

## **CONTACT DETAILS**

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## **EDUCATION**

1997 Ph.D. Agricultural and Resource Economics, University of California at Davis, California, USA

1994 M. Science Agricultural Economics, University of California at Davis, California, USA

1992 Bachelor Agricultural Economics (First Class Honors), University of New England, NSW, Australia

## **PROFESSIONAL EXPERIENCE**

4/2020–present Professor with Tenure, Department of Agricultural and Resource Economics, North Carolina State University

1/2017–3/2020 Professor with Tenure, Associate Department Head and Department Extension Leader, Department of Agricultural and Resource Economics, North Carolina State University

7/2009–12/2016 Professor with Tenure, Department of Agricultural and Resource Economics, North Carolina State University

7/2003–6/2009 Associate Professor with Tenure, Department of Agricultural and Resource Economics, North Carolina State University

11/1997–6/2003 Assistant Professor, Department of Agricultural and Resource Economics, North Carolina State University

1992-1997 Research and Teaching Assistant, Department of Agricultural and Resource Economics, University of California at Davis.

## **EXPERTISE**

Demand analysis, applied econometrics, grain and livestock markets, biotechnology, and risk

management.

### **SCHOLARLY HONORS**

Winner of the American Agricultural Economics Association Award for Professional Excellence—Distinguished Extension Award: Less than 10 Years' Experience, 2005.

*American Journal of Agricultural Economics* article most downloaded in 2004 for “Does Food Safety Information Impact U.S. Meat Demand?” by N.E. Piggott and T.L. Marsh (Volume 86, Issue 1)—395 downloads.

Co-Chair of Graduate Advisory Committee for the winner (Huseyin Tasten) of the Food Distribution Research Society 2004 Applebaum Outstanding Ph.D. Thesis Award.

*American Journal of Agricultural Economics* article runner-up most downloaded in 2003 for “The Nested PIGLOG Model: An Application to U.S. Food Demand,” by N.E. Piggott (Volume 84, Issue 1)—156 downloads.

Illinois Soybean Association Award to Team Leaders of the Soy/Swine Nutrition Research Program in Recognition of Excellence in Soybean Research, 1999.

American Agricultural Economics Association Award for Professional Excellence—Outstanding Ph.D. Dissertation Award (single winner), 1998.

Food Distribution Research Society 1998 Applebaum Outstanding Ph.D. Thesis Award.

Gordon King Award for Best Ph.D. Dissertation completed in the Department of Agricultural and Resource Economics, University of California at Davis, 1997.

Postgraduate Scholarship Australian Dairy Research and Development Corporation, 1993-96.

J.N. Lewis Award for the Best Undergraduate Dissertation completed in the Department of Agricultural Economics, University of New England, 1991.

Australian Agricultural Economics Society Undergraduate Prize for Outstanding Work in undergraduate studies in Agricultural Economics, 1991.

Dean's Scholarship, Faculty of Economic Studies, University of New England, 1991.

### **PROFESSIONAL HONORS**

2007 Monsanto Pledge Award for outstanding contributions toward the winning project: “The Biotech Yield Endorsement: Innovation in Crop Insurance and Risk Management.”

Editorial Council, *Journal of Agricultural and Resources Economics*, published by the Western Agricultural Economics Association, 2009-2012.

Invited by Congressman Bob Etheridge (D-NC) to testify before Congress on the state of the farm economy and the impact of federal policy on agriculture, 2005.

Certified Expert Reviewer for the Federal Crop Insurance Corporation Board of Directors, 2004-present

Full Member, Economics Graduate Faculty at North Carolina State University, 2003-present

Academic Affiliate, Analysis Group, Inc., Boston, MA, December 2003-present

Advisor, North Carolina Small Grain Growers Association, 2003-present

Advisory Committee, Southern Region Risk Management Education Center, 2001-04.

Elected Member, Executive Committee of Southern Extension Marketing Committee to a three-year term as Secretary (2001), Vice-Chair (2002), and Chair (2003).

Elected President, North American Branch of the Australian Agricultural and Resource Economics Society, 2000-02.

#### **PEER REVIEWED JOURNAL ARTICLES**

Goodwin B.K. and N.E. Piggott (2020). "Has Technology Increased Yield Risk? Evidence from the Federal Crop Insurance Biotech Endorsement." *American Journal of Agricultural Economics* 102(5): 1578-1597.

Tighe K, N.E. Piggott, O. Cacho, S. Mounter, and R. Villano (2019). "Does consumer interest in farm animal welfare impact Australian meat demand?" *Australasian Agribusiness Review*, Volume 27, Paper K.

Tighe K, N.E. Piggott, O. Cacho, S. Mounter, and R. Villano (2019). "Testing for Pre-committed Quantities of Australian Meat Demand." *Australian Journal of Agricultural Economics* 63: 247-264.

Goodwin B.K, M.C., Marra, N.E. Piggott (2015). "The Cost of a GMO-Free Market Basket of Food in the U.S." *AgBioForum*, 18(3): 25-33.

Jefferson-Moore, K. Y., Bekkerman, A., Piggott, N. E., Goodwin, B. K., Palat, S., and Turner, C. C. (2015). "Potential check-off benefits to farmers in the presence of wind-borne diseases." *Journal of Agricultural Extension and Rural Development*, 7(5), 176-177.

Marra, M.C., N.E. Piggott, and B.K. Goodwin. (2014). "On the Economics of Crop Rotations for Inhibiting Corn Rootworm Resistance Development." *AgBioForum*, 16(3):187-193.

Bekkerman A, B. K. Goodwin, and N.E. Piggott. (2013) "A Variable Threshold Band Approach to Measuring Market Linkages." *Applied Economics*, 45(19): 2705-2714.

- Marra, M.C., Piggott, N.E., & Goodwin, B.K. (2012). "The Impact of Corn Rootworm Protected Biotechnology Traits in the United States." *AgBioForum*, 15(2), 217-230.
- Bekkerman, A. B., N. E. Piggott, B. K. Goodwin, K. Jefferson-Moore." A Market-based Mitigation Program for Wind-Borne Diseases." *Agricultural and Resource Economics Review*, (August 2012): 175-188.
- Marra, M.C., Piggott, N.E., & Goodwin, B.K. (2010). "The Anticipated Value of SmartStax™ for US corn growers." *AgBioForum*, 13(1), 1-12. (**lead article**).
- Goodwin, B.K. and N.E. Piggott. "Spatio-Temporal Modeling of Asian Citrus Canker Risks: Implications for Insurance and Indemnification Fund Models" *American Journal of Agricultural Economics*, 91(4) (November 2009): 1038-1055.
- Bekkerman A, B. K. Goodwin, and N.E. Piggott "Spatio-temporal Risk and Severity Analysis of Soybean Rust in the U.S." *Journal of Agricultural and Resource Economics* 33(December 2008): 311-331.
- Piggott, N.E. and M. C. Marra (2008) "Biotechnology Adoption Over Time in the Presence of Non-Pecuniary Characteristics that Directly Affect Utility: A Derived Demand Approach." *AgBioForum*, 11(1): 58-70.
- Piggott, N.E. and Marra, M.C. (2007) "The net gain to cotton farmers of a natural refuge plan for Bollgard II® cotton." *AgBioForum*, 10(1), 1-10. (**lead article**)
- Piggott, N E. and T L. Marsh. "Does Food Safety Information Impact U.S. Meat Demand?" *American Journal of Agricultural Economics*, 86(1) (February 2004): 154-174.
- Piggott, N E. "Measures of Precision for Estimated Welfare Effects for Producers from Generic Advertising." *Agribusiness: An International Journal*, 19 (Summer 2003): 379-391.
- Wohlgenant, M K. and N E. Piggott. "Market Power and Distribution of Benefits from Promotion and Research." *Agribusiness: An International Journal*, (Summer 2003): 301-314.
- Piggott, N E. "The Nested PIGLOG Model: An Application to U.S. Food Demand." *American Journal of Agricultural Economics*, 85(1) (February 2003): 1-15 (**lead article**).
- Piggott, N.E. and M K. Wohlgenant. "Price Elasticities, Joint Products, and International Trade." *Australian Journal of Agricultural Economics*, (December 2002):46(4): 487-500 (**lead article**).
- Alston, J M., J A. Chalfant and N.E. Piggott. "Estimating and Testing the Compensated Double-Log Model." *Applied Economics*, 34 (June 2002): 1177-1186
- Goodwin, B.K. and N.E. Piggott. "Spatial Market Integration in the Presence of Threshold Effects." *American Journal of Agricultural Economics*, 83 (May 2001): 302-318.

Alston, J.M., J.A. Chalfant, and N.E. Piggott. "Incorporating Demand Shifters in the Almost Ideal Demand System." *Economics Letters*, 70 (2001): 73-78.

Alston, J.M., J.A. Chalfant, and N.E. Piggott. "The Incidence of the Costs and Benefits of Generic Advertising." *American Journal of Agricultural Economics*, 82 (August 2000): 665-671.

Alston, J.M., J.A. Chalfant, J.E. Christian, E. Meng, and N.E. Piggott. "The California Table Grape Commission's Promotion Program: An Evaluation." *Giannini Foundation*, Monograph Number 43, November 1997.

Piggott, N.E., J.A. Chalfant, J.M. Alston, and G.R. Griffith. "Measuring the Demand Response to Advertising in the Australian Meat Industry." *American Journal of Agricultural Economics*, 78 (May 1996): 268-279.

Griffith, G.R. and N.E. Piggott. "Asymmetry in Beef, Lamb, and Pork Farm-Retail Price Transmission in Australia." *Agricultural Economics*, 10 (1994): 307-316.

Piggott, R.R., N.E. Piggott, and V.E. Wright. "Approximating Returns to Incremental Advertising Expenditures: Methods and an Application to the Australian Meat Industry." *American Journal of Agricultural Economics*, 77 (August 1995): 497-511.

Piggott, N.E. and V.E. Wright. "From Consumer Choice Process to Aggregate Analysis: Marketing Insights for Models of Meat Demand." *Australian Journal of Agricultural Economics*, 36 (December 1992): 233-248.

#### **IN REVIEW**

Piggott N.E. and T. L. Marsh. "Measuring Pre-committed Quantities through Consumer Price Formulation." Submitted to the *Agricultural Economics*. Revise and resubmit the first round May 2020.

#### **WORKING PAPER**

Piggott N.E. "Food versus Fuel versus Feed in U.S. Corn and Soybean Production," Invited paper for the International Rapeseed Conference in September 2023.

#### **BOOK CHAPTERS**

Schweizer, H., N.E. Piggott, and D. Washburn. "Soybean Production and Marketing in North Carolina", Chapter 2 in North Carolina Soybean Production Guide, Published by NC State Extension College of Agriculture and Life Sciences, North Carolina State University, Publication date: March 30, 2022, AG-835.

<https://content.ces.ncsu.edu/north-carolina-soybean-production-guide/soybean-production-and-marketing-in-north-carolina#>

Piggott, N.E. "Soybean Production and Marketing in North Carolina." Chapter 2 in North Carolina Soybean Production Guide, Published by NC State Extension College of Agriculture and Life Sciences, North Carolina State University, Publication date: Nov. 21, 2017, AG-835.

Goodwin B.K, M.C., Marra, N.E. Piggott. “The Cost of a GMO-Free Market Basket of Food in the U.S.” in *The Coexistence of Genetically Modified, Organic and Conventional Foods: Government Policies and Market Practices*, Kalaitzandonakes, N., Phillips, P.W.B., Wesseler, J., Smyth, S.J. (editors), Published by Springer 2016.

Piggott, N.E. and T.L. Marsh (2011). “Constrained Utility Maximization and Demand System Estimation” Chapter 1 in *The Oxford Handbook of the Economics of Food Consumption and Policy*, Jason Lusk, Jutta Roosen, Jason Shogren (editors), Published by Elsevier, Oxford University Press, USA, pp. 7-34.

Goodwin, B. K. and N. E. Piggott. 2007 “Risk and Indemnification Models of Infectious Plant Diseases: The Case of Asiatic Citrus Canker in Florida.” Chapter 5 in *New Approaches in the Economics of Plant Health*, Ed. Alfons Oude, Wageningen UR Frontis Series. Published by Springer, Dordrecht (Series Editor: Robert J. Bogers), pp. 71-100.

Marra, M.C. and N.E. Piggott. 2006. *The Value of Non-Pecuniary Characteristics of Crop Biotechnologies: A New Look at the Evidence*, Chapter 8 in Just, Alston, and Zilberman, eds. *Regulating Agricultural Biotechnology: Economics and Policy*, Springer-Verlag Publishers: New York, pp.145-178.

Alston, J.M., J.A. Chalfant, J.E. Christian, E. Meng, and N.E. Piggott. 2005 “The Benefits and Costs of Promotion Programs for California Table Grapes,” Chapter 9 of *Commodity Promotion Programs in California: Economic Evaluation and Legal Issues*. Edited by Harry Kaiser, Julian Alston, John Crespi, Rich Sexton, Peter Lang Publishing, New York. pp. 71-94.

### **PUBLISHED ABSTRACTS AND CONTRIBUTED PAPERS**

K. Tighe and N.E. Piggott, (2020). “Modelling the Impact of Farm Animal Welfare on Australian Meat Demand.” Contributed paper presented to the 64th Annual Conference of Australian Agricultural and Resource Economics Society, Perth, February 2020.

Marsh T.L. and N. E. Piggott. “Measuring Pre-committed quantities through Consumer Price Formulation.” Contributed paper presented to the 57th Annual Conference of Australiasian Agricultural and Resource Economics Society, Sydney, February 2013.

Cooper, J. C., B.K. Goodwin, N.E. Piggott, “Modeling Acreage Response and US Farm Policy In a New Market Environment,” Presented at the AAEA Meetings, Seattle, WA, August 2012.

Goodwin, B.K., M.C. Marra, N.E. Piggott, S. Mueller, “Is Yield Endogenous to Price? An Empirical Evaluation of Inter- and Intra-Seasonal Corn Yield Response,” Presented at the AAEA Meetings, Seattle, WA, August 2012.

Cooper, J. C., B.K. Goodwin, N.E. Piggott, “Modeling Acreage Response and US Farm Policy In a New Market Environment,” Poster at the AAEA Meetings, Pittsburgh, PA, July 2011.

Piggott N.E., M.R. Taylor, F. Kuchler. “The Impacts of Food Safety Information on Meat Demand: A Cross-Commodity Approach Using U.S. Household Data, Selected Paper AAEA

Meeting, Portland, OR, July 2007.

Marsh T.L. and N. E. Piggott, N E. “Measuring Pre-committed Quantities Through Consumer Price Formations.” Contributed paper presented to the 52nd Annual Conference of Australian Agricultural and Resource Economics Society, Canberra, ACT, February 2008.

Marra M. C. and Piggott, N.E. “Measuring Part-Whole Bias: Some Evidence from Crop Biotechnology.” Selected paper presented to the International Association of Agricultural Economist, Gold Coast, QLD, August 2006.

Marsh T.L. and N. E. Piggott, N E. “Demographic Translating in Consumer Distance Functions.” Selected paper presented to the International Association of Agricultural Economist, Gold Coast, QLD, August 2006.

Piggott, N.E. and M.C. Marra. “Modern Determinants of U.S. Soybean Acreage: The Effects of Biotechnology and Recent Farm Policy.” Contributed paper presented to the 50th Annual Conference of Australian Agricultural and Resource Economics Society, Sydney, NSW, February 2006.

Marsh T.L. and N.E. Piggott. “Demographic Translating and Scaling In Consumer Distance Functions.” Contributed paper presented to the 49th Annual Conference of Australian Agricultural and Resource Economics Society, Coffs Harbour, NSW, February 2005.

Piggott, N.E., M.C. Marra, and G.A. Carlson. “Modern Determinants of U.S. Soybean Acreage: Do Biotech and Farm Policy Play a Role?” Contributed paper presented to the 48th Annual Conference of Australian Agricultural and Resource Economics Society, Melbourne, VIC, February 2004.

Wohlgenant M.K. and N.E. Piggott. “Modeling the Effects of Quality Changes in Soybean Oil.” Contributed paper presented to the 48th Annual Conference of Australian Agricultural and Resource Economics Society, Melbourne, VIC, February 2004.

Wohlgenant M.K. and N.E. Piggott. “Distribution of Gains from Research and Promotion in the Presence of Market Power.” Contributed paper at the NEC-63 Conference, Washington, D.C., October 21-22, 2002.Zh

Beach, R.H., B.C. Murray, N.E. Piggott, and M.K. Wohlgenant. “Interaction Effects of Promotion, Research, and Price Support Programs for U.S. Cotton.” Contributed paper presented to the American Agricultural Economics Association Annual Meetings, Long Beach, CA, July 2002.

Piggott, N.E. “The Nested PIGLOG Model: An Application to US Food Demand.” Contributed paper presented to the 46th Annual Conference of Australian Agricultural and Resource Economics Society, Adelaide, SA, February 2002.

Piggott, N.E. and T.L. Marsh. “Impacts of Food Safety on U.S. Meat Demand.” Contributed paper presented to the 45th Annual Conference of Australian Agricultural and Resource Economics

Society, Adelaide, January 2001.

Jiang, J., N.E. Piggott, and M.K. Wohlgenant. "The Impact of China's Expanding Market on the U.S. Soybean Industry." Selected Paper at the Global Agricultural Trade in the New Millennium Conference, New Orleans, May 2000.

Goodwin, B.K. and N.E. Piggott. "Spatial Market Integration in the Presence of Threshold Effects." *American Journal of Agricultural Economics* 81 (December 1999): 1319.

Piggott, N.E. "The Benefits and Costs of Generic Advertising of Agricultural Commodities." Presentation to the Victorian Branch of the Australian Agricultural and Resource Economics Society, Melbourne, VIC, Australia, May 1999.

Alston, J.M., J.A. Chalfant, and N.E. Piggott. "A Globally Flexible Model of the Effects of Generic Advertising of Beef and Pork on U.S. Meat Demand." *American Journal of Agricultural Economics* 80 (December 1998): 1174.

Piggott, N.E. "The Benefits and Costs of Generic Advertising of Agricultural Commodities." *American Journal of Agricultural Economics* 80 (December 1998): 1212-1213.

Piggott N.E., J.M. Alston, J.A. Chalfant, and G.R. Griffith. "Demand Response to Advertising in the Australian Meat Industry." *American Journal of Agricultural Economics* 75 (December 1993): 1309-1310.

## **REPORTS AND MISCELLANEOUS PUBLICATIONS**

Piggott N.E. and H. Schweizer. "North Carolina Corn Basis Fundamentals—Final Report", Fina Report

Goodwin B.K., N.E. Piggott, J. Cooper. "Modeling Market Linkages, Policy, and Acreage Response in a New Market Environment," Cooperative Research Agreement Final Report, March 12, 2012.

Goodwin B.K., and N.E. Piggott "The Feasibility of Indemnification and Check-Of Funded Programs to Manage Invasive Species Risk in Agriculture, Final Report, Submitted to the Economic Research Service, PRESIM Program, November 2006.

Beach, R.H., C. Zhen, N.E. Piggott, M.K. Wohlgenant, C. Viator, S. Cates. "An Economic Analysis of the Effectiveness of the Pork Checkoff Program." Prepared for National Pork Board, Des Moines, IA, February 2007.

Muth, M.K. J. Lawrence, S. C. Cates, M. Coglaiti, J. Del Roccili, S. Karns, N. E. Piggott, J. Taylor, C. Viator. GIPSA Livestock and Meat Marketing Study, Volume 6: Meat Distribution and Sales, Prepared for the Grain Inspection, Packers and Stockyard Administration, U.S. Department of Agriculture Washington, DC 20250, January 2007.



Piggott, N. E. "Farm Policy and the General State of the Farm Economy." US Congressional Record. Review of The State of The Farm Economy and the Impact of Federal Policy On Agriculture. Hearing Before the Subcommittee of General Farm Commodities And Risk Management of The Committee on Agriculture House of Representatives One Hundred Ninth Congress First Session, September 29, 2005. Serial No. 108-17: 82-101.

Marra, M.C., N.E. Piggott, and G.A. Carlson. "The Net Benefits, Including Convenience, of Roundup Ready ® Soybeans: Results from a National Survey." Technical Bulletin 2004-3, NSF Center for IPM, Raleigh, North Carolina, September 2004.

Marra, M.C., N.E. Piggott, and O. Sydorovych. "The Impact of Herbicide Tolerant Crops on North Carolina's Farmers." Report submitted to the Syngenta Corporation, Greensboro, North Carolina, May 2004.

Piggott, N.E., M.K. Wohlgenant, and K.D. Zering. "Analysis of the Economic Importance of Changes in Soybean Use." Report to the Soy/Swine Project, University of Illinois, October 2001.

Murray, B.C., R.H. Beach, W.J. White, C. Viator, N.E. Piggott, and M.K. Wohlgenant. "An Economic Analysis of the Cotton Research and Promotion Program." Prepared for the Cotton Board Memphis Tennessee, September 2001.

Piggott, N.E., M.K. Wohlgenant, and K.D. Zering. "Analysis of the Economic Importance of Changes in Soybean Use." Report to the Soy/Swine Project, University of Illinois, January 2000.

Piggott, N.E. "Demand Response to Advertising in the Australian Meat Industry." NICPRE Quarterly Vol. 2, No.2, 1996.

Alston, J.M., J.A. Chalfant and N.E. Piggott. "Demand Response and Returns to Incremental Advertising in the Australian Meat Industry," in Economic Analysis of Meat Promotion, Edited by Kinnucan, H.W., J.E. Lenz, and C.R. Clary, Ithaca, New York: National Institute for Commodity Promotion and Evaluation, Cornell University, 1995.

## **INVITED PAPERS AND SEMINARS (BY CATEGORY)**

### *International*

Marsh T.L. and N.E. Piggott "Measuring Pre-Committed Quantities Through Consumer Price Formation Specification and Estimation of U.S. Food and Alcoholic Beverages Demand." Invited AAEA-AARES Symposium "Food Demand and Econometrics," Australian Agricultural Economics and Resources Economics Annual Conference, Adelaide, February 2010.

Goodwin, B.K. and N.E. Piggott. "Spatio-Temporal Modeling of Asian Citrus Canker Risks: Implications for Insurance and Indemnification Fund Models." Presented at the Symposium Session "Invasive Species: Trade, Management and Biosecurity Policy" at the International Association of Agricultural Economist, Gold Coast, August 2006.

Goodwin, B.K. and N.E. Piggott. "Spatio-Temporal Modeling of Asian Citrus Canker Risks: Implications of Indemnification Funds and Insurance Program Premiums." Invited paper, *Economics of Plant Health*, Wageningen, The Netherlands, June 2, 2005.

Piggott, N.E. and T.L. Marsh "Does Food Safety Information Impact U.S. Meat Demand?" Invited seminar, Imperial College-Wye, England, August 2003.

Piggott, N.E. and T.L. Marsh "Does Food Safety Information Impact U.S. Meat Demand?" Invited plenary paper, 47th Annual Conference of Australian Agricultural and Resource Economics Society, Fremantle, W.A., February 2003.

Piggott, N.E. "The Jones Act and the Impact on the Southeast U.S. Feed Industry: An Opportunity." International Seminar: *Perspectives and Realities of the Argentine Agri-food Sector*, Sheraton Libertador Hotel, Buenos Aires, Argentina, November 27th, 2002.

Piggott, N.E. "U.S. Foreign Trade in Soybeans: Some Important Economic Relationships and Trends." International Seminar: *U.S. Agri-food Production, Policy and Trade at the Food and Agribusiness Program*, School of Agronomy, University of Buenos Aires, Argentina, November 30, 2002.

Alston, J.M., J.A. Chalfant, and N.E. Piggott. "Advertising and Consumer Welfare: Scaling versus Translating." Invited plenary paper presented to the 41st Annual Conference of Australian Agricultural and Resource Economics Society, Gold Coast, 20 January 1997.

### Domestic

Piggott, N.E. "Production Distortions and Implications for U.S. Row Crop Acreage and Prices." Subsidized Crop and Revenue Insurance: Implications for Agriculture in the WTO, Symposium of International Agricultural Trade Research Consortium, San Diego, CA, December 2012.

Goodwin, B.K., N.E. Piggott and J. Cooper. "Modeling Market Linkages, Policy, and Acreage Responses in a New Market Environment." Economic Research Service Workshop, March 2012.

Taylor M, D.J Phaneuf, and N.E Piggott, "Food Safety Information Impacts On within-Species Purchase Decisions" Invited paper, AAEA Organized Symposium, Applying Household Scanner Data to Food and Nutrition Economics Research, Annual AAEA Meetings Denver, CO, 2010.

Piggott, N.E. and B. K. Goodwin. "Modeling Acreage Response in a New Policy and Price Volatility Environment." Invited paper, Organized Symposium, A Risky Business How New 2008 Farm Act Programs Affect Production Under Risk and Uncertainty in a New Market Environment, 2009 AAEA & ACCI Meetings, Milwaukee, WI, July 2009.

Piggott, N.E., C. Zhen, R. H. Beach, and M.K. Wohlgenant. "The Impact of Pork Advertising on

US Meat Demand in the Presence of Competing Beef Advertising and Food Safety Events.” Invited paper, NEC-63 meetings, Hilton Head, SC, March 14, 2008.

Piggott N.E., K. Jefferson, B.K. Goodwin, A. Bekkerman. “The Economics of a Check-off to Indemnify Soybean Rust in the U.S. Soybean Industry.” Presented at the AARES Organized Symposium at the 2008 AAEA Meetings, Orlando, July 2008.

Wohlgenant M.K. C. Zhen, Piggott, N.E., and R. H. Beach “Returns to Pork Producers from Marketing and Production Research.” Invited paper, NEC-63 meetings, Hilton Head, SC, March 14, 2008.

Piggott, N.E., C. Zhen, R. H. Beach, and M.K. Wohlgenant. “The Impact of Pork Advertising on US Meat Demand in the Presence of Competing Beef Advertising and Food Safety Events.” Selected paper, AAEA meetings, Portland, July 2007.

Piggott, N.E. “Defining and Managing Risk in Agriculture.” Invited presentation at Monsanto Symposium on Climate Change, St Louis, MO, March 2, 2007.

Piggott, N.E. “Defining Risk Management.” Invited presentation at “Communications in IPM: Risk Management and Integrated Pest Management.” Watergate Hotel, Washington DC October 3-4, 2006

Piggott, N.E. “Economics of Plant Breeding.” Invited Seminar, Department of Crop Science, NCSU, Raleigh, March 15, 2006.

Marra, M.C. and N.E. Piggott. “Non-Pecuniary Characteristics of Crop Biotechnologies: A New Look at the Evidence.” Invited seminar, Center for Plant Health Science and Technology, USDA\_APHIS-PPQ, Raleigh, September 14, 2005.

Goodwin, B.K. and N.E. Piggott. “Spatio-Temporal Modeling of Asian Citrus Canker Risks: Implications of Indemnification Funds and Insurance Program Premiums.” Invited seminar, Center for Plant Health Science and Technology, USDA\_APHIS-PPQ, Raleigh, September 14, 2005.

Marra, M.C. and N.E. Piggott. “Non-Pecuniary Characteristics of Crop Biotechnologies: A New Look at the Evidence.” Invited paper, annual meeting of NC-1003, Washington, DC, March 2005.

Piggott, N.E. “Alternatives to Marketing North Carolina Commodities.” Morning General Session, 15th Annual Joint Conference of the North Carolina Corn, Small Grain, and Soybean Association, New Bern, North Carolina January 15, 2004.

Piggott, N.E. “Marketing Strategies Under the New Farm Bill.” Invited presentation to the New Visions for Agriculture Joint Conference of North Carolina Soybean, Corn Growers & Small Grain Association, New Bern, North Carolina, January 17, 2003.

Piggott, N.E. "Some Economic Issues and Outlook for North Carolina Grain Markets." Invited Presentation to the Thirteenth Annual Joint Conference and Agricultural Expo of North Carolina Corn Growers, Small Grain Growers, and Soybean Producers, Raleigh North Carolina, January 11, 2002.

Piggott, N.E. "Economic Impact of a Repeal of the Jones Act for North Carolina Soybean Producers." Presentation to the Board of Directors of the North Carolina Soybean Producers, Raleigh, July 2001.

Piggott, N.E. "Some Economic Issues Important to North Carolina Soybean Producers." Presentation to the Board of Directors of the North Carolina Soybean Producers, Raleigh, January 2000.

Piggott, N.E. "The Benefits and Costs of Generic Advertising of Agricultural Commodities." Presentation to the Food Distribution Research Society Annual Conference for the Applebaum Outstanding Ph.D. Dissertation Award, Monterey, CA, October 1998.

#### **PEER REVIEWER FOR THE FOLLOWING JOURNALS**

Agricultural Economics  
American Journal of Agricultural Economics  
Australian Journal of Agricultural Economics  
Canadian Journal of Agricultural Economics  
Empirical Economics  
European Review of Agricultural Economics  
Journal of Agricultural and Applied Economics  
Journal of Agricultural and Resource Economics  
Journal of Financial Econometrics  
HortTechnology  
Physica A  
Review of Agricultural Economics  
Review of Marketing and Agricultural Economics

#### **PEER REVIEWER FOR THE FOLLOWING AGENCIES**

Risk Management Agency, USDA  
Economic Research Service, USDA  
National Science Foundation  
Southern Region Risk Management Education Center

#### **EXTRAMURAL FUNDING**

Total Awards=33; Totaling: \$1,915,744

Principal Investigator, "On-Farm Grain Storage in North Carolina," Corn Growers Association of North Carolina, 02/01/2023 – 01/31/2024, \$63,867

Co-Principal Investigator, "Improving Bt resistance management through yield comparison of Bt and non-Bt," (with Dominic Reisig, Zachary Brown, Rod Rejesus, Ryan Heiniger) US

Department of Agriculture-National Institute of Food and Agriculture, 09/01/2021 – 08/31/2024, \$65,526

Co-Principal Investigator, “Yield and Cost Comparison of Non-Bt and Bt Hybrids,” (with Dominic Reisig, Zachary Brown, Rod Rejesus, Heidi Schweizer) North Carolina Corn Growers Association, 02/01/2021 – 01/31/2022, \$10,000.

Co-Principal Investigator, “North Carolina Corn Basis Fundamentals (Year 2),” (with Heidi Schweizer) North Carolina Corn Growers Association, 04/15/2020 – 04/14/2021. \$39,200.

Co-Principal Investigator, “North Carolina Corn Basis Fundamentals,” (with Heidi Schweizer) North Carolina Corn Growers Association, 6/01/2019 – 5/31/2020, \$24,900.

Principal Investigator, “Regionally Grown Grain Sorghum: Next Steps To Increasing Yield And Grower Profit: Second Phase Economic Funding,” Murphy Brown LLC, North Carolina, 6/14-6/15, \$25,619.

Principal Investigator, “Supplying Feedstocks Derived from North Carolina Crops to Manufacturing Facility Located in South Central Virginia,” Danville Regional Foundation, 1/2014-3/2014, \$55,000.

Co-Principal Investigator, “Increasing Feed Grain Production in North Carolina” (with Michele Marra, Kelly Zering, Barry Goodwin), Murphy Brown LLC, North Carolina, 6/11-6/13, \$115,810.

Co-Principal Investigator, “Further Exploration of the Corn Price-Yield Relationship,” (with Barry Goodwin and Michele Marra), Iowa Corn Promotion Board and Iowa Corn Growers Association, 2/12-5/12, \$12,000.

Co-Principal Investigator, “Modeling U.S. Farm Policy in a New Market Environment” (with Barry Goodwin), Economic Research Service, 6/08-6/10, \$50,000.

Co-Principal Investigator, “A Feasibility Analysis of Indemnification Plans for the Management of Soybean Rust” (with Barry Goodwin and Kenrett Y. Jefferson-Moore), Economic Research Service, 8/06-8/08, \$82,000.

Co-Principal Investigator, “A Training Manual for Preparation of a Market Outlook Presentation—Year 2” (with Michele Marra), Southern Region Risk Management Education Center, 6/06-6/07, \$16,675.

Co-Principal Investigator, “A Training Manual for Preparation of a Market Outlook Presentation” (with Michele Marra), Southern Region Risk Management Education Center, 6/05-6/06, \$39,938.

Co-Principal Investigator, “Helping Ag Agents and Farmers Understand the Effects of Using Multiple Risk Management Tools” (with Michele Marra), Southern Region Risk Management Education Center, 6/04-6/05, \$29,960.

Collaborator, “Integrating Crop Insurance and Marketing—Risk Management Strategy Training Under the New Farm Bill – Phase II” (George Shumaker (PI) and Todd Davis), Southern Region Risk Management Education Center, 6/04-6/05, \$51,572.

Collaborator, “Livestock and Meat Marketing Study: Swine” (Project Leader RTI International, Research Triangle Park, North Carolina and Sub-contractor ARE-NCSU (with Tom Vukina and Michael Wohlgenant)), USDA Grain Inspection Packers and Stockyard Administration, 6/04-6/06, \$465,000.

Co-Principal Investigator, “The Feasibility of Indemnification of Check-off Funded Programs” (with Barry Goodwin and Shavi Makki), ERS-USDA, 8/03-8/05, \$147,506.

Co-Principal Investigator, “The Rubber Hitting the Road—Risk Management Education for Select County Agricultural Agents in North Carolina” (with Michele Marra), Southern Region Risk Management Education Center, 6/03-6/04, \$19,635.

Co-Principal Investigator, “Quantifying the Importance of Basis Risk for Southeastern Grain Producers” (with Russell Lamb), Southern Region Risk Management Education Center, 6/03-6/04, \$23,539.

Co-Principal Investigator, “Analysis of the Economic Importance of Changes in Soybean Use” (with Kelly Zering and Michael Wohlgenant), Soy/Swine Nutrition Program, University of Illinois, 10/02 to 10/03 (Year 4), \$19,976.

Co-Principal Investigator, “Understanding the Economic Impact of Herbicide Tolerant Crop Technology on North Carolina Farmers” (with Michele Marra), NC Biotechnology Center, 8/02-7/03, \$83,837.

Principal Investigator, “Developing a Handbook Entitled: Southern Grain Market Basis for the Southeast and Management Strategies” (collaborators George Shumaker and Charles Curtis), Southern Region Risk Management Education Center, 9/02-9/03, \$41,125.

Collaborator, “Integrating Crop Insurance and Marketing—Risk Management Strategy Training Under the New Farm Bill for Ag Lenders and County Ag Agents” (with George Shumaker (PI) and Charles Curtis, James Novak, Tim Hewitt, Jim Pease), Southern Region Risk Management Education Center, 9/02-9/03, \$57,000.

Co-Principal Investigator, "Estimating the Farm Level Impacts and Aggregate Effects of the Roundup Ready Soybean Adoption" (with Michele Marra and Gerald Carlson), 2/02-2/04 Monsanto, \$50,000.

Co-Principal Investigator, "Risk Management Education and Training for North Carolina Farmers and County Agents" (with Michele Marra and Geoff Benson), 9/01-3/02 Southern Region Risk Management Education Center, \$15,000.

Co-Principal Investigator, "Analysis of the Economic Importance of Changes in Soybean Use" (with Kelly Zering and Michael Wohlgenant), 6/01 to 8/02 (Year 3), Soy/Swine Nutrition Program, University of Illinois, \$37,500.

Principal Investigator, "Some Economic Issues Important to North Carolina Soybean Producers: Extent of Basis Erosion in North Carolina," 4/01-3/02, North Carolina Soybean Producers, \$17,439.

Principal Investigator, "Economic Impact of a Repeal of the Jones Act for North Carolina Soybean Producers," 6/00-6/01, North Carolina Soybean Producers, \$14,231.

Principal Investigator, "Developing Databases to Analyze Some Economic Issues Important to North Carolina Soybean Producers," 5/00-5/01, North Carolina Soybean Producers, \$9,964.

Co-Principal Investigator, "A Tool for Evaluating Pricing and Crop Insurance Strategies for the Southeast," (with Paul Fackler, Barry Goodwin, and Michele Marra), USDA/CSREES, 1/00-3/01 (Year 2), \$84,130.

Co-Principal Investigator, "Analysis of the Economic Importance of Changes in Soybean Use," (with Kelly Zering and Michael Wohlgenant), 11/99 to 8/00 (Year 2), Soy/Swine Nutrition Program, University of Illinois, \$52,311.

Co-Principal Investigator, "A Tool for Evaluating Pricing and Crop Insurance Strategies for the Southeast," (with Paul Fackler, Barry Goodwin, and Michele Marra), USDA/CSREES, 9/99-12/00 (Year 1), \$68,485.

Principal Investigator, "Analysis of the Economic Importance of Changes in Soybean Use" (with Kelly Zering and Michael Wohlgenant), 7/98 to 12/99 (Year 1), Soy/Swine Nutrition Program, University of Illinois, \$27,000.

## **TEACHING**

ARE 415 "Introduction to Commodity Futures Markets" (with Wally Thurman), Spring 2018. Students Enrolled: 31, Overall Student Evaluation of this course: 4.8 out 5.0; Department Average: 4.1 out of 5.0.

ARE 495 "Introduction to Commodity Futures Markets" (with Wally Thurman), Spring 2016. Students Enrolled: 19, Overall Student Evaluation of this course: 4.9 out 5.0; Department Average: 4.1 out of 5.0.

ARE 495 "Introduction to Commodity Futures Markets" (with Wally Thurman), Spring 2014. Students Enrolled: 32; Overall Student Evaluation of this course: 4.9 out 5.0; Department Average: 4.0 out of 5.0.

## **DOCTORAL AND MASTER'S THESES DIRECTED**

### **Doctoral Theses: 37**

#### Current Committee Member (Total=2)

John Robinson, “Topics on Grain Storage in North Carolina” Ph.D. Chair Committee (Prelim Exam Work in Progress)

Kyoungin Choe, “Topics on Corn Market Integration” Ph.D. Committee (Prelim Exam 2/2023)

#### Completed Chair or Co-Chair (Total=5)

Robert Thompson, “The Joint Distribution of Price and Yield and North Carolina Corn Prices,” (Final Exam 11/2021).

Mykel Taylor, “The Impact of Food Safety Information on Consumer Demand for Meat and Poultry: Evidence of Heterogeneous Household Effects.” Chair, (Final Exam 4/2008)

Anton Bekkerman, “Three Essays on Modeling Risk in Fed Cattle Production,” Co-Chair (Final Exam 5/2009)

Huseyin Tasten, “Simulation-Based Estimation of Spatial Price Equilibrium Models and Market Integration.” Co-chair, (Final Exam 5/2003)

Jian Jiang, “The Impact of China’s Expanding Market on the U.S. Soybean Industry.” co-chair of Ph.D. committee, (Final Exam 7/2001)

#### Completed Committee Member (Total=30)

Shu Meng, “Three Essays on Agricultural Commodity Market Linkages” Ph.D, Committee Member (Final Exam 9/2022)

Daemyung Lee, “Food Recalls by FDA, and Its Effects on Stock Returns.” (Final Exam 11/2017)

Dylan Bouchard, “Topics in Agricultural Economics: Spatial Market Integration, Vertical Price Transmission, and Crop Insurance.” (Final Exam 5/2020).

Shenan Wu “Empirical Studies in Price, Risk, and Policy.” (Final Exam 5/2018)

Scott Callahan “Three Essays on the Political Economy of Agricultural Programs.” (Final Exam 10/2017)

Fabio Santeramo, “Three Essays on Applied Aspects of Transaction Costs.” (Final Exam 2/2016)

Yang Wang. “Bayesian Nonparametric Estimation of Yield Distributions.” (Final Exam 4/2017)

Xiaojie Xu, “Causality and Price Discovery: Evidence from U.S. Corn Cash and Futures Prices.”



(Final Exam 5/2015)

Selin Guney, “Modeling Nonlinear Price Relationships in Commodity Markets.” (Final Exam 11/2014)

Ashley Hungerford, “Three Essays in Spatial Economics.” (Final Exam 5/2013)

Stephanie Riche, “Three Essays in Trade and Health.” (Final Exam 11/2013)

Xuan Chen, “Three Essays on Risks of Natural Disasters in the U.S. Forest Sector.” (Final Exam 7/2013)

Sofia Kotsiri, “Three Essays on the Economics of Precision Agriculture Technologies.” (Final Exam 3/2013)

Jieyuan Zhao, “Three Essays on Agricultural Commodity Market Linkages: Volatility Spillovers, Cross Hedging, and Market Integration.” (Final Exam, 9/2012)

Aycan Koksal, “Three Essays on the Interdependence between Cigarette and Alcohol Consumption.” (Final Exam 5/2012)

Hee-Jung Choi, “Three Essays on the Welfare Effects of Organic Milk Introduction.” (Final Exam 4/2011)

Ying-Erh Chen, “Three Essays on A Multiyear Crop Insurance Plan.” (Final Exam 10/2010)

Hernan Tejeda, “Issues Regarding Price Risk in Agricultural Commodity Markets.” (Final Exam 6/2010)

Osman Gulseven, “A Hedonic, Hedonic Metric and Logistic Approach to Estimating Demand for Fluid Milk Products Using Micro-Level Data.” (Final Exam 10/2008)

Joana Girante, “Three Essays on the Production Effects of Decoupled Payments: Do Decoupled Payments Matter for Acres and Yields?” (Final Exam 8/2006)

Eric Belasco, “Three Essays on Modeling Risk in Fed Cattle Production.” (Final Exam 11/2007)

Chen Zhen, “Food Safety, Habits, and Rational Expectations in U.S. Meat Demand.” (Final Exam 8/2006)

Olha Sydorovych, “Valuation of the Environmental Impact of Roundup Ready Soybeans Based on a New Herbicide Risk Index,” (Final Exam 11/2005)

Henry Kuo, “The Determinants of Exit Behavior Under a Structurally Changing Industry: Evidence from the U.S. Swine Industry,” (Final Exam 7/2005)

Peyton Ferrier, “Three Essays on Quality Differentiation.” (Final Exam 8/2004)

John Deal, “The Empirical Relationship Between Federally-Subsidized Crop Insurance and Soil Erosion.” (Final Exam 6/2004)

Yanjun Tian, “Affine Diffusion Modeling of Commodity Futures Price Term Structure.” (Final Exam 7/2003)

Mahmoud Busheri, “Estimation of flexibilities in multistage inverse demand systems.” (Final Exam Fall 2001)

Bailey Norwood, “Pesticide Productivity Bias Due to Unobserved Variables.” (Final Exam 1/2002)

John Russ, “Optimal Hedging Rules for Hog Farmers.” (Final Exam Fall 1999)

Examination Participant (Total=2)

Tullaya Boonsaeng, “Three Essays on the Demand of Imported and Domestic Meat and Livestock in the United States.” (Final Exam Substitute 11/2006)

Carlos Carpio, “Two-Constraints Models of Consumer Demand: An Application to the Demand for Agritourism in the United States.” (Final Exam Substitute 11/2006)

**Master's theses: 1**

Completed Committee Member (Total=1)

Ellis Taylor, “Analysis of Four Cotton Marketing Strategies in Various Market Scenarios.” (completed 5/2000)

**SOFTWARE DEVELOPMENT**

*Saved Seed Calculator*

*Soybean Value Chain Analysis Model V 1.00.*

*Crop Risk Analyzer*

**EXTENSION PUBLICATIONS (BY CATEGORY)**

Books

Piggott, N. E., Shumaker G.A., and C. C. Curtis. “Grain Marketing and Analysis of Basis and Risk Management Strategies for Georgia, North Carolina, and South Carolina.” Publication Number AG-632 North Carolina Cooperative Extension, North Carolina State University, January 2005.

NC State Economist (Total=6)

Piggott, N.E. “Using Corn Basis to Calculate Changes in the Transportation Cost of Importing Corn into North Carolina.” *NC State Economist*, Summer 2018.

Marra M.C., N.E. Piggott, and B.K. Goodwin “The Economic Impact of Corn Rootworm Resistant Traits: Implications of Proposed Higher Refuge Requirements in the US.” *NC State Economist*,

July/August 2013.

Piggott, N.E. and M.C. Marra “The Gain to North Carolina Farmers from the Change to a Natural Refuge for Bollgard II® Cotton.” *NC State Economist*, September/October 2007.

Piggott, N.E. “Farm Policy and the General State of the Farm Economy.” *NC State Economist*, March/April 2006.

Marra M.C., N.E. Piggott, and O. Sydorovych. “The Impact of Herbicide Tolerant Crops on North Carolina Farmers.” *NC State Economist*, March/April 2005.

Piggott, N.E. “Economic Impact of a Repeal of the Jones Act for North Carolina Soybean Producers.” *NC State Economist*, September/October 2001.

Extension Publications Including Electronic Outreach Publications (Total=23)

Piggott, N.E. “Bullish Surprise for Corn and Soybeans with Prospective Plantings” *Corn Growers Association of NC, Newsletter*, April 2021

Piggott, N.E. “2021 Wheat Prices Shaping Up for a Banner Year for North Carolina Wheat Farmers” *Wheatbeat*, NC Small Grain Growers Association, Newsletter, April 2021.

Piggott, N.E. “Bullish Surprise for Corn and Soybeans with Prospective Plantings,” *NC Corn Growers Grain Association, Newsletter*, April 2021.

Piggott, N.E. “Current U.S. Corn Supply and Demand” *Wheatbeat*, NC Small Grain Growers Association, Newsletter, June 2019.

Schweizer H. and N. E. Piggott “Hurricane Florence Amplifies Feed Grain Deficit” *Wheatbeat*, NC Small Grain Growers Association, Newsletter, October 2018.

Piggott, N.E. “Market Outlook for Corn, Soybeans, and Wheat.” *NC Small Grain Growers Association, Newsletter*, Spring Edition, March 2015.

Piggott, N.E. “Trying to improve local grain basis in North Carolina as the deficit grows,” *Wheatbeat*, NC Small Grain Growers Association, Newsletter, February 2020.

Piggott N.E. “The Coronavirus and Potential Impacts on the Agricultural Economy,” *NC State Extension*, April 13, 2020.

Piggott N.E. and R. Rejesus. “Decision-Making Process for Flood-Damaged Crops due to Hurricane Florence,” *Agricultural Policy and Risk Management Brief*, September 19, 2018.

Piggott N.E. and H. Schweizer. “North Carolina’s Livestock Numbers, Feed Needs, and Transportation Logistics” *ARE-NCSU Extension Page*, Hurricane Florence Recovery Resources, September 2018.

Piggott, N.E. “Crop Planting Decision Tool,” NCSU Grain Marketing Page, March 2018.

Bernstein B. and N.E. Piggott “Murphy Brown White Paper–Impact of Current Grain Pricing on Local Feed Grain Availability.” June 2014.

Piggott N.E. “Economic Analysis of Double Cropping Grain Sorghum and Soybeans for 2014 Planting In North Carolina.” February 2014.

Piggott N.E. “Economic Analysis of Double Cropping Grain Sorghum and Soybeans for 2013 Planting In North Carolina.” May 2013.

Piggott N.E., and M.C. Marra “Developing An Outlook Talk: Lessons in Supply and Demand” Posted 3/2008.

Piggott N.E., and B.K. Goodwin, “Price Risk Management–Corn And Soybean Basis Probability Density Functions For North Carolina” (Posted December 2006)

Piggott N.E., and B.K. Goodwin, “North Carolina Corn and Soybean Basis Estimates.” (Posted December 2006)

Piggott N.E., M.C. Marra, B.K. Goodwin, P.L. Fackler, and D. Denaux. “Comprehensive Risk Management Strategies: Putting it All Together.” Posted 7/2006.

Marra M. C. and N. E. Piggott. “The Non-Pecuniary Value of Crop Biotechnologies.” Posted 12/21/2005.

Piggott, N.E. “NC State Grain Marketing Homepage.” 1998-present. Approximately 5,000. pages views annually (75,000 visits since 1998)

Piggott, N.E. “U.S. Soybean Situation and Outlook for 2004/2005.” 2004 Southern Region Agricultural Outlook Conference, September 27, Atlanta, Georgia, 2004.

Piggott, N.E. “Economic Impact of a Repeal of the Jones Act for North Carolina Soybean Producers.” Policy brief written for the benefit of North Carolina Soybean Producers, Department of Agricultural and Resource Economics, North Carolina State University,

Piggott, N.E. “Oilseed Situation and Outlook,” 2000 Southern Region Agricultural Outlook Conference, September 25-27, Atlanta, Georgia, 2000.

Piggott, N.E. “Grain and Oilseed Situation and Outlook 2001,” South Carolina Agricultural Situation and Outlook 2000-01, February 2001.

Piggott, N.E. “U.S. Soybean Situation and Outlook for 2004/2005.” Prepared for Ag First Farm Credit Bank published and distributed to clients in AL, DE, FL, GA, KY, LA, MD, MS, NC, OH, PA, SC, TN, and VA.

Piggott, N.E. "U.S. Soybean Situation and Outlook for 2004/2005." Proceedings of the 2004 Southern Region Agricultural Outlook Conference, September 27-29th, 2004, Atlanta, Georgia.

Piggott, N.E. "U.S. Soybean Situation and Outlook for 2002/2003." Prepared for Ag First Farm Credit Bank published and distributed to clients in AL, DE, FL, GA, KY, LA, MD, MS, NC, OH, PA, SC, TN, and VA.

Marsh, T.L. and N.E. Piggott. "Impact of Food Safety on Beef Demand," Cattlemen's Day, Report of Progress, Kansas State University Agricultural Experiment Station and Cooperative Extension Service, 2002.

Piggott, N.E. "U.S. Soybean Situation and Outlook for 2001/2002." Prepared for Ag First Farm Credit Bank published and distributed to clients in AL, DE, FL, GA, KY, LA, MD, MS, NC, OH, PA, SC, TN, and VA.

Piggott, N.E. "U.S. Soybean Situation and Outlook for 2000/2001." Prepared for Ag First Farm Credit Bank published and distributed to clients in AL, DE, FL, GA, KY, LA, MD, MS, NC, OH, PA, SC, TN, and VA.

Piggott, N.E. "Soybean Update and Outlook." Guilford County Field Crop News, NCCES, October 2000.

Piggott, N.E. "North Carolina Soybean and Corn Prices with Basis 1980-1998." Department of Agricultural and Resource Economics, North Carolina State University.

Piggott, N.E. "Grain Outlook," published in Financial Stress in North Carolina Agriculture, 1998-99.

*Selected Media Articles (not necessarily complete) that have used research and extension materials (Total=56)*

Southeast FarmPress, December 13, 2021

"A Profitable 2022, but with a caveat" (John Hart)

NC State CALS Magazine, Fall 2020

"Risk and Resilience," (Dee Shore)

Southeast FarmPress, February 5, 2020

"Trying to improve local grain basis in North Carolina as the deficit grows" February 2020 (John Hart)

Southern Farm Network, April 22, 2020

"COVID-19 Takes Farmers, Food Manufacturers, and Consumers Into 'Uncharted Waters'" (Dee Shore)

Southeast Farm Press, April 22, 2020

“Agricultural Economy Goes to Uncharted Waters,” (John Hart)

CALS Magazine, Fall 2020

“Risk and Resilience” by Dee Shore

Southeast FarmPress, February 5, 2020

“Trying to improve local grain basis in North Carolina as the deficit grows” (John Hart)

WBT 1110AM, June 15, 2018

“Impact of Importing Feed for NC Livestock Production” (Mark Thomas)

Southeast FarmPress, February 18, 2019

“North Carolina needs to produce more of its own feed grains” (John Hart)

Southern Farm Network, November 2, 2016

“To Harvest, or Not to Harvest Flooded Crops” (Rhonda Garrison)

Southern Farm Network, April 15, 2016

“NC Producers Respond to Market Conditions and Market Availability“ (Rhonda Garrison)

Southern Farm Network, April 14, 2016

“NC Producers to Support their own with Feed Grains in 2016“ (Rhonda Garrison)

Southern Farm Network, February 22, 2016

“February WASDE Didn’t Do Much for the Markets“ (Rhonda Garrison)

Southern Farm Network, February 19 2016

“Most Profitable Acres in 2016 Will Be Grain Acres“ (Rhonda Garrison)

Southern Farm Network, February 16, 2016

“Blacklands Farm Managers Annual Business Meeting“ (Rhonda Garrison)

Southern Farm Network, September 11, 2015

“The Link Between the US and Chinese Economies“ (Rhonda Garrison)

Southern Farm Network, September 10, 2015

“Attachment of Chinese and US Economies Explained“ (Rhonda Garrison)

Southern Farm Network, March 5, 2015

“The Argument for and Against Planting Corn this Year” (Rhonda Garrison)

Southern Farm Network, March 26, 2015

“It Comes Down to the Soil“ (Rhonda Garrison)

Southern Farm Network, March 25, 2015

“Farming Profitably in 2015 is Going to Take a Really Sharp Pencil“ (Rhonda Garrison)

Southern Farm Network, March 4, 2015

“Contract Feed Grains Now to Maximize Profit Potential” (Rhonda Garrison)

Southeast Farm Press, February 18, 2015

“North Carolina must develop ports to expand Ag trade” (John Hart)

Southern Farm Network, November 20, 2014

“Livestock Industry Poised to Expand” (Rhonda Garrison)

Southern Farm Network, November 19, 2014

“Corn and Soybeans Could See Price Rebound in Next Marketing Year” (Rhonda Garrison)

Southern Farm Network, February 21, 2014

“Ag Economist Puts A Pencil To Double-Cropping Options” (Rhonda Garrison)

Southern Farm Network, October 2, 2013

“Sale of Smithfield Creates Long-Term Security For Livestock & Row Crop Farmers”  
(Rhonda Garrison)

Southern Farm Network. May 29, 2013

“Report Outlines Cost Analysis of Grain Sorghum Versus Soybeans as a Double Crop”  
SFNToday Reporter

Southern Farm Network, February 1, 2013

“NC State Economist Excited About Ag” (Rhonda Garrison)

Southern Farm Network, January 22, 2013

“Ag Forum Scheduled During Southern Farm Show” (SFNToday Reporter)

Southern Farm Network, January 15, 2013

“Ag Forum Will Offer Economic And Policy Outlook January 31 At State Fairgrounds”  
(SFNToday Reporter)

American Farm Bureau Federation, January 2012

“High Volatility, ‘Fierce’ Acreage War Ahead for Growers” (Tracy Taylor Grondine and  
Mace Thornton).

Carolina-Virginia Farmer, March 2008.

“Corn, wheat, soybeans are facing most favorable marketing in 25 years” (Richard Davis)

Virginia-Pilot, July 1, 2007

“North Carolina crop costs increase with corn prices” (Jeff Hampton)

Fayetteville Observer, February 11, 2007

“There's gold in the feed lot” (Al Greenwood)

Carolina-Virginia Farmer, April, 2005

“Are you better off than you were four years ago?” (Richard Davis)

Southeast Farm Press, April 13, 2005

“North Carolina farmers garnering benefits from herbicide-tolerant crops” (Cecil H. Yancy Jr.),

Southwest Farm Press, November 9, 2004

“October crop report key to soybean market prospects” (Forrest Laws)

Southwest Farm Press, November 4, 2004

“October crop report key to soybean market prospects” (Forrest Laws)

Delta Farm Press, October 11, 2004

“October crop report key to soybean market prospects” (Forrest Laws)

K-State AgReport, Spring 2004

“That Cow That Stole Christmas” Mad Cow Emergency Highlights K-State’s Expertise, Service to Public (Pat Melgares)

Federal Deposit Insurance Corporation, FDIC Outlook Fall 2004

“The U.S. Agricultural Sector: Recent Events Highlight Ongoing Systemic Risks” (John Anderlik, Richard Cofer, Jeff Walser)

Cooperative Extension Colorado State University, June 2004

“Consumer Response to Beef Due to the December 2003 BSE Incident in the U.S.” (Dawn Thilmany, Wendy Umberger, Amanda Ziehl)

Agricultural & Natural Resources, University of Wisconsin, March 2004

“Economic Implications of ‘mad cow’ in the U.S.” (Brenda Boetel)

Agricultural Extension Service, University of Tennessee, Winter 2004

“Identification/Traceability of Beef Cattle Re-visited, Part II” (Emmitt Rawls)

Beef, February 1, 2004

“Beef Demand Remains Strong” (Stephanie Veldman)

CJOnline.com/ Topeka Capital-Journal, January 4, 2004

“Mad cow disease: Treading carefully” (Amy Bauer)

Texas Farm Bureau, January 2, 2004

“BSE: Ultimate effect unknown on Cattle Prices” (The Cornerpost)

Cattle Today Online, December 2003

“BSE Discovery Presents New Challenge To Beef Industry,” (Stephen B. Blezinger),



Anderson Independent Mail, December 26, 2003

“Local Cattle Farmers Optimistic, But Know Stakes” (Kelly Davis),

AgManager Info, December 26, 2003.

“What Are The Expected Impacts of BSE on U.S. Cattle Markets?” (James Mintert),

Feedlot, August 2003

“What Are The Long-run Effects of BSE on Beef Demand?” (James Mintert),

Southeastern Farm Press, November 15, 2000

“Rising Stocks Pressure Soybeans” (Paul L Hollis)

Southeastern Farm Press, December 20, 2000

“Look for Opportunities” (Paul L. Hollis)

Fayetteville Observer, December 26, 1999

“1999 A Stormy Year in Field” (Paul Woolverton)

Fayetteville Observer, March 22, 1998

“Planting Season to Begin” (Paul Woolverton)

## **EXTENSION WORKSHOPS AND PRESENTATIONS (BY CATEGORY)**

TOTAL: 209

### International (Total=3)

“The Jones Act and the Impact on the Southeast U.S. Feed Industry: An Opportunity.”

International Seminar: *Perspectives and Realities of the Argentine Agri-food Sector* at the Sheraton Libertador Hotel in Buenos Aires, November 27, 2002

“U.S. Foreign Trade in Soybeans: Some Important Economic Relationships and Trends.”

International Seminar: *U.S. Agri-food Production, Policy and Trade* at the Food and Agribusiness Program, School of Agronomy, University of Buenos Aires, Argentina, November 30, 2002.

“The Jones Act and the Impact on the Southeast U.S. Feed Industry: An Opportunity?”

International Seminar: *U.S. Agri-food Production, Policy and Trade* at the Food and Agribusiness Program, School of Agronomy, University of Buenos Aires, Argentina, November 30, 2002.

### National (outside of North Carolina) (Total=30)

“US Agricultural Economy Market Outlook: Corn, Soybeans, Wheat, and Cotton,” Invited Outlook Presentation to Monsanto Company Governmental Affairs, Washington DC, March 12, 2012.

“US Agricultural Economy Market Outlook: Corn, Soybeans, Wheat, and Cotton,” Invited

Outlook Presentation to the South Carolina Farm Bureau Marketing Association Board, Cayce, South Carolina, March 2, 2012.

“US Agricultural Economy Market Outlook: Corn, Soybeans, Wheat, and Cotton,” Invited Outlook Presentation to the South Agricultural Leaders Association Annual Meeting Myrtle Beach, South Carolina, January 23, 2012.

“US Agricultural Economy Market Outlook: Corn, Soybeans, Wheat, and Cotton,” Invited Outlook Presentation to the American Farm Bureau Federation 93rd Annual Convention January 9, 2012, Honolulu, Hawaii

“Risk and Biofuels: Eat Well, Sleep Well” Economic Issues and Outlook Conference, Pasco, Washington, December 6, 2007.

“Grain marketing in the East” Invited presentation at Organized Symposium “What is the Ideal Extension Marketing Program,” American Agricultural Economics Association Meetings, Long Beach, CA, July 2006.

“A Broader Look at Risk Management: Eat Well, Sleep Well” invited presentation at “Energy in Agriculture: Managing the Risk” Kansas City, MO, June 2006.

“U.S. Soybean Situation and Outlook for 2004/05,” presentation at Planning for Profits in 2005, Pierce County, Georgia, January 27, 2005.

“Putting it All Together: Risk Management Decisions,” presentation at Planning for Profits in 2005, Pierce County, Georgia, January 27, 2005.

“U.S. Soybean Situation and Outlook for 2004/05,” presentation at Planning for Profits in 2005, Bulloch County, Georgia, January 26, 2005.

“Putting it All Together: Risk Management Decisions,” presentation at Planning for Profits in 2005,” Bulloch County, Georgia, January 26, 2005.

“U.S. Soybean Situation and Outlook for 2004/05,” presentation at Planning for Profits in 2005, Blackville, South Carolina, January 25, 2005.

“U.S. Soybean Situation and Outlook for 2004/05,” presentation at Planning for Profits in 2005, Florence, South Carolina, January 24, 2005.

“U.S. Soybean Outlook 2004/2005.” Invited paper at the Southern Regional Outlook Conference in Atlanta, Georgia, September 2004.

“Current Topics of Interest in Soybean Complex: BSE and Labeling,” presentation at Planning for Profits in 2004,” Bulloch County, Georgia, March 10, 2004.

“Soybean Outlook and Marketing Issues,” presentation at Planning for Profits in 2004, Bulloch

County, Georgia, March 10, 2004.

“Using Basis to Lock-in Profits,” presentation at Planning for Profits in 2004, Bulloch County, Georgia, March 10, 2004.

“Extension in the 21st Century, Program Areas Delivery, and Clientele—Faculty Perspective.” Invited presentation Southern Extension Meetings, Charleston, South Carolina, June 23, 2003.

“Row Crop Price Outlook—Where are Prices Headed,” presentation at Advanced Marketing Under the New Farm Bill, Rural Development Center, Tifton, Georgia, March 12, 2003.

“Row Crop Price Outlook—Where are Prices Headed,” presentation at Advanced Marketing Under the New Farm Bill, Rural Development Center, Tifton, Georgia, March 12, 2003.

“South American Soybean Production—What are the Implications for the Southeast Region?” presentation at Advanced Marketing Under the New Farm Bill, Georgia Southern University, Statesboro, Georgia March 7, 2003.

“Row Crop Price Outlook—Where are Prices Headed,” presentation at Advanced Marketing Under the New Farm Bill, Georgia Southern University, Statesboro, Georgia, March 7, 2003.

“Overview and Challenges for Risk Management Decisions Under the New Farm Bill,” presentation at Clarendon County, South Carolina, March 6, 2003.

“South American Soybean Production—What are the Implications for the Southeast Region?” presentation at Clarendon County, South Carolina, March 6, 2003.

“Overview and Challenges for Risk Management Decisions Under the New Farm Bill,” presentation at Clarendon County, South Carolina, March 6, 2003

"Oilseed Situation and Outlook," presentation at 2002 AgFirst Agricultural Outlook Conference, Atlanta Georgia, October 31, 2002.

“Soybean Outlook,” invited paper and speaker at the American Agricultural Economics Outlook Symposium at the Annual Meetings, Long Beach, July 2002.

"Soybean Market Outlook," invited presentation at the South Carolina Ag Expo, Columbia, South Carolina, January 2002.

"Soybean Market Outlook," invited presentation at the South Carolina Ag Expo, Myrtle Beach, South Carolina, February 2001.

"U.S. Oilseed Situation and Outlook 2000/2001," invited paper at the Southern Regional Outlook Conference in Atlanta, Georgia, September 2000.

*In North Carolina (Total=176)*

“Output for U.S. Agricultural Economy, Corn, Soybeans, and Wheat with Inflation into 2023,” Western Alamance Farmers Club, Burlington, North Carolina, March 22, 2023

“Output for U.S. Agricultural Economy, Corn, Soybeans, and Wheat with Inflation into 2023,” NC Society of Farm Managers and Rural Appraisers, Raleigh NC, February 22, 2023.

“Outlook for US Agricultural Economy, Corn, Soybeans, and Wheat with Inflation Pressures and Higher Input Prices into 2023”, Bertie, Hertford, Northhampton Counties, Asheboro, January 23, 2023.

“Outlook for US Agricultural Economy, Corn, Soybeans, and Wheat with Inflation Pressures and Higher Input Prices into 2023”, Bertie, Hertford, Northhampton Counties, Lexington, January 23, 2023.

“Outlook for US Agricultural Economy, Corn, Soybeans, and Wheat with Inflation Pressures and Higher Input Prices into 2023”, Bertie, Hertford, Northhampton Counties, Windsor, January 17, 2023.

“Outlook for US Agricultural Economy with Inflation Pressures and Higher Input Prices into 2023”, NC Small Grain Growers Association, Joint Conference, Durham, January 11, 2023.

“The Role of On-Farm Storage in North Carolina Feed Grain Markets”, Corn Growers Association of North Carolina, Joint Conference, Durham, January 11, 2023.

“Projections of Corn Growers Association of North Carolina Assessment Rate for Various Price and Yield Outcomes on the Association Revenues and Costs to Corn Grower for Assessments of 0.30%, 0.35%, 0.375, 0.40%, and 0.45%” NC Corn Growers Board of Directors, January 11, 2023

“Outlook for US Agricultural Economy, Soybeans, Corn, and Livestock for 2022/23” Northeast Ag Expo, College of the Albemarle, December 8, 2022.

“Outlook for US Agricultural Economy, Soybeans, Corn, and Livestock for 2022/23” Hoke County, Zoom, November 8, 2022.

“Evaluation of Corn Growers Association of North Carolina Assessment Rate Past and Future and Comparison with NC Small Grains and Soybean Assessment” NC Corn Growers Board, Raleigh, NC, November 3, 2022.

“Outlook for Soybeans, Corn, and Wheat Market for 2022/23”, Agricultural Economic Issues and Updates, 2022 Extension State Conference, Greensboro, NC, October 3, 2022.

“Evaluation of NC Corn Growers Assessment Rate Past and Future and Comparison with NC Small Grains and Soybean Assessments”, NC Corn Growers Board, Beaufort, NC, August 1, 2022.

“Developing Better Educational Tools for Better Marketing Outcomes—Crop Comparison Tool Some Brainstorming Around Expected Yields”, Advanced Small Grains Training, Raleigh, May 25, 2022.

“Soybean, Corn, and Wheat Market for 2022/23”, Halifax, Hertford, Northampton, and Bertie County Grains Meeting, Zoom, February 24, 2022.

“Soybean, Corn, and Wheat Market for 2022/23”, Hertford County Grains Meeting, Zoom, February 16, 2022.

“Soybean, Corn, and Wheat Market for 2022/23”, Pitt County Grains Meeting, Zoom, February 1, 2022.

“Soybean, Corn, and Wheat Market for 2022/23”, Onslow County Grains Meeting, Zoom, February 1, 2022.

“Soybean, Corn, and Wheat Market for 2022/23”, Onslow County Grains Meeting, Zoom, February 1, 2022.

“Soybean, Corn, and Wheat Market for 2022/23”, Duplin County Grains Meeting, Zoom, February 1, 2022.

“Soybean, Corn, and Wheat Market Update for 2021 and Beyond”, Northeast Ag Expo, Via Zoom, December 2, 2021.

“Soybean, Corn, and Wheat Market Update for 2021 and Beyond”, NC Extension State Conference, Via Zoom, October 25, 2021.

“Insights into Basis and Movement of Corn in NC”, NC Extension State Conference, Via Zoom, October 26, 2021.

“Soybean Marketing Considerations”, Late Season Soybean Management, Via Zoom, September 29, 2021.

“Soybean, Corn, and Wheat Market Update for 2021 and Beyond”, Gibsonville, Alamance County, September 15, 2021

“Soybean, Corn, and Wheat Market Update for 2021 and Beyond”, Gibsonville, Alamance County, “Southeast Regional Field Tour Stop” Maxwell Agriculture Center, Goldsboro, NC, August 31, 2021

“Soybean, Corn, and Wheat Market Update for 2021 and Beyond”, Gibsonville, Alamance County, “Southeast Regional Field Tour Stop” Sampson County Research and Demonstration Plots, Faison, NC, August 13, 2021

“Markets Update and Beyond 2021”, NC Small Grain Growers Association Board Meeting, Wilmington NC, August 19, 2021.

“2021 Soybean Market Update”, March Grains Agronomic Program Team, March 16, 2021 (Zoom)

“2021 Soybean Market Update”, Ag Economics Series, February 16, 2021 (Zoom)

“2021 Soybean Market Update”, Johnston County Soybean Production Meeting, February 16, 2021 (Zoom)

“2021 Grain Market Update”, Grain Marketing: Cost of Growing, Risk Management, and Marketing Outlook,” Pasquotank County, February 4, 2021 (Zoom)

“Grain Market Update,” NC Small Grain Growers Association, January 13, 2021 (Zoom)

“US and NC Situation and Outlook for Corn, Soybean, and Wheat,” ARE Extension Agent Educational Series, November 18, 2020 (Zoom)

“Introduction to Grains and Oilseed Marketing,” with (H. Schweizer and R. Thompson), ARE Extension Agent Educational Series, November 16, 2020 (Zoom)

“Utilizing The Grain Marketing Tool” Wheat Production Series-Part2, Marketing and Weed Control Update, November 6, 2020 (Zoom)

“Impact of the closing of Goldsboro Milling Hog Operations on NC Grain Markets” October Grains Agronomic Program Team Meeting, October 20, 2020.

“Historical NC Basis Corn, Soybean and Wheat Price and Basis Data,” Late Season Soybean Management Webinar, September 11, 2020

“Historical Basis Tool” Late Season Soybean Management Webinar, September 11, 2020 (Zoom)

“2020 Northeast Ag Expo Grain Marketing Webinar,” August 6, 2020.

“Brief the NC Food Supply Chain Task Force, June 4, 2020 (Zoom)

“COVID-19 Ag Comm Roundtable: Update Discussion”, June 2, 2020 (Zoom)

“COVID-19 Ag Comm Roundtable”, May 8, 2020 (Zoom)

“Economic Implications of COVID-19 on Agricultural and Food Systems” NCSU Dean, SAS and NC Farm Bureau, April 29, 2020 (Zoom)

“Agricultural Economic Outlook” NC Farm Bureau, April 27, 2020.

“Economic Outlook” 2020 Zoom Town Hall, NC Farm Bureau, April 13, 2020.

“Introduction to Futures Markets and Hedging,” Goldsboro Wayne County, NC, March 13, 2020

“US and NC Crops Update,” Invited Speaker at 31st NC Commodities Conference Sheraton Imperial Hotel, Durham, NC January 10, 2020.

“Farmer’s Breakfast and Panel Discussion,” Hosted by Congressman David Price’s, Raleigh NC December 16, 2019.

“North Carolina Agriculture Update,” NC Small Grain Growers Association, Raleigh, NC December 5, 2019.

“North Carolina Corn Basis Fundamentals,” Project Update to NC Corn Growers, November 7, 2019.

“US and NC Agricultural Outlook,” Contemporary Market and Environmental Issues Affecting NC Agriculture NC Cooperative Extension State Conference, October 30, 2019.

“Update on North Carolina Feed Grain Deficit,” NC Animal Agriculture—Economic Update, NC Cooperative Extension State Conference, October 29, 2019.

“Participated in a Listening Session and Q & A” with Secretary Purdue and Senator Tillis, October 9, 2019.

“US and NC Outlook for Corn, Soybeans, and Wheat,” Southeast Regional Field Tour, Robeson County, September 20, 2019.

“Fundamentals for New Extension Agents,” Agent on Boarding, NC Farm Bureau, Raleigh NC, September 10, 2019

“US and NC Agricultural Outlook,” NC Soybean Producers Association, July 12, 2019.

“Participant and Speaker in NC Feedgrain Summit,” University Club Raleigh, NC, July 10, 2019.

“US and NC Agricultural Outlook,” Invited Speaker, Farm Financial Standards Council: Nothing Could Be Finer, Raleigh, NC, July 25, 2019.

“US and NC Agricultural Outlook,” Invited Speaker, Soft Wheat Quality Laboratory Annual Review, Raleigh NC, April 23, 2019.

“Increasing Feed Grain Production in North Carolina,” Meeting with Smithfield Executives, March 19, Rosehill, NC

“US and NC Agricultural Outlook,” Invited Q and A follow-up, NC General Assembly’s House, Agriculture Committee, March 6, 2019.

“US and NC Agricultural Outlook,” Invited Presentation, NC General Assembly’s House, Agriculture Committee, February 13, 2019.

“US and NC Agricultural Outlook,” Presentation to the Executive Farm Managers Program, February 1, 2019.

“North Carolina Agricultural Economic Outlook” Invited keynote speaker, 14th Annual Ag Development Forum Governor Holshouser Building Raleigh, January 31, 2019.

“US and NC Agricultural Outlook,” Extension meeting, Edenton NC, January 28, 2019.

“Crop Comparison Tool,” Training to Cotton Ag Agents, Wilson County, Wilson, January 23, 2019

“Increasing Feed Grain Production in North Carolina: A Role for Sorghum,” 2018 Cochran Training Program with Peru, Ecuador, and Venezuela on U.S. Sorghum Exposure and Utilization, NCSU, October 8, 2018.

“US and NC Outlook for Corn, Soybeans, and Wheat,” NC Small Grain Growers Association Board, Hickory, NC, August 9, 2018

“Marketing for NC Crops” Advanced Small Grains Short Course, Raleigh, February 8, 2018

“US and NC Outlook and Expected Profitability: Corn, Soybeans, and Wheat,” North Carolina Corn Board Meeting, March 15, 2018

“US and NC Outlook for Corn, Soybeans, and Wheat,” 2018 Soybean Production Meeting, February 15, 2018

“Putting it All Together: Risk Management Decisions,” North Carolina Winegrowers Association  
2018 Annual Conference and Meetings, Winston-Salem, February 2, 2018

“US and NC Outlook for Corn, Soybeans, and Wheat,” NC Small Grain Growers Association Raleigh, December 7, 2017

“Update on Increasing Feed Grain Production in North Carolina,” Smithfield, Raleigh, NCSU Patterson Hall, December 6, 2017

“US and NC Outlook for Corn, Soybeans, and Wheat,” Online to Executive Farm Management Program April 5, 2017

“US and NC Outlook for Corn, Soybeans, and Wheat,” Maury, Greene County, January 22, 2017



“US and NC Outlook for Corn, Soybeans, and Wheat,” CCA Training, Johnston County Ag Center, Smithfield, NC, December 13, 2016.

“US and NC Outlook for Corn, Soybeans, and Wheat,” North Carolina Small Grain Growers Association, Raleigh, NC, December 8, 2016.

“Economic Outlook for US and NC Small Grains,” North Carolina Small Grain Growers Association, Washington, NC, August 4, 2016.

“Increasing Feed Grain Production in North Carolina” CALS Partners Meeting, McKimmon Center for Extension & Continuing Education, March 8, 2016.

“Agricultural Economic Outlook for Corn, Soybeans, and Wheat,” Lee County Area Farmers, Belhaven, NC, February 16, 2016.

“Agricultural Economic Outlook for Corn, Soybeans, and Wheat,” Annual Meeting NCCIA-NCFSPI-NCSA Raleigh, NC, January 29, 2016

“Agricultural Economic Outlook for Corn, Soybeans, and Wheat,” Onslow County Area Farmers Jacksonville, NC, January 19, 2016

“Agricultural Economic Outlook for Corn, Soybeans, and Wheat,” Lee County Area Farmers, Sanford, NC, March 12, 2015.

“Agricultural Economic Outlook for Corn, Soybeans, and Wheat,” Duplin Co. Extension Center, Kenansville, NC, February 3, 2015.

“Agricultural Economic Outlook for Corn, Soybeans, and Wheat,” Blackland Farm Managers Association, Vernon James Center, Plymouth, NC January 29, 2015.

“NC Row Crop Farm Outlook for Corn, Soybeans, Wheat & Sorghum” Murphy Brown Mid-Atlantic Feed Grain Initiative Stakeholders Meeting – Status and Update Rose Hill, December 17, 2014.

“Agricultural Economic Outlook for Corn, Soybeans, and Wheat,” Southern States Williamston, NC December 10, 2014.

“Agricultural Economic Outlook for Corn, Soybeans, and Wheat,” CCA Training Jacksonville, NC December 10, 2014.

“Agricultural Economic Outlook for Corn, Soybeans, and Wheat,” CCA Training Jacksonville, NC December 10, 2014.

“Agricultural Economic and Policy Outlook,” Farmers Appreciation Dinner, Todd Glover Farms, Wilson, NC, December 1, 2014.

“Agricultural Economic and Policy Outlook,” Cape Fear Farm Credit Planning Session/Board Meeting Hilton Wilmington Riverside, Wilmington NC October 29, 2014.

“Update on the NC Feed Grains Initiative: NCSU Economics” 3-year Wrap Up Meeting 512 Brickhaven Room 152, NCSU, October 17, 2014

“Agricultural Economic Outlook, Ag Policy & Trade” North Carolina Small Grain Association, Sheraton Imperial Hotel Durham, NC, December 5, 2013

“Agricultural Economic Outlook, Ag Policy & Trade” BB&T Farmer Appreciation Dinner, Halifax County Extension Office, December 3, 2013

“US Agricultural Economy Market Outlook: Corn, Soybeans, Wheat, and Cotton,” NC Extension Conference McKimmon Center NCSU, Raleigh, November 5, 2013.

“North Carolina Grain Initiative,” Mid Atlantic Animal Feed Grains Stakeholder Meeting NC Biotechnology Center, RTP, March 22, 2013.

“Agricultural Economic and Policy Outlook” Invited keynote speaker, 8th Annual Ag Development Forum Governor Holshouser Building Raleigh, January 31, 2013.

“US Agricultural Economy Market Outlook: Corn, Soybeans, Wheat, and Cotton,” Mebane, Alamance County, August 2012.

“Long Term Planning Talking Points for NC Small Grain Growers Association Inc. (NCSGGA): Some Brainstorming and Random Thoughts,” Invited Presentation to NC Small Grain Growers Association Board, Raleigh, July 26, 2012

“NC (Southeast) Grain Production and Storage Increasing Feed Grain Production in a Grain-Deficit Region for the Long-Term Viability of the NC Livestock Production,” Presentation to NC Agricultural Advancement Consortium, NC Rural Center, Raleigh, May 3, 2012.

“US Agricultural Economy Market Outlook: Corn, Soybeans, Wheat, and Cotton,” Swan Quarter, Hyde County, March 1, 2012.

“US Agricultural Economy Market Outlook: Corn, Soybeans, Wheat, and Cotton,” Hyde County, February 27, 2012.

“US Agricultural Economy Market Outlook: Corn, Soybeans, Wheat, and Cotton,” Greene County, February 21, 2012.

“US Agricultural Economy Market Outlook: Corn, Soybeans, Wheat, and Cotton,” Invited Presentation to the North Carolina Small Grain Growers Association, Raleigh, December 9, 2011.

“US Agricultural Economy Market Update: Corn, Soybeans, and Wheat,” Invited Presentation at Ag Development Forum, Raleigh, February 3, 2011.

“US Agricultural Economy Market Update: Corn, Soybeans, and Wheat,” Invited Presentation to NASS staff, Greensboro, May 11, 2010.

“US Agricultural Economy Market Update: Corn, Soybeans, and Wheat,” Invited Presentation to NC Commissioner of Agriculture and NCDA staff, Raleigh, March 22, 2010.

“US Agricultural Economy Market Update: Corn, Soybeans, and Wheat,” Pasquotank County, February 25, 2010.

“US Market Update: Corn, Soybeans, and Wheat,” Board Meeting, North Carolina Small Grain Growers Association, Raleigh, December 2009.

“Risky Business,” Monsanto Fellows in Plant Breeding 2009 Professional Development Program, Managing Innovation in Plant Breeding and Technology Enterprises, North Carolina Research Campus, Kannapolis, NC, September 23, 2009

“Putting It All Together: Risk Management Decisions,” Growing the Future Today, Brownstone Hotel, Raleigh, June 2009.

“Putting It All Together: Risk Management Decisions,” Tri-County (Perquimans, Chowan, and Gates), Hertford, March 19, 2009.

“US Grains and Soybeans: Supplies, Prices, and the Outlook for 2009/10”, Tri-County (Perquimans, Chowan, and Gates), Hertford, March 19, 2009.

“The Role of Agriculture in US Energy Production,” The Cypress of Raleigh, February 26, 2009.

“U.S. Corn, Soybean, and Wheat Situation and Outlook for 2008/2009”, Bertie County, February 3, 2009.

“U.S. Corn, Soybean, and Wheat Situation and Outlook for 2008/2009”, Duplin County, February 2, 2009.

“State of the Agricultural Economy and Outlook for Corn, Soybeans, and Wheat,” Invited Presentation to NC Commissioner of Agriculture and NCDA staff, Raleigh, January 26, 2009.

“State of the Agricultural Economy and Outlook for Corn, Soybeans, and Wheat,” NC Small Grain Growers, Raleigh, December 12, 2008.

“Some Basic Economics of Corn Based Ethanol Production,” Halifax County, November 6, 2008.

“Some Basic Economics of Corn Based Ethanol Production,” Northhampton County, November 5, 2008.

“State of the Agricultural Economy” Presentation to Monsanto Fellows in Plant Breeding Program, Raleigh, September 9, 2008.

“U.S. Corn, Soybean, and Wheat Situation and Outlook for 2008/2009”, Syngenta, Greensboro, September 5, 2008.

“U.S. Corn, Soybean, and Wheat Situation and Outlook for 2008/2009” Sampson County, March 27, 2008.

“U.S. Corn, Soybean, and Wheat Situation and Outlook for 2008/2009” Chowan, Perquimans, and Gates Counties, March 6, 2008.

“U.S. Corn, Soybean, and Wheat Situation and Outlook for 2008/2009” Plymouth, January 22, 2008

“Grain Marketing: Basics of Futures Markets and Hedging” Plymouth, January 21, 2008

“U.S. Corn and Soybean Situation and Outlook for 2006/2007” Chowan County, January 26, 2007

“U.S. Corn and Soybean Situation and Outlook for 2006/2007” Bertie County, Field Grain Conference, January 26, 2007

“Outlook for Soybeans and Putting it All Together,” presentation at Planning for Profits in 2005, Perquimans County, January 20, 2005.

“Outlook for Soybeans and Putting it All Together,” presentation at Planning for Profits in 2005, Pitt County, January 21, 2005.

“Talking Points: Biodiesel, LLC Business Plan,” invited presentation to the Biodiesel Oversight Committee, Morrisville, September 2004.

“Soybean Outlook and Marketing Issues,” Joint County Meeting Duplin/Sampson County, Warsaw, January 29, 2004.

“Overview and Challenges for Risk Management Decisions,” presentation at the Risk Management Under the New Farm Bill Conference,” Greenville, January 23, 2003.

“Marketing Strategies Under the New Farm Bill,” presentation to the New Visions for Agriculture Joint Conference of North Carolina Soybean, Corn Growers & Small Grain Association, New Bern, January 17, 2003.

"The 2002 Farm Bill and Marketing Strategies," presentation to Phillip Morris Leadership Program, Raleigh, October 17, 2002.

"The 2002 Farm Bill and Marketing Strategies," presentation to County Agents and lenders at the 2002 Farm Bill Workshops, Agricultural and Resource Economics Extension Faculty, NCSU, Greensboro, September 19, 2002.

"The 2002 Farm Bill and Marketing Strategies," presentation to County Agents and lenders at the 2002 Farm Bill Workshops, Agricultural and Resource Economics Extension Faculty, NCSU, Greenville, September 20, 2002.

"Grain Marketing and Soybean Outlook," presentation to Farmers in Perquimans, Chowan, and Gates County, Edenton, February 27, 2002.

"Grain Marketing and Soybean Outlook," presentation to Lee County Farmers, Sanford, February 26, 2002.

"What is Driving Agricultural Commodity Markets? Formulating an Outlook for an Agricultural Commodity and Marketing Strategies," presentation for in-service Ag Agent Training Workshop Entitled the Value of Information in Risk Management in Agriculture: Keep Up or Get Out, Greenville, January 29, 2002.

"Some Economic Issues and Outlook for Grain Markets," presentation to the Thirteenth Annual Joint Conference and Agricultural Expo of North Carolina Corn Growers, Small Grain Growers, and Soybean Producers, Raleigh, January 11, 2002.

"Soybean Marketing," presentation to farmers in Yadkin County, Yadkinville, March 28, 2001.

"Evaluating Alternative Producer Marketing Contracts," presentation to farmers in Guilford County, Greensboro, March 28, 2001.

"Grain and Oilseed Market Outlook," presentation to farmers in Gates County, Gatesville, March 14, 2001.

"Grain and Oilseed Market Outlook," presentation to farmers in Guilford County, Greensboro, March 12, 2001.

"Grain and Oilseed Market Outlook," presentation to the Agricultural Lenders Conference, Raleigh, February 7, 2001.

"Research and Extension Efforts in the Department of Agricultural and Resource Economics at North Carolina State," as part of the Soybean Overview, Raleigh, February 6, 2001.

"Grain Market Outlook and Marketing," providing training to certified crop agents at Forsythe Extension Office, December 8, 2000.

“North Carolina Grain Marketing Homepage,” a presentation to the Phillip Morris Leadership Program, Raleigh, December 5, 2000.

Attended the USDA Risk Management Agency listening session and provided testimony, September 20, 2000.

“U.S. Oilseed Situation and Outlook 2000/2001,” Invited paper at the Southern Regional Outlook Conference in Atlanta, Georgia, September 25, 2000.

"Grain Market Outlook," a presentation to farmers in Pasquotank County, Elizabeth City, September 12, 2000.

"Grain Marketing and Managing Price Risk," a presentation to North Carolina Bankers Association, May 25, 2000.

"Grain Marketing and Managing Price Risk," a presentation as part of the Master Farm Management Seminar, Raleigh, January 27, 2000.

“Some Economic Issues Important to North Carolina Soybean Producers,” a presentation to the board meeting of the North Carolina Soybean Producers, Raleigh, January 19, 2000.

"Grain Marketing and Managing Price Risk," a presentation to farmers in Harnett County, Lillington, March 10, 2000.

"Managing Price Risk and Grain Market Outlook," a presentation to farmers in Pasquotank County, Elizabeth City, February 25, 2000.

"Managing Price Risk and Grain Market Outlook," a presentation to farmers in Perquimans County, Hertford, February 24, 2000.

"Managing Price Risk and Grain Market Outlook," a presentation to farmers in Craven County, New Bern, February 22, 2000.

"Managing Price Risk and Grain Market Outlook," a presentation to farmers in Pamlico County, Alliance, February 22, 2000.

"Managing Price Risk and Grain Market Outlook," a presentation to farmers in Yadkin and Surry County, Dobson, February 16, 2000.

"Grain Market Outlook," a presentation to farmers in Washington County, Plymouth, February 11, 2000.

"Grain Market Outlook," a presentation to farmers in Lee County, Sanford, February 2, 2000.

"Grain Marketing and Managing Price Risk," a presentation as part of the Master Farm Management Seminar, Raleigh, January 27, 2000.

"Grain Marketing and Managing Price Risk," a presentation as part of series of seminars entitled Knowledge is Wealth sponsored by Tar Heel Farm Credit, Rocky Mount, December 9, 1999.

"North Carolina State Grain Marketing Homepage," a presentation to county agents at Annual Conference in Raleigh, November 18, 1999.

"Forward Price and Hedging to Manage Price Risk," a presentation to faculty of AT&T University at Annual Training, Greensboro, September 14, 1999.

"Grain Market Outlook," a presentation to grain farmers in Pasquotank County, Elizabeth City, April 25, 1999.

"Grain Marketing Strategies to Manage Risk and Market Outlook," a presentation to the Blackland Farm Managers Association, Washington County, Plymouth, March 4, 1999.

"Grain Marketing Strategies to Manage Risk," a presentation to grain farmers in Craven County, New Bern, February 11, 1999.

"Grain Marketing Strategies to Manage Risk and Market Outlook," a presentation to grain farmers in Pasquotank County, Elizabeth City, February 25, 1999.

"Introduction to Hedging and Forward Pricing," a presentation to grain farmers in Cumberland County, Fayetteville, January 27, 1998.

### **EXTENSION DECISION TOOLS**

Historical North Carolina Corn, Soybean, and Wheat Price and Basis Data, 2000-present  
<https://agecon.ces.ncsu.edu/>

Crop Comparison Tool

<https://cals.ncsu.edu/are-extension/crops-marketing-and-logistics/grain-marketing/>

### **WORKSHOP PROGRAMS CHAIRED OR CO-CHAIR**

Co-chair, "Planning for Profits in 2005," For Ag agents and farmers in North Carolina, South Carolina, and Georgia, January 2005.

Chair, Southern Extension Marketing Committee Annual Meeting, Lexington, KY, 14-16th June 2004.

Co-chair, "Train the Trainer," meeting for Ag Agents in North Carolina and Georgia, NCSU-ARE Raleigh, May 13-14th, 2004

Program Chair, Southern Extension Committee Annual Conference, Charleston, South Carolina, June 23-25th, 2003.

Chair, *Risk Management Under the New Farm Bill*, Agricultural and Resource Economics Extension Specialists in Southeast Region Greenville, North Carolina Pitt County Extension Office January 23, 2003.

Co-Chair, *2002 Farm Bill Workshops*, Agricultural and Resource Economics Extension Faculty, NCSU, Greensboro, September 19, 2002.

Co-Chair, *2002 Farm Bill Workshops*, Agricultural and Resource Economics Extension Faculty, NCSU, Greenville, September 20th, 2002.

Co-Chair, In-service Ag Agent Training Workshop Entitled: *The Value of Information in Risk Management in Agriculture: Keep Up or Get Out*, Greenville, January 29, 2002.

### **COMMITTEE AND SERVICE WORK (BY CATEGORY)**

#### Specials Projects

Evaluation of the “Economic Losses to the North Carolinian Agricultural Economy from Livestock Deaths Due to Hurricane Florence. Special request from the NC State Veterinarian, September 2018. Analysis used in request to FEMA for assistance.

Evaluation of the “Economic Losses to the North Carolinian Agricultural Economy from Broiler Deaths Due to Hurricane Mathew. Special request from the NC Commissioner of Agriculture, Fall 2016. Analysis used in request to FEMA for assistance.

Evaluation of the “Economic Feasibility and Appropriate Policies for Solar Facilities for NC Field Crops Land.” Special assignment from the NC Commissioner of Agriculture, Fall 2015.

Evaluation of the “Biodiesel, LLC Business Plan.” Special assignment from the Dean of College of Life Sciences, North Carolina State University, Summer 2004.

#### University, College, and Departmental Committees

ARE Search Committee Chair, Hugh C. Kiger Professorship, Fall 2022

ARE Search Committee Chair, Teaching Assistant Professor, Fall 2021

ARE Best Dissertations Committee 2020-2023

ARE Awards Committee, 2020-current

ARE Internal Department Head Search Committee, Summer 2019.

ARE Search Committee, 2017 (two searches)

ARE Compact Planning Committee, 2006.

Lead for ARE Search Committee for Assistant Professor search 2006.



ARE Search Committee, 1999-current.

College of Life Sciences Bioprocessing Committee, 2004.

ARE Planning Team Committee for CREES review, 2002.

North Carolina State Econ. Editorial Board, 1999-2001.

ARE Computer Advisory Committee 1999-2002.

ARE Reading Committee for the Best Masters and Ph.D. Thesis, 1998.

*Regional, National, and International Committee Work*

Advisor, North Carolina Corn Growers Association, 2020-present.

External Review Team Member, Department of Agricultural Economics, Purdue University,  
March 2020.

External Advisory Board for the Montana State University Initiative for Regulation and Applied  
Economic Analysis (IRAEA), 2018-present.

AAEA Agricultural & Applied Economics Association's Nominating Committee 2016-present

AAEA Agricultural & Applied Economics Association's Quality of Communication Committee  
2015-2017. Including being Chair in 2017.

Member and advisor to the Mid Atlantic Animal Feed Grains (MAAFG) Stakeholder 2012-  
present

North Carolina Agricultural Infrastructure Committee for NCDA, 2012-2017t

American Agricultural Economics Association Extension Awards Committee, 2006-2009.

American Agricultural Economics Association Task Force: Selected Papers, Posters and  
Symposium 2006.

Advisor, North Carolina Small Grain Growers Association, 2002-present.

Councilor, North American Branch of the Australian Agricultural and Resource Economics  
Society, 2002-2016.

AARES-AAEA Young Professionals Exchange Travel Award Committee 2002-2005.

Southern Extension Marketing Committee 1999-present

Western Agricultural Economics Association Outstanding Published Research Award Committee 2002.

Southern Extension Marketing Risk Task Force, 2000-2001

**CONSULTING ACTIVITIES**

*Reviews for Federal Crop Insurance Corporation Board (Total=35)*

Review of Annual Forage Rainfall Index Modification, December 2022.

Review of LRP Fed Cattle, Feeder Cattle and Swine Modification, December 2022

Review of Concept Proposal—Past Application Conservation, July 2021

Review of Concept Proposal—Watermelon Excess Rainfall, April 2020

Review of Annual Forage Rainfall Index—Program Price Update, April 2019

Review of Livestock Risk Protection Modification Crop Insurance Program, June 2018.

Review of Dairy Revenue Protection, January 2018

Review of Concept Proposal—Dairy Revenue Protection, July 2017

Review of Pulse Crop Revenue Modification, March 2016

Review of the Rainfall Index/Vegetation Index Pasture, Rangeland, for Forage, March 2015.

Rating Methodology of the APH Yield Exclusion, February 2015.

Annual Forage Modification to the Rainfall Index Annual Forage, January 2015

Modifications to Livestock Risk Protection for Lamb, June 2014

Review of the Whole-Farm Revenue Protection Insurance Program, April 2014

Area Risk Protection Insurance (ARPI) Rice Pilot Program, September 2013

Machine Harvested Cucumbers, June 2013

Pulse Crop Revenue Plan of Insurance (PCR-PI), January 2012.

Specialty Trait Soybean (Pilot) Endorsement, April 2011.

Review of Trend-Adjusted APH Yield (TA-APH) Endorsement, January 2011

Coverage for Non-Futures Crops Concept Proposal, September 2010.

Developing Management Tools for Soybeans with Specialty Traits Concept Proposal, January 2010.

Combined Coverage Advantage: A Concept Proposal, June 2009.

Named Peril Weather Insurance, December 2008.

Apiculture Rainfall Index, May 2007.

Apiculture Vegetation Index, May 2007.

Alternative Methods for Mitigating Declines in Approved Yields Due to Successive Years of Low Yield—Replacement Yields and Grower Determined Yields, February 2007.

Yield Indexing for Category B Crops—Stabilized Actual Production History, February 2007.

Pasture, Rangeland, and Forage Vegetation Index, October 2005.

Pasture, Rangeland, and Forage Rainfall Index, October 2005.

Livestock Gross Margin Pilot Program for Cattle, June 2005.

Sweet Potato New Pilot Program Development, August 2004.

Livestock Risk Protection Lamb Endorsements Program Response to Reviewers, March 2004.

Livestock Risk Protection Lamb Endorsements Program, December 2003.

Livestock Risk Protection Program Update for Feeder Cattle, Fed Cattle Swine, October 2003.

Revised Livestock Gross Margin Plan of Insurance, June 2003.

*Expert Witness Activities (Total=23)*

Maxwell Foods, LLC v. Smithfield Foods, Inc  
Robinson Bradshaw—Rob Harrington, Mark Hiller February 2022

Broiler Antitrust Litigation—House of Raeford, LLC  
Jordan Price Wall Gray Jones—Henry Jones, June 2021

Eunice Anderson et al. v. Murphy-Brown, LLC  
McGuireWoods—Christian Henneke, September 2016

Artis et al. v. Murphy-Brown, LLC

McGuireWoods—Christian Henneke, September 2016

Annjeanette Gillis et al. v. Murphy-Brown, LLC  
McGuireWoods—Christian Henneke, September 2016

Woodell McGowan et al. v. Murphy-Brown, LLC  
McGuireWoods—Christian Henneke, September 2016

Joyce McKiver et al. v. Murphy-Brown, LLC  
McGuireWoods—Christian Henneke, September 2016

United Farm Family Mutual Insurance Company d/b/a Indiana Farm Bureau Insurance, v Crop Pro Inc., Amtrust Agriculture Insurance Services, Inc, James Rink, Robert Knuckles, Jon Tebo & Barry Wesner  
Squire Patton Boggs—Meghan Hill October 2015

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