in Ecuador: The Case of Fresh-Cut Fruit." *Review of Agricultural Economics* 27, 4(Winter 2005):593-604.
42. Boland, M.A. and S.K. Schumacher. "The Sustainability of Profitability in the Food Economy." *Agricultural Finance Review* 65, 1(Spring 2005):31-44.
43. Schumacher, S. and M.A. Boland. "Persistence in Profitability in Food and Agribusiness Firms." *American Journal of Agricultural Economics* 87, 1(February 2005):103-115.
44. Schumacher, S. and M.A. Boland. "The Effects of Industry and Firm Characteristics on Profitability in the Food Economy." *Agribusiness* 21, 1(January 2005):97-108.
45. Taylor, M., G. Brester, and M.A. Boland. "General Mills and its Hard White Wheat Contracting Program." *Review of Agricultural Economics* 27, 1(Spring 2005): 117-129.
46. Boland, M.A. and J.T. Akridge. "Undergraduate Agribusiness Programs: Focus or Falter." *Review of Agricultural Economics* 26, 4(Winter 2004):564-78. Invited paper.
47. Boland, M.A., V. Amanor-Boadu, and D. Barton. "Land O'Lakes: Issues in Portfolio Management." *International Food and Agribusiness Management Review* 7, 2(2004):62-74.
48. Boland, M.A. and L. Thielen. "Industry Note: The USDA CSREES HEP: Doctoral Fellowships in the National Need of Management and Marketing." *International Food and Agribusiness Management Review* 7, 1(2004):67-69.
49. Amanor-Boadu, V. and M.A. Boland. "Dan Dillon, CEO of Welch Foods." *International Food and Agribusiness Management Review*.
50. Brester, G. and M.A. Boland. "The Rocky Mountain Sugar Growers Cooperative: Sweet or Sugar-Coated Visions of the Future." *Review of Agricultural Economics* 26, 2(summer 2004): 287-302.
51. Mulik, K., J.A. Fox, and M.A. Boland. "Acceptability of Irradiation to Restaurant Managers." *Food Protection Trends* 23, 12(December 2003).
52. Perez, L., M.A. Boland, and T. Schroeder. "Country of Origin Labeling in Uruguay." *International Food and Agribusiness Management Review* 6, 4(2003):1-13.
53. Brester, G. and M.A. Boland. "Premier Technology: Case Study in Human Resource Management." *Journal of Food Distribution Research* (November 2003):21-30.
54. Boland, M.A. "Cargill: Challenges with Wheat Biotechnology and Identity-Preserved Marketing." *International Food and Agribusiness Management Review* 6, 3(2003).
55. Boland, M.A. and J. Katz. "Jack Gherty: CEO of Land O'Lakes." *Academy of Management Executive* 17, 3(August 2003):24-31.
56. Boland, M.A. and D. Barton "American Crystal Sugar Company." *Journal of Finance Case Research* 6(2002): 26-47.

57. Boland, M.A. and T. Schroeder. "Marginal Value of Quality Attributes for Natural and Organic Beef." *Journal of Agricultural and Applied Economics* 34, 1(April 2002):39-50.
58. Katz, J. and M.A. Boland. "One for All and All for One? A New Generation of Cooperatives Emerges." *Long Range Planning Journal* 35(2002):73-89.
59. Herrman, T.J., M.A. Boland, K. Agrawal, and S.R. Baker. "Use of a Simulation Model to Evaluate Wheat Segregation Strategies for Country Elevators." *Applied Transactions of the ASAE* 18, 1(2002): 105-112.
60. Boland, M.A., D. Huffman, and J.A. Fox. "Costs of Implementing HACCP and SSOP's." *Journal of Food Safety* 21, 3(November 2001):191-204.
61. Fingerhut, K., P. Zhang, J.A. Fox, and M.A. Boland. "Consumer Preferences for Pathogen-reducing Technologies in Beef." *Journal of Food Safety* 21(2001):97-110.
62. Boland, M.A., E. Lehman, and J. Stroade. "A Review of Baccalaureate Degree Programs in Agribusiness Management." *International Food and Agribusiness Management Review* 4, 3(2001):1-11.
63. Boland, M.A., C. Freberg, and D. Barton. "Dakota Growers Pasta." *Case Research Journal* 21, 2(Spring 2001):35-56.
64. Boland, M.A., N. Mitchell, and K. Stiegert. "Midwest Grain Products." *International Food and Agribusiness Management Review* 3(2000):457-72.
65. Boland, M.A., M. Johnson, and S. Schumacher. "Wheat Breeder Battles: Hard Red vs. White." *Choices* 15, 2(2000):17-20.
66. Katz, J. and M.A. Boland. "U.S. Premium Beef." *Supply Chain Management Journal* 5, 2(2000):99-109.
67. Boland, M.A. and J.T. Akridge. "Benchmarking Procedures for Retail Fertilizer Firms." *Agricultural Finance Review* 59(1999):65-76.
68. Schumacher, S., M.A. Boland, R. Madl, and G. Ham. "Hard White Wheat Release Procedures: A Decision Case." *Journal of Natural Sciences and Life Sciences Education* 28(1999):63-71.
69. Boland, M.A., A. Featherstone, and S.J. Chapman. "Characteristics of Master's Programs in Agribusiness Management." *International Food and Agribusiness Management Review* 2, 1(1999): 63-82.
70. Boland, M.A. and S. Daniel. "Agricultural Economists for the Private Sector -- Are We Meeting Their Needs?" *Review of Agricultural Economics* 21, 2(Fall/Winter 1999):319-330.
71. Boland, M.A., K.A. Foster, B.C. Joern, D.D. Jones, and P.V. Preckel. "Manure Management Models: Manure Storage and Application Costs." *Journal of Production Agriculture* 12, 2(July-September 1999): 405-409.

72. Boland, M.A., K.A. Foster, and P.V. Preckel. "Nutrient Economics of Swine Management." *Journal of Agricultural and Applied Economics* 31, 1(April 1999):83-96.
73. Boland, M.A., S. Daniel, J. Katz, J. Parcell, and I. Romer de Aristizabal. "The 21st Century Alliance: The Case of the Dry Edible Bean Cooperative." *Review of Agricultural Economics* 20(Fall-Winter 1998):654-65.
74. Boland, M.A., K.A. Foster, and P.V. Preckel. "Economic Analysis of Phosphorus Reducing Technologies by Pork Producers." *Journal of Agricultural and Resource Economics* 23, 2(December 1998):468-482.
75. Brorsen, B.W., J.T. Akridge, M.A. Boland, L.D. Whipker, S. Mauney, and J.C. Forrest. "Performance of Alternative Component Pricing Systems for Pork." *Journal of Agricultural and Applied Economics* 30, 2(December 1998):313-324.
76. Katz, J.P. and M.A. Boland. "The Structure of the Custom Cattle Feeding Industry," *Kansas Business Review* 22(Fall 1998):11-18.
77. Preckel, P.V., J.T. Akridge, and M.A. Boland, "Efficiency Measures for Retail Fertilizer Dealers." *Agribusiness: An International Journal* 13(1997):497-509.
78. Boland, M.A., K.A. Foster, P.V. Preckel, and A.P. Schinckel. "Analyzing Pork Carcass Evaluation Technologies in a Swine Bioeconomic Model." *Journal of Production Agriculture* 9(1996):45-49.
79. Boland, M.A., K.A. Foster, and J.T. Akridge. "Packer Sorting Strategies for Fresh Pork." *Agribusiness: An International Journal* 11(1995):423-430.
80. Boland, M.A. and K.A. Foster. "Simulation of a Carcass Evaluation Technology in a Pork Packing Plant." *Applied Transactions of the American Society of Agricultural Engineering* 37(1995):593-599.
81. Boland, M.A., E.P. Berg, J.T. Akridge, and J.C. Forrest. "The Impact of Operator Error using Optical Probes to Estimate Pork Carcass Value." *Review of Agricultural Economics* 17(1995):193-204.
82. Boland, M.A., K.A. Foster, A.P. Schinckel, J. Wagner, W. Chen, E.P. Berg, and J.C. Forrest. "Alternative Pork Carcass Evaluation Technologies: 1. Differences in Value." *Journal of Animal Science* 73(1995):637-644.
83. Boland, M.A., K.A. Foster, A.P. Schinckel, W. Chen, J. Wagner, E.P. Berg, and J.C. Forrest. "Alternative Pork Carcass Evaluation Technologies: 2. Statistical Analysis of Error Attributable to Sex, Genotype, and Weight." *Journal of Animal Science* 73(1995):645-650.
84. Boland, M.A. and G.F. Patrick. "Measuring Variability of Performance among Individual Swine Producers." *Review of Agricultural Economics* 16(1994):75-82.
85. Boland, M.A., P.V. Preckel, and A.P. Schinckel. "Optimal Hog Slaughter Weights under Alternative Pricing Systems." *Journal of Agricultural and Applied Economics* 25(1993):148-163.

86. Boland, M.A., A.P. Schinckel, and P.V. Preckel. "Optimal Marketing Weights of Different Genotypes of Hogs." *The Professional Animal Scientist* 9(1993):163-172.
87. Boland, M.A., K.A. Foster, G.F. Patrick, J.M. Foster, and D.E. Orr. "Estimating the Linkages between Productivity and Profitability in Swine Enterprises." *Journal of the Association of Farm Managers and Rural Appraisers* 57(1993):55-58.

Summary of Other Publications

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|---|----|
| Peer reviewed proceedings, papers, and book chapters | 71 |
| Selected papers, cases, posters, and symposia | 59 |
| Agricultural Experiment Station and Cooperative Extension Service reports | 29 |
| Non-referred research summary, continuing education and other activities | 77 |

Summary of Graduate Student Involvement

Served as Major or Co-Major Professor

| | | | |
|---------------------------|-----------|---------------------------|----------|
| Completed Ph.D. thesis | <u>6</u> | Ph.D. in Process | <u>1</u> |
| Completed M.S. - Thesis | <u>27</u> | M.S. in Process - Thesis | <u>1</u> |
| Completed M.A.B. - Thesis | <u>10</u> | M.A.B in process - Thesis | <u>0</u> |

Dr. Boland has funded 100% of the student assistantships for 33 of the 34 M.S. and Ph.D. students.

Served as Member of Advisory Committee (not major professor)

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|---------------------------|-----------|---------------------------|----------|
| Completed Ph.D. | <u>5</u> | Ph.D. in Process | <u>4</u> |
| Completed M.S. - Thesis | <u>29</u> | M.S. in Process - Thesis | <u>2</u> |
| Completed M.B.A. | <u>5</u> | M.B.A. in process | <u>0</u> |
| Completed M.A.B. - Thesis | <u>27</u> | M.A.B in process - Thesis | <u>0</u> |

Summary of Grant, Fee for Service, and Donation Activities

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|---|------------------|
| Total grant amounts paid to University of Minnesota, 2010 to present. | \$949,125 |
| The Food Industry Center donations | \$279,500 |
| Total fee for service income | <u>\$592,170</u> |
| Total revenue to University of Minnesota under my control | \$1,820,795 |

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|---|-----------------|
| Total grant amounts paid to Kansas State University, 1996 to 2010 | \$14,896,663 |
| Total grant amounts to Department of Agricultural Economics | \$4,404,263 |
| Total fee for service income | \$468,814 |
| Total endowment contributions | \$1,078,465 |
| Case study royalty income to Kansas State | <u>\$27,626</u> |
| Total revenue to Kansas State University under my control | \$5,979,168 |

Total funds have been used to pay faculty, visiting assistant professor graduate student, and associated research tenths.