

JOHN V. WESTRA
Department of Agricultural Economics and Agribusiness
Louisiana State University and LSU AgCenter
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EDUCATION

Ph.D. – Agricultural and Applied Economics, with Minor in Sustainable Agricultural Systems, University of Minnesota, 2001.

M.S. – Agricultural and Resource Economics, University of Maine, 1991.

B.A. – Psychology, Grinnell College, 1984.

EMPLOYMENT HISTORY

Professor, Department of Agricultural Economics and Agribusiness, Louisiana State University, Baton Rouge, Louisiana, July 2014 to present.

Associate Professor, Department of Agricultural Economics and Agribusiness, Louisiana State University, Baton Rouge, Louisiana, July 2008 to June 2014.

Assistant Professor, Department of Agricultural Economics and Agribusiness, Louisiana State University, Baton Rouge, Louisiana, January 2002 to June 2008.

Assistant Professor, Department of Economics, Saint Olaf College, Northfield, Minnesota, September 2001 to December 2001.

Research Fellow, Department of Applied Economics, University of Minnesota, Saint Paul, Minnesota, January 2000 to July 2001.

Research Assistant, Department of Applied Economics, University of Minnesota, Saint Paul, Minnesota, September 1994 to December 1999.

Adjunct Lecturer, Department of Economics, University of Saint Thomas, Saint Paul, Minnesota, September 1998 to December 1998.

Teaching Assistant, Department of Applied Economics, University of Minnesota, Saint Paul, Minnesota, January 1998 to May 1998.

Research Associate, Economics Program, World Resources Institute, Washington, District of Columbia, July 1992 to August 1994.

History of Assignments

Title: Professor (2014 to date), Associate Professor (2008 – 2014), Assistant Professor (2002 – 2008), Department of Agricultural Economics and Agribusiness, Louisiana State University

Duties and Responsibilities:

40% Appointment: Louisiana Agricultural Experiment Station, LSU Agricultural Center

Conduct a research program in production, natural resource and environmental economics relevant to the agricultural sector. The objective of this research effort is to examine how land management decisions (farming, ranching and other natural resource-based enterprises) affect economic parameters (income and social welfare) and provision of ecosystem services and goods, including primary production, water quality and quantity. Research projects include economic analyses of farming systems (conventional crop and livestock systems and alternative or natural resource conserving practices); economic analyses of agricultural and environmental policies affecting land management decisions and the subsequent impact on water quality and quantity; determining factors associated with producer adoption of new technologies or alternative enterprises; and economic analysis of local food systems effect on land management decisions. Commit to publish research findings in disciplinary and interdisciplinary journals, experiment station publications, and other outlets for disseminating results. Cooperate and collaborate with faculty from other units of the LSU System, other Universities, and other agency personnel in these research efforts and in securing extramural funds to support such efforts.

60% Appointment: Louisiana Cooperative Extension Service, LSU Agricultural Center

Develop and deliver educational programs to producers, Extension Service personnel and agency staff that address production, marketing, natural resource and environmental economic issues in agriculture. A major component of this appointment is serving as project leader to manage overall efforts of faculty and staff, gathering production and economic data, writing and editing text for the *Louisiana Summary of Agriculture and Natural Resources (AgSummary)* – a publication of parish and state level production and economic information for more than 200 agricultural and natural resource commodities produced in Louisiana. Additionally, develop and deliver extension programs focus on economic aspects of natural resource conservation in agriculture (water quality and quantity), policy analysis and risk management. Manage professional staff and serve as project leader for the Louisiana MarketMaker Program – an online marketing tool connecting Louisiana producers, food buyers and consumers, to increase marketing and economic opportunities within the food value chain. Commit to publish relevant extension educational materials and disseminate to appropriate audiences. Cooperate and collaborate with faculty from other units within the LSU System, other Universities, and other agency personnel concerned with similar agricultural production, marketing and natural resource problems.

Research Activities

Refereed Chapters or Essays in Books

Boody, G., P. Gowda, J. Westra, C. van Schaik, P. Welle, B. Vondracek and D. Johnson. 2009. "Multifunctional Grass Farming: Science and Policy Considerations" in *Farming with Grass: Achieving Sustainable Mixed Agricultural Landscapes in Grassland Environments* edited by Alan J. Franzluebbers, Ankeny, IA: Soil and Water Conservation Society.

Westra, J. and G. Boody. 2009. "Challenges and Necessity of Developing Multifunctional Agroecosystems," chapter 13 in *Agroecosystem Management for the 21st Century: Integrating Production, Environment and Society. Advances in Agroecology Series* edited by Patrick J. Bohlen. Boca Raton FL: CRC Press.

Repetto, R., P. Faeth and J. Westra. 1998. "Accounting for Natural Resources in Income and Productivity Measurements" in *Environmental Performance Metrics and Ecosystem Condition*, edited by Peter Schulze. Washington DC: National Academy Press.

Faeth, P. and J. Westra. 1993. "Alternatives to Corn and Soybean Production in Two Regions of the United States" in *Agricultural Policy and Sustainability: Case Studies from India, Chile, the Philippines and the United States*, edited by Paul Faeth. Washington DC: World Resources Institute.

Articles in Refereed Journals

Boutwell, L. and J. Westra. 2015. "Evidence of Diminishing Marginal Product of Wetlands for Damage Mitigation", *Natural Resources* 6:48-55.

Boutwell, J. and J. Westra. 2013. "Benefits Transfer: A Review of Methodologies and Challenges" *Resources* 2(4): 517-527.

Broussard, W., R. Turner and J. Westra. 2012. "Do Federal Farm Policies Influence Surface Water Quality?" *Agriculture, Ecosystems and Environment* 158(Sept): 103-109.

Gowda, P., J. Westra, D. Petrolia, B. Dalzell and D. Mulla. 2011. "Impact of Targeted Removal of Residue Cover on Water Quality in the Sand Creek Watershed," *Journal of Environmental Hydrology* 19(11): 1-12.

Kim, S., J. Westra and J. Gillespie. 2010. "Adoption of Russian Varroa-Resistant Honey Bees among United States Beekeepers," *Korean Journal of Agricultural Management and Policy* 37(4): 643-662.

Paudel, K., W. Gauthier, J. Westra and L. Hall. 2008. "Dairy Programs to Reduce

- Manure-Related Environmental Problems: The Case of the Louisiana Milkshed," *Journal of Environmental Systems* 31(4): 367-383.
- Paudel, K., W. Gauthier, J. Westra and L. Hall. 2008. "Factors Influencing and Steps Leading to the Adoption of Best Management Practices by Louisiana Dairy Farmers," *Journal of Agricultural and Applied Economics* 40(1): 203-222.
- Hinson, R., C. Motsenbocker and J. Westra. 2007. "Management Challenges in a Maturing Industry: A Teaching Case Study of Melon Farming in Latin America," *Horticultural Technology* 17(2): 262-268.
- Johansson, R., M. Livingston, J. Westra and K. Guidry. 2006. "Simulating the U.S. Impacts of Alternative Asian Soybean Rust Treatment Regimes," *Agricultural and Resource Economics Review* 35(1):52-63.
- Westra, J., J. Zimmerman and B. Vondracek. 2005. "Bioeconomic Analysis of Selected Conservation Practices on Soil Erosion and Freshwater Fisheries." *Journal of the American Water Resources Association*, 41(2):309-322.
- Boody, G., B. Vondracek, D. Andow, M. Krinke, J. Westra, J. Zimmerman and P. Welle. 2005. "Multifunctional Agriculture in the US." *Bioscience* 55(1): 27-48.
- Westra, J., J. Zimmerman and B. Vondracek. 2004. "Do Conservation Practices and Programs Benefit the Intended Resource Concern?," *Agricultural and Resource Economics Review* 33(1):105-120.
- Vondracek, B., J. Zimmerman and J. Westra. 2003. "Setting an Effective TMDL: Sediment Loading and Effects of Suspended Sediment on Fish," *Journal of the American Water Resources Association* 39(5):1005-1015.
- Zimmerman, J., B. Vondracek and J. Westra. 2003. "Agricultural land use effects on sediment loading and fish assemblages in two Minnesota watersheds," *Environmental Management* 32(1): 93-105.
- Westra, J., K. Easter and K. Olson. 2002. "Targeting Nonpoint Source Pollution Control: Phosphorus in the Minnesota River Basin." *Journal of the American Water Resources Association* 38(2): 493-505.
- Westra, J., K. Boyle and G. Porter. 1995. "Net revenues of potatoes rotated with other crops." *American Potato Journal* 72(2): 99-117.

Refereed Conference Proceedings

- Westra, J. and A. Matekole. "Economic Analysis of Tillage and Nutrient Best Management Practices for Reducing Nutrient Export to the Gulf of Mexico from a Mississippi River Delta Watershed." *Proceedings from Science to Solutions:*

Reducing Nutrient Export to the Gulf of Mexico Workshop, Soil and Water Conservation Society, Des Moines IA, December 2009.

- Drinkwater, L., M. David, R. Galt, J. Gardner, S. Hufnagl-Eichiner, L. Marshall, S. Snapp, C. Tonitto, J. Westra and S. Wolf . "Hypoxia and the Mississippi River Basin as a model system: What can we learn about the social-ecological interface?" *Proceedings of the 94th ESA Annual Convention*. Albuquerque NM, August 2009.
- Westra, J., A. Matekole and T. Appelboom. "Bioeconomic Analysis of Nutrient Reduction Strategies in the Lower Mississippi River Basin to Address Hypoxia in the Northern Gulf of Mexico." *Proceedings of the Coastal Zone 09 Conference: Revolutionary Times: Catching the Wave of Change*. Boston MA, July 2009.
- Westra, J., R. Caffey and J. Huner. "Economic Valuation of Benefits Provided by Crawfish Pond Habitat." *Proceedings of the Southern Division of the American Fisheries Society Annual Meeting*, New Orleans LA, January 2009.
- Westra, J., J. Huner and R. Caffey. "Ecological and Economic Benefits and Costs of Louisiana's Working Wetlands." *Proceedings of the 4th Annual Partners in Flight International Conference*, McAllen TX, February 2008.
- Westra, J., J. Huner and R. Caffey. "Louisiana' Agricultural Wetlands: Potential Ecological and Economic Benefits and Costs." *Proceedings of the Coastal Zone 07 Conference: Brewing Local Solutions to Your Coastal Issues*. Portland OR, July 2007.
- Westra, J. and R. Johansson. "Pollution Credit Trading: A Means to Mitigate Uncertainty." *Proceedings of the American Water Resources Association 2006 Summer Specialty Conference: Adaptive Management of Water Resources*. M. Colosimo and D. Potts, editors. Missoula MT, June 2006.
- Westra, J. "Policies for Reducing Nitrogen Leakiness in Agriculture: Potential Economic and Environmental Effects on Gulf of Mexico Hypoxia." *Proceedings of the Coastal Zone 05 Conference*. New Orleans LA, July 2005.
- Westra, J., R. Caffey and J. Huner. "Changes in the Crayfish and Rice Industries in Louisiana: Potential Economic and Environmental Effects of Agricultural Wetland Loss." *Freshwater Crayfish 15*. London England, April 2005.
- Westra, J., J. Zimmerman and B. Vondracek. "Potential Economic and Environmental Effects of Select Conservation Programs of the 2002 Farm Bill." *Northeastern Agricultural and Resource Economics Association Workshop Proceedings "Linkages Between Agricultural and Conservation Policies."* Portsmouth NH, June 2003. Published by the Northeast Regional Center for Rural Development, The Pennsylvania State University.

Westra, J., J. Zimmerman and B. Vondracek. "Economic and Environmental Benefits of Mandated Agricultural Best Management Practices." *2003 Spring Specialty Conference Proceedings "Agricultural Hydrology and Water Quality."* Kansas City MO, May 2003.

Vondracek, B., J. Zimmerman and J. Westra. "Setting an Effective TMDL for Suspended Sediment." *2003 Spring Specialty Conference Proceedings "Agricultural Hydrology and Water Quality."* Kansas City MO, May 2003.

Westra, J., K. Easter and K. Olson. "Targeting Nonpoint Source Pollution Control: Phosphorus in the Minnesota River Basin." *Proceedings of Integrated Decision-Making for Watershed Management Symposium: Processes and Tools*, Chevy Chase MD, January 2001.

Westra, J. "Economic Gains from Targeting Nonpoint Phosphorus Pollution." *Proceedings of The Watershed Approach to Improving Water Quality: Fact or Fantasy*, La Crosse WI, March 2000.

Refereed Manuscripts in Review

Boutwell, J.L and J. Westra. "The Role of Wetlands for Mitigating Economic Damage from Hurricanes", manuscript submitted for review *Journal of the American Water Resources Association*, June 2015.

Gabrielyan, G., S. Chintawar and J. Westra. "Economics of Cover Crops: Factors Influencing Adoption and Its Effect on Nitrogen Use and Profitability", manuscript submitted for review to *Journal of Soil and Water Conservation*, November 2014.

Refereed Publications – Experiment Station Articles and Bulletins

Boutwell, J. and J. Westra. 2014. "The Efficacy of Wetlands for Storm Damage Mitigation." *Louisiana Agriculture*, 57(3): 11-12.

Leiby, J. and J. Westra. 2014. "Factors Influencing Adoption of VSH Queens in Honey Bee Breeding Industry." *Louisiana Agriculture*, 57(1): 20-21.

Salassi, M., M. Deliberto, J. Westra and K. Gravois. 2013. "Economic Importance of Louisiana Sugarcane Production in 2012," *Sugarcane Research: Annual Progress Report, 2012*, Sugar Research Station, LSU Agricultural Center, pp. 1-3.

Salassi, M., M. Deliberto, J. Westra and K. Gravois. 2012. "Economic Importance of Louisiana Sugarcane Production in 2011," *Sugarcane Research: Annual Progress Report, 2011*, Sugar Research Station, LSU Agricultural Center, pp. 1-3.

- Salassi, M., M. Deliberto, J. Westra and K. Gravois. 2011. "Economic Importance of Louisiana Sugarcane Production in 2010," *LSU Agricultural Center Sugar Station Annual Research Report, 2010*, Louisiana State University Agricultural Center, pp. 1-3.
- Detre, J., B. Clark, T. Mark and J. Westra. 2011. "Louisiana Farmers Markets." *Louisiana Agriculture*, 54(1):16-17.
- Salassi, M., M. Deliberto, J. Westra and K. Gravois. 2010. "Economic Importance of Louisiana Sugarcane Production in 2009," *LSU Agricultural Center Sugar Station Annual Research Report, 2009*, Louisiana State University Agricultural Center, pp. 1-3.
- Han, K., M. Alison Jr., W. Pitman, M. McCormick and J. Westra. 2010. "Clover value in pastures rises as nitrogen fertilizer price increases." *Louisiana Agriculture*, 53(3):6-9.
- Westra, J., V. Moreira and R. Bardwell. 2010. "An Economic Analysis of the Dairy Waste Lagoon Clean-out Program in Louisiana." *Louisiana Agriculture*, 53(2):12-13.
- Moreira, V., B. LeBlanc, E. Achberger, R. Sheffield, J. Westra, L. Zeringue and C. Leonardi. 2010. "Improving dairy wastewater treatment for environmental quality in Louisiana." *Louisiana Agriculture*, 53(2):8-9.
- Paudel, K., K. Bhattarai, W. Gauthier and J. Westra. 2010. "A GIS-Based Model of Optimal Dairy Manure Transportation for Use as Fertilizer on Land Application." *Louisiana Agriculture*, 53(2):16-17.
- Salassi, M., M. Deliberto, J. Westra and B. Legendre, "Economic Importance of Louisiana Sugarcane Production in 2009," *LSU Agricultural Center Sugar Station Annual Research Report, 2009*, Louisiana State University Agricultural Center, pp. 1-3.
- Westra, J. 2007. "Economic Impact of Russian Honey Bees." *Louisiana Agriculture*, 50(3):8-11.
- Westra, J. and K. Boyle. 1991. *An Economic Analysis of Crops Grown in Rotation with Potatoes in Aroostook County, Maine*. Maine Agricultural Experiment Station, Bulletin 834, University of Maine, Orono, Maine.

Abstracts in Refereed Journals

- Boutwell, L. and J. Westra. 2014 "Factor Analysis: A Novel Approach for Exploring the Relationship between Disturbances, Communities and the Natural Environment",

Abstract: National Oceanic and Atmospheric Administration (NOAA), Social Coast Forum online.

Boutwell, L. and J. Westra. 2014 "Economic Risk, Tropical Storm Intensity and Coast Wetlands: A Factor Analysis", Abstract: *Journal of Agricultural and Applied Economics*, 46(3) p 393.

Leiby, J. and J. Westra. 2014 "Factors Influencing the Adoption of Varroa Sensitive Hygiene (VSH) Queens in Honey Bee Breeding Industry", Abstract: *Journal of Agricultural and Applied Economics*, 46(3) p 393.

Chintawar, S., J. Westra and G. Gabrielyan. 2011. "Effects of Cover Crop Adoption on Nitrogen Use Among Conventional and Organic Corn Farms – An Empirical Analysis", Abstract: *Journal of Agricultural and Applied Economics*, 43(3) p 467.

Clark, B., R. Hinson and J. Westra. 2011. "Potential Impacts of MarketMaker on Recovery of Louisiana's Seafood Industry", Abstract: *Journal of Agricultural and Applied Economics*, 43(3) p 476.

Chintawar, S., J. Westra and G. Gabrielyan. 2010. "Adoption on Cover Crops and Its Effect on Nitrogen Usage by Farmers", Abstract: *Journal of Agricultural and Applied Economics*, 42(3) p 575.

Chintawar, S. and J. Westra. 2010. "Implications of the Sanitary and Phytosanitary Regulations on the European Union - U.S. Corn Trade Sector and the Case of the "Agenda 2000" Reforms", Abstract: *Journal of Agricultural and Applied Economics*, 42(3) p 587.

Matekole, A. and J. Westra. 2009. "Best Management Practices: How Economical Is It in Southern Agricultural Systems?" Abstract: *Journal of Agricultural and Applied Economics*, 41(2) p 542.

Chintawar, S. and J. Westra. 2009. "An Energy Cost Estimation of Sugar-Ethanol: A Comparative Analysis with Corn Ethanol Production in the United States", Abstract: *Journal of Agricultural and Applied Economics*, 41(2) p 544.

Paudel, K., J. Westra and M. Thomas. 2008. "Economics of Invasive Species in the Southeastern United States", Abstract: *Journal of Agricultural and Applied Economics*, 40(2) p 735.

Ibendahl, G., K. Guidry, J. Westra and R. Hogan. 2008. "An Analysis of Why a Share Lease or a Cash Lease is used for Farmland Rental", Abstract: *Journal of Agricultural and Applied Economics*, 40(2) p 740.

Hinson, R., C. Motsenbocker and J. Westra. 2008. "An 'Integrated Firm' Strategy in Asian Vegetables Imports", Abstract: *Journal of Food Distribution Research*,

39(1) p 148.

- Hall, L., K. Paudel, W. Gauthier, J. Westra and H. Niu. 2006. "Determination of BMP Adoption Effectiveness in the Louisiana Dairy Production Region", Abstract: *Journal of Agricultural and Applied Economics*, 38(2) p 456.
- Kim, S., J. Westra and J. Gillespie. 2006. "Factors Influencing the Adoption of Russian *Varroa*-Resistant Honey Bees", Abstract: *Journal of Agricultural and Applied Economics*, 38(2) p 465.
- Paudel, K., W. Gauthier, L. Hall and J. Westra. 2006. "Willingness to Participate in Dairy Programs to Reduce Manure Related Problems in Louisiana's Major Dairy Production Region", Abstract: *Journal of Agricultural and Applied Economics*, 38(2) p 465.
- Westra, J. and S. Kim. 2006. "Estimation of Economic Impacts of Russian *Varroa*-Resistant Honey Bees", Abstract: *Journal of Agricultural and Applied Economics*, 38(2) p 474.
- Gauthier, W., K. Paudel, J. Westra and L. Hall. 2005. "Influence of Cost Share and EQIP Incentive Payments on Adoption of Best Management Practices by Louisiana Dairy Farmers", Abstract: *Journal of Agricultural and Applied Economics*, 37(2) p 508.
- Westra, J., R. Caffey and J. Huner. 2005. "Working Lands Programs: Potential Tools for Conserving Agricultural Wetlands", Abstract: *Journal of Agricultural and Applied Economics*, 37(2) p 521.
- Westra, J. 2003. "Effects on Farm Income and the Environment from Targeting Agricultural Best Management Practices (BMPs)", Abstract: *Journal of Agricultural and Applied Economics*, 35(2) p 425.
- Westra, J. 2003. "Estimated Impact on Farm Income and Greenhouse Gas Levels from Changing Agricultural Practices", Abstract: *Journal of Agricultural and Applied Economics*, 35(2) p 436.

Other Publications – University, Departmental and USDA Publications

- Simon, S., C. Castille, J. Westra, F. Thomas, L. Williams, M. Strain, B. Fletcher, J. Dupre, A. Guarino, C. Williams, G. Gremillion, K. Short, D. Rowland, J. Froebe, R. Jenkins, R. Harrell, K. Lolley, H. Miller, K. Chauvin, R. Joyner, R. Boullion, C. Glaser and N. Jayroe. 2012. *Sustainable Local Food Policy Council Report: Recommendations for a Sustainable Local Food Economy*. Report presented to Louisiana Legislature.
- Fannin, M. and J. Westra. 2010. *The Contribution of Conservation Programs to the*

Louisiana Economy. Department of Agricultural Economics and Agribusiness, Louisiana State University Agricultural Center. Impact Policy Brief.

Westra, J. and S. Kim. 2006. *Estimated Economic Impact of the Release by USDA ARS and Factors Influencing the Adoption of a Stock of Russian Honey Bees Resistant to Varroa destructor*. Department of Agricultural Economics and Agribusiness, Louisiana State University. Research Report to USDA-ARS.

Westra, J. and K. Olson. 1997. *Farmer's Decision Processes and Adoption of Conservation Tillage*. Department of Applied Economics, University of Minnesota. Staff Paper P97-9.

Westra, J., K. Boyle and G. Porter. 1995. *Net Revenues of Potatoes Rotated with Other Crops*. Maine Agricultural Experiment Station, Publication No.1879, University of Maine, Orono, Maine.

Westra, J. and J. Halkett. 1992. *Northern New England Deer Producers Survey Results*. USDA, Agricultural Cooperative Service, Technical Assistance Report, Washington, DC.

Brown, P. and J. Westra. 1992. *Tropical Fruit Producers in Hawaii*. USDA, Agricultural Cooperative Service, Technical Assistance Report, Washington, DC.

Invited Papers Presented at Professional Meetings

- Westra, J. "U.S. Agrichemicals: Use, Markets, Registration and Regulations." Pesticide-Fertilizer Development, 3rd Agriculture Development Forum, Nanning, Guangxi, China, July 2015.
- Westra, J. "Economics, Soil and Water Conservation and Food Security." ASA, CSSA, and SSSA International, Annual Meetings, Cincinnati OH, October 2012.
- Westra, J. "Economics, Soil and Water Conservation and Food Security." Soil and Water Conservation Society, Annual Conference, Dallas TX, July 2012.
- Westra, J. "Gulf of Mexico Ecosystem Restoration: Economic Issues and Perspective." Gulf Coast Ecosystem Restoration Task Force Science Meeting, Baton Rouge LA, June 2011.
- Boody, G., P. Gowda, J. Westra, C. van Schaik, P. Welle, B. Vondracek and D. Johnson. "Multifunctional Grass Farming: Science and Policy Considerations." Farming with Grass: Achieving Sustainable Mixed Agricultural Landscapes, Conference of the Soil and Water Conservation Society, Oklahoma City OK, October, 2008.
- Westra, J. "Integrating Economic and Agri-environmental Modeling of BMPs: Case

Studies in Two Watersheds.” Agriculture and Agri-Food Canada, Watershed Evaluation of BMPs (WEBs), 3rd Annual Workshop, Winnipeg MB Canada, February 2007.

- Westra, J. and G. Boody. “Challenges and Benefits of Developing Multifunctional Agroecosystems.” American Society of Agronomy-Crop Science Society of America-Soil Sciences Society of America (ASA-CSSA-SSSA), 2006 International Meetings, Indianapolis IN, November 2006.
- Zimmerman, J., B. Vondracek and J. Westra. “Effects of Agriculture on Fish Communities in Two Minnesota Watersheds.” Midwest Fish and Wildlife Conference, Annual Meeting, Des Moines IA, August 2001.

Selected Papers Presented at Professional Meetings

- Boutwell, L., J. Westra and R. Caffey. “Interactions between Wetlands, Economies and Hurricanes in a Changing Climate: Toward Valuing Adaptation Strategies.” American Water Resources Association (AWRA), 2015 Summer Specialty Conference on Climate Change Adaptation, New Orleans LA, June 2015.
- Boutwell, L. and J. Westra. “Using the Expected Damage Function Approach to Value Wetlands Ecosystem Services on the Gulf Coast.” W-3133 Annual Meeting, Pensacola FL, February 2015.
- Boutwell, L. and J. Westra. “The Economic Value of Wetlands as Storm Buffers: Non-Linear Provision of an Ecosystem Service.” Southern Agricultural Economics Association, Annual Meeting, Atlanta GA, February 2015.
- Boutwell, L. and J. Westra. “Context-Dependent Value of Wetlands for Protection Against Coastal Storms.” The Coastal Society/Restore Americas Estuaries, National Summit on Coastal and Estuarine Restoration, Washington DC, November 2014.
- Boutwell, L. and J. Westra. “Context-Dependent Value of Wetlands.” Gulf Estuarine Research Society (BERS) Biennial Meeting, Port Aransas TX, October 2014.
- Boutwell, L. and J. Westra. “Factor Analysis: A Novel Approach for Exploring the Relationship between Disturbances, Communities and the Natural Environment.” National Oceanic and Atmospheric Administration (NOAA), Social Coast Forum, Charleston SC, February 2014.
- Boutwell, L. and J. Westra. “Economic Risk, Tropical Storm Intensity and Coast Wetlands: A Factor Analysis.” Southern Agricultural Economics Association, Annual Meeting, Dallas TX, February 2014.
- Leiby, J. and J. Westra. “Factors Influencing the Adoption of Varroa Sensitive Hygiene (VSH) Queens in Honey Bee Breeding Industry.” Southern Agricultural

Economics Association, Annual Meeting, Dallas TX, February 2014.

- Boutwell, L. and J. Westra. "Identifying Stakeholders for Ecosystem Services: Methods and Challenges for Benefits Transfer." Healthy Forests = Healthy Waters, 2013 AWRA Summer Specialty Conference, Hartford CT, June 2013.
- Boutwell, L. and J. Westra. "Wetlands as Protective Buffers: Relationships between Storms, Stakeholders and the Environment." Northeast Agricultural and Resource Economics Association, Annual Meeting, Ithaca NY, June 2013.
- Boody, G. and J. Westra. "Making Needed Ecosystem Services Pay in an Agricultural Watershed." National Cooperative Soil Survey (NCSS), National Conference, Annapolis MD, June 2013.
- Boutwell, L. and J. Westra. "Estimated Economic Losses to Louisiana Producers from the 2011 Mississippi River Flood." Delta States Farm Management Multistate Research Project, Annual Meeting, Vicksburg MS, May 2013.
- Boutwell, L. and J. Westra. "A Valuation of Wetlands in Southern Louisiana: Using Meta-Analysis and GIS to Improve the Validity of Benefit Transfers." CNREP 2013: Challenges of Natural Resource Economics and Policy, New Orleans LA, March 2013.
- Westra, J. "Cover Crops: Environmental Benefits, Nitrogen Use, Input Costs and Adoption." American Agricultural Economics Association, Annual Meeting, Seattle WA, August 2012.
- Chintawar, S., G. Gabrielyan and J. Westra. "Effect of Cover Crop Adoption on Nitrogen Use among Conventional and Organic Corn Farms – An Empirical Analysis." Southern Agricultural Economics Association, Annual Meeting, Corpus Christi TX, February 2011.
- Hohman, W., W. Norling, J. Pitre, J. Westra, W. Waits and M. Salassi. "Estimates of the Wildlife Value of Rice Fields in Southwestern Louisiana." Soil and Water Conservation Society, Annual Conference, Saint Louis MO, July 2010.
- Gabrielyan, G., S. Chintawar and J. Westra. "Factors Affecting Adoption of Cover Crops and its Effect on Nitrogen Usage among US Farmers." Challenges of Natural Resource Economics and Policy: 3rd National Forum on Socioeconomic Research in Coastal Systems, New Orleans LA, May 2010.
- Chintawar, S. and J. Westra. "Welfare Impact of the Sanitary and Phytosanitary (SPS) Regulations on the EU – U.S. Corn Trade Sector." Southern Agricultural Economics Association, Annual Meeting, Fort Lauderdale FL, February 2010.
- Gabrielyan, G., S. Chintawar and J. Westra. "Adoption of Cover Crops and Its Effect

on Nitrogen Usage by Farmers.” Southern Agricultural Economics Association, Annual Meeting, Fort Lauderdale FL, February 2010.

- Drinkwater, L., M. David, R. Galt, J. Gardner, S. Hufnagl-Eichiner, L. Marshall, S. Snapp, C. Tonitto, J. Westra and S. Wolf. “Hypoxia and the Mississippi River Basin as a model system: What can we learn about the social-ecological interface?” Ecological Society of America, Annual Meeting, Albuquerque NM, August 2009.
- Westra, J., A. Matekole and T. Appelboom. “Bioeconomic Analysis of Nutrient Reduction Strategies in the Lower Mississippi River Basin to Address Hypoxia in the Northern Gulf of Mexico.” Coastal Zone 2009 (CZ 09), Boston MA, July 2009.
- Matekole, A., J. Westra and T. Appelboom. “Agricultural Drainage Management: How Economical Is It in Southern Agricultural Systems?” Southern Agricultural Economics Association, Annual Meeting, Atlanta GA, February 2009.
- Westra, J. and S. Chintawar. “An Energy Cost Estimation of Sugar-Ethanol: A Comparative Analysis with Corn Ethanol Production in the United States.” Southern Agricultural Economics Association, Annual Meeting, Atlanta GA, February 2009.
- Westra, J., R. Caffey and J. Huner. “Economic Valuation of Benefits Provided by Crawfish Pond Habitat.” Southern Division of the American Fisheries Society Annual Meeting, New Orleans LA, January 2009.
- Matekole, A., J. Westra and T. Appelboom. “Biophysical Economic Analysis of Drainage Management Systems in the Mississippi River Basin.” American Water Resources Association, Annual Meeting, New Orleans LA, November 2008.
- Westra, J., J. Huner and R. Caffey. “Ecological and Economic Benefits and Costs of Louisiana’s Working Wetlands.” Partners in Flight Annual Conference, Lafayette LA, July 2008.
- Westra, J. and A. Matekole. “Biophysical Economic Analysis of Drainage Management Systems in the Mississippi River Basin.” Northeast Agricultural and Resource Economics Association and Canadian Agricultural Economics Society, Annual Meeting, Quebec PQ Canada, July 2008.
- Chintawar, S., J. Westra and L. Kennedy. “US-EU Corn Trade Sector: Trade and Welfare Implications of Sanitary and Phytosanitary Regulations and the 'Agenda 2000' Reforms.” Northeast Agricultural and Resource Economics Association and Canadian Agricultural Economics Society, Pre-Conference Workshop on Agricultural Policy at Annual Meeting, Quebec PQ Canada, June 2008.
- Detre, J., S. Chintawar, T. Mark and J. Westra. “Assessing the Impacts of the Demand for Corn by the Biofuels Industry on Hog Production: Does Location Matter?” Southern Agricultural Economics Association, Annual Meeting, Dallas TX,

February 2008.

- Westra, J., R. Johansson and M. Livingston. "Economic and Environmental Effects of an Invasive Species: Asian Soybean Rust Nationally and in the Southern U.S." Southern Agricultural Economics Association, Annual Meeting, Dallas TX, February 2008.
- Westra, J., J. Huner and R. Caffey. "Louisiana' Agricultural Wetlands: Potential Ecological and Economic Benefits and Costs." Coastal Zone 07 (CZ 07) Conference, Portland OR, July 2007.
- Hall, L., K. Paudel, W. Gauthier and J. Westra. "Decision to Adopt and Exit Best Management Practices by Dairy Farmers." American Agricultural Economics Association, Annual Meeting, Portland OR, July 2007.
- Westra, J. "Nitrogen Leakiness in Agriculture: Potential for Recoupling Human and Natural Systems." 2nd Annual Ecology / Environment Brevia, Louisiana State University, Baton Rouge LA, April 2007.
- Westra, J. and P. Welle. "Economic Costs and Benefits Associated with Improved Environmental Quality in Two Agricultural Watersheds." Soil and Water Conservation Society, Managing Agricultural Landscapes for Environmental Quality, Kansas City MO, October 2006.
- Kim, S., J. Westra, and J. Gillespie. "The Adoption of Russian Varroa-Resistant Honey Bees." American Agricultural Economics Association, Annual Meeting, Long Beach CA, July 2006.
- Westra, J. and R. Johansson. "Pollution Credit Trading: A Means to Mitigate Uncertainty." American Water Resources Association, Adaptive Management of Water Resources, Missoula MT, June 2006.
- Kim, S., J. Westra, and J. Gillespie. "Factors Influencing the Adoption of Russian Varroa-Resistant Honey Bees." Southern Agricultural Economics Association, Annual Meeting, Orlando FL, February 2006.
- Gauthier, W., K. Paudel, L. Hall, and J. Westra. "Willingness to Accept Payment to Participate in Dairy Programs to Reduce Manure Related Problems in Louisiana's Major Dairy Production Region." Southern Agricultural Economics Association, Annual Meeting, Orlando FL, February 2006.
- Hall, L., K. Paudel, W. Gauthier, J. Westra, and H. Niu. "Determination of BMP Effectiveness in the Louisiana Dairy Production Region." Southern Agricultural Economics Association, Annual Meeting, Orlando FL, February 2006.
- Johansson, R., M. Livingston, J. Westra and K. Guidry. "Preliminary Estimates of

U.S. Economic and Environmental Effects of Treating and Adjusting to Asian Soybean Rust.” Northeastern Agricultural and Resource Economics Association, Workshop on Invasive Species, Annapolis MD, June 2005.

- Hall, L., K. Paudel, W. Gauthier and J. Westra. “Integrating Survey Information and GIS Modeling Approach to Develop an Optimal Decision Making Tool for Controlling Water Pollution in the Louisiana Dairy Production Region.” Southern Natural Resource Economics Committee (SERA 30), Annual Meeting, Tallahassee FL, May 2005.
- Gauthier, W., K. Paudel, J. Westra and L. Hall. “Influence of Cost Share and EQIP Payments on Adoption of Best Management Practices.” Southern Agricultural Economics Association, Annual Meeting, Little Rock AR, February 2005.
- Westra, J., J. Zimmerman and B. Vondracek. “Economic and Fisheries Effects of Select Conservation Programs of the 2002 Farm Act.” Soil and Water Conservation Society, Annual Conference, Saint Paul MN, July 2004.
- Gauthier, W., K. Paudel and J. Westra. “Economic Issues Associated with Disposal of Dairy Manure in a Watershed.” Academy of Economics and Finance, Annual Conference, Biloxi MS, February 2004.
- Westra, J., J. Zimmerman and B. Vondracek. “Potential Economic and Environmental Benefits of Conservation Security Program Practices.” Northeast Agricultural and Resource Economics Association, Annual Meeting and Workshop, Portsmouth NH, June 2003.
- Westra, J., J. Zimmerman and B. Vondracek. “Economic and Environmental Benefits of Mandated Agricultural Best Management Practices.” American Water Resources Association, Agricultural Hydrology and Water Quality Conference, Kansas City MO, May 2003.
- Vondracek, B., J. Zimmerman and J. Westra. “Setting an Effective TMDL for Suspended Sediment.” American Water Resources Association, Agricultural Hydrology and Water Quality Conference, Kansas City MO, May 2003.
- Westra, J. “Effects on Farm Income and the Environment from Targeting Agricultural Best Management Practices (BMPs).” Southern Agricultural Economics Association, Annual Meeting, Mobile AL, February 2003.
- Westra, J. “Estimated Impact on Farm Income and Greenhouse Gas Levels from Changing Agricultural Practices.” Southern Agricultural Economics Association, Annual Meeting, Mobile AL, February 2003.
- Westra, J. “Encouraging Farmers to Produce Environmental Benefits from Agriculture.” American Agricultural Economics Association, Annual Meeting, Long

Beach CA, July 2002.

- Zimmerman, J., B. Vondracek and J. Westra. "Effects of Agricultural Practices on Two Minnesota Watersheds." Minnesota Water 2002 and Minnesota Lakes and Rivers Conference, St. Cloud MN, May 2002.
- Zimmerman, J., B. Vondracek and J. Westra. "Effects of Agricultural Practices on Fish Communities in Two Minnesota Watersheds." American Fisheries Society, Minnesota Chapter, Annual Meeting, Duluth MN, May 2002.
- Westra, J. "Enviro-Economic Analysis of Phosphorus Nonpoint Pollution." American Agricultural Economics Association, Annual Meeting, Chicago IL, August 2001.
- Henry, J., B. Vondracek and J. Westra. "Effects of Agriculture on Fish Communities." American Fisheries Society, Joint Meeting of the Dakota, Minnesota, and Southeast Ontario Chapters, Fargo ND, June 2001.
- Westra, J., K. Easter and K. Olson. "Targeting Nonpoint Source Pollution Control: Phosphorus in the Minnesota River Basin." Integrated Decision-Making for Watershed Management Symposium: Processes and Tools, Chevy Chase MD, January 2001.
- Westra, J. "Economic Gains from Targeting Nonpoint Phosphorus Pollution." The Soil and Water Conservation Society, The Watershed Approach to Improving Water Quality: Fact or Fantasy, La Crosse WI, March 2000.
- Westra, J. "Agricultural Phosphorus Nonpoint Source Pollution in the Minnesota River." American Agricultural Economics Association, Annual Meeting, Nashville TN, August 1999.
- Westra, J. and K. Olson. "Farmers' Decisions Regarding Management and Technology Choices." Institute for Agriculture and Trade Policy, Farmer-Led Watershed Initiatives Conference, Mankato MN, February 1997.
- Westra, J. and K. Olson. "Non-Financial Factors of Farm Performance." American Agricultural Economics Association, Annual Meeting, San Antonio TX, July 1996.

Invited Seminars

- Westra, J. and J. Boutwell. "Wetlands as Protective Buffers: Relationships between Storms, Stakeholders and the Environment." Mississippi State University, Starkville, MS, November 2013.
- Westra, J. "Louisiana Agriculture: Changes in Land Use, Production and Rural Economy." Federal Reserve Bank of Kansas City, Kansas City, MO, July 2013.

- Westra, J. "Nutrient Management in Agriculture in the Mississippi River Basin." Louisiana Water Environment Association, Annual Technical Conference and Expo, Baton Rouge LA, April 2013.
- Westra, J. "Multifunctional Agriculture in the United States: Case Studies from Two Watersheds." Sustainable Agriculture Colloquium at Iowa State University, Ames IA, April 2007.
- Westra, J. "Potential Economic and Environmental Effect of Selected Conservation Programs (CSP and CRP)." USDA, Cooperative State Research, Education, and Extension Service, Washington DC, June 2005.
- Westra, J. "Multiple Benefits of Agriculture: An Integrated Analysis of Two Watersheds in Minnesota." School of Natural Resources, University of Nebraska, Lincoln NE, May 2005.
- Westra, J. "Policies for Reducing Nonpoint Pollution: Theoretical and Practical Considerations." School of Natural Resources, University of Nebraska, Lincoln NE, May 2005.

Professional Symposia Organization and Presentations

- Borisova, T., S. Amosson, S., T. Boyer, J. Westra, B. Guerrero, R. Hogan, J. Riley, L. Sanders, A. Smith, N. Smith, B. Watkins and D. Willis. "The Future of Water Resources in the South: Challenges and Potential Solutions" at the Southern Agricultural Economics Association, Annual Conference, Atlanta GA, February 2015.
- Paudel, K. and J. Westra. "Economics of Invasive Species in the Southeastern United States" at the Southern Agricultural Economics Association, Annual Conference, Dallas TX, February 2008.

Posters Presented at Professional Meetings

- Westra, J., H. Niu and J.M. Fannin. "Louisiana Agriculture Production through Space and Time." Agricultural and Applied Economics Association, 2015 Annual Meeting, San Francisco CA, July 2015.
- Boutwell, L. and J. Westra. "Context-dependent Value of the Wetlands for Protection against Coastal Storms." Restore Americas Estuaries/The Coastal Society Summit Meeting, Washington DC, November 2014.
- Boutwell, L. and J. Westra. "Wetlands as Storm Buffers: Case Studies from Louisiana." Agricultural and Applied Economics Association, 2014 Annual Meeting, Minneapolis MN, July 2014.
- Leiby, J. and J. Westra. "Queen Bee Technology Adoption: The Case of VSH

Queens.” Agricultural and Applied Economics Association, 2014 Annual Meeting, Minneapolis MN, July 2014.

- Boody, G., J. Westra, P. Wymar, A. Jaradat, J. Starr, S. Ewest, J. Paulson, B. Hines, K. Olson, T. VanDerPol, A. Marcum, J. Ahlers Ness, J. Hoffman, B. Freske, M. Hyde. “Chippewa 10% Project: Achieving Needed Ecosystem Services in an Agricultural Watershed.” National Cooperative Soil Survey (NCSS), National Conference, Annapolis MD, June 2013.
- Boutwell, L. and J. Westra. “Estimated Economic Loss to Producers in Louisiana from the 2011 Mississippi River Flood.” The Louisiana Remote Sensing and GIS Workshop, Lafayette LA, April 2013.
- Boutwell, L. and J. Westra. “Estimated Economic Loss to Producers of Row Crops in Louisiana Resulting from the 2011 Mississippi River Flood.” CNREP 2013: Challenges of Natural Resource Economics and Policy, New Orleans LA, March 2013.
- Leiby, J. and J. Westra. “Queen Bee Technology Adoption: The Case of VSH Queens.” CNREP 2013: Challenges of Natural Resource Economics and Policy, New Orleans LA, March 2013.
- Westra, J. and H. Niu. “Highlights of Louisiana Agriculture: Transforming data into an easily understandable visual representation by using GIS.” Annual Louisiana Remote Sensing and GIS Workshop, Baton Rouge LA, April 2012.
- Gauthier, W., H. Niu and J. Westra. “Using GIS Technology to Assess the Sustainability of the Louisiana Milkshed.” Annual Louisiana Remote Sensing and GIS Workshop, Baton Rouge LA, April 2012.
- Westra, J. and H. Niu. “Louisiana Agriculture Production through Space and Time.” Annual Louisiana Remote Sensing and GIS Workshop, New Orleans LA, May 2011.
- Westra, J., R. Hinson, B. Clark, and T. Cooper. “Louisiana’s Seafood Industry Recovery: Potential Economic Impacts of MarketMaker.” Southern Agricultural Economics Association, Annual Conference, Corpus Christi TX, February 2011.
- Matekole, A. and J. Westra. “Economic Analysis of Tillage and Nutrient Best Management Practices in the Ouachita River Basin, Louisiana.” Challenges of Natural Resource Economics and Policy: 3rd National Forum on Socioeconomic Research in Coastal Systems, New Orleans LA, May 2010.
- Westra, J. and A. Matekole. “Economic Analysis of Tillage and Nutrient Best Management Practices for Reducing Nutrient Export to the Gulf of Mexico from a Mississippi River Delta Watershed.” Soil and Water Conservation Society, Science to Solutions: Reducing Nutrient Export to the Gulf of Mexico Workshop, Des Moines

IA, December 2009.

- Westra, J., A. Matekole and T. Appelboom. "Economic Analysis of Tillage and Nutrient Best Management Practices in the Ouachita River Basin, Louisiana." Agricultural and Applied Economics Association, Annual Meeting, Milwaukee WI, July 2009.
- Westra, J., A. Matekole and T. Appelboom. "Economic Analysis of Tillage and Nutrient Best Management Practices in a Louisiana Subwatershed." Soil and Water Conservation Society, Annual Meeting, Dearborn MI, July 2009.
- Chintawar, S. and J. Westra. "Energy Cost Estimation of Sugar Ethanol: A Comparative Analysis with Corn Ethanol Production in the United States." American Agricultural Economics Association, Annual Conference, Orlando FL, July 2008.
- Westra, J., R. Hinson, C. Motsenbocker and R.W. Harrison. "Integrating Production and Marketing of Asian Vegetables: A Case Study of a Central American Firm's Strategy to Export into the North American Market." International Food and Agribusiness Management Association, Annual Conference, Monterey CA, June 2008.
- Westra, J., J. Huner and R. Caffey. "Ecological and Economic Benefits and Costs of Louisiana's Working Wetlands." Partners in Flight, 4th International Conference, McAllen TX, February 2008.
- Westra, J. and S. Kim. "Estimation of the Economic Impact of Russian Varroa-Resistant Honey Bees." Southern Agricultural Economics Association, Annual Conference, Orlando FL, February 2006.
- Westra, J., B. Vondracek, J. Zimmerman, G. Boody and P. Welle. "Multiple Benefits of Agricultural Practices: Economic and Environmental Effects in Two Watersheds." 2006 USDA-CSREES National Water Conference, San Antonio TX, February 2006.
- Westra, J., R. Caffey and J. Huner. "Working Lands Programs: Potential Tools for Conserving Agricultural Wetlands." Southern Agricultural Economics Association, Annual Conference, Little Rock AR, February 2005.
- Westra, J., R. Caffey and J. Huner. "Economic and Environmental Implications of Potential Policies to Address Agricultural Wetlands Loss." Soil and Water Conservation Society, Annual Conference, Saint Paul MN, July 2004.
- Westra, J. and K. Olson. "Factors Affecting Conservation Tillage Adoption." American Agricultural Economics Association, Annual Meeting, Salt Lake City UT, August 1998.
- Westra, J. "Economic Evaluation of Targeted and Nontargeted Phosphorus

Pollution Abatement Programs.” Minnesota Water Resources Center, Minnesota Water '98: Protecting Minnesota's Water Supplies, Minneapolis MN, May 1998.

- Westra, J. and K. Olson. “Farmers' Decision Processes and Adoption of Conservation Tillage.” International Association of Agricultural Economists, Annual Conference, Sacramento CA, August 1997.
- Westra, J. and K. Olson. “Farmers' Decision Processes and Adoption of Conservation Tillage.” Soil and Water Conservation Society, Annual Meeting, Toronto Ontario, July 1997.
- Westra, J. and K. Olson. “Farmers' Decision Processes and Adoption of Conservation Tillage.” Soil and Water Conservation Society, Cover Crops, Soil Quality, and Ecosystems, Sacramento CA, March 1997.

Editorial Board in Professional Organizations

- Associate Editor, *Journal of Soil and Water Conservation*, Soil and Water Conservation Society, 2009 – present.

Membership in Professional Organizations

- Agricultural and Applied Economics Association
- American Water Resources Association
- Association of Environmental and Resource Economists
- Northeastern Agricultural and Resource Economics Association
- Soil and Water Conservation Society
- Southern Agricultural Economics Association
- Western Agricultural Economics Association

Officer in Professional Organizations

- Officer (Chair, Vice-Chair, Secretary: 2004 - 2008) – Southern Extension Farm Management Committee
- Officer (President, Vice-President, and Secretary: 2005 - 2010) – Southern Natural Resource Economics Committee (SERA 30)

Scholarships and Fellowships

- Departmental Fellowship - University of Minnesota, 1994 - 1995.
- Nauman Fellowship - University of Maine, 1989 - 1990.
- Noyes Scholarship - University of Maine, 1988 - 1989.
- Grinnell Honor Scholarship - Grinnell College, 1981 - 1983.
- Grinnell Trustee Scholarship - Grinnell College, 1981 - 1983.
- David Memorial Scholarship - University of Nebraska, 1980 - 1981.

Professional Awards

- Best Poster Presentation – Westra, J., R. Hinson, B. Clark and T. Cooper. “Louisiana’s Seafood Industry Recovery: Potential Economic Impacts of MarketMaker.” Southern Agricultural Economics Association, Annual Conference, Corpus Christi TX, February 2011.
- USDA-NIFA Partnership Award, Multistate Effort – J. Westra and R. Hinson (co-Project Leaders in Louisiana) as part of the National Food MarketMaker Program, “for giving consumers better access to fresh, local foods and farmers more opportunities for profitability through successful, multistate partnership.” USDA – National Institute for Food and Agriculture, Washington DC, October 2010.
- Best Student Paper Presentation – Zimmerman, J., B. Vondracek, and J. Westra. “Effects of Agricultural Practices on Fish Communities in Two Minnesota Watersheds.” American Fisheries Society, Minnesota Chapter, Annual Meeting, Duluth MN, May 2002.

Awarded Research Support/Grant Activities – Total Awarded: \$5,501,018 – also see *Extension Support for Extension-related Awards*

- “Prairie Strips as an Innovative Agroecosystem Practice to Enhance Ecosystem Services from Farmers’ Fields” – USDA-NIFA AFRI Foundation Program: Renewable Energy, Natural Resources and Environment (RENRE), Agroecosystem Management priority area, \$500,000 (2015 – 2017) with L. Schulte-Moore, M. Harris, M. Helmers, R. Kolka, M. Liebman, M. Tomer and J. Tyndall (Iowa State).
- “Linking nutrient and hydrological dynamics in the Mississippi River Basin to the northern Gulf of Mexico” – LSU Coastal Sustainability Studio, New Projects Fund, \$33,481 (2014-2015) with F. Lipschitz and K. Xu (LSU).
- “Economic Cost/Benefit Estimates of Nutrient Management in Louisiana” – Louisiana Department of Environmental Quality (LDEQ), \$125,000 (2014-2015).
- “The Chippewa 10% Project: Ramping up Perennials to Achieve Water Quality Goals in an Agricultural Watershed” – Walton Family Foundation, \$863,000 (2012-2015) over three year with G. Boody and T. VanDerPol (Land Stewardship Project), B. Heins (Minnesota – Morris), K. Olson and P. Wymar (Chippewa River Watershed Project) and B. Freske (USFWS).
- “Assessing the Transfer and Economic Value of Mite-Resistance Trait Varroa-Sensitive Hygiene (VSH)” – USDA-ARS, \$10,000 (2012-2014) over two years.
- “Profitability for Small Beef Producers through Sustainable Forage Systems and Value Added Forage Fed Beef Production” – USDA-NIFA AFRI: Prosperity for Small

and Medium-sized Farms and Rural Communities, \$498,534 (2010-2013) over three years with G. Scaglia, J. Gillespie, R.W. Harrison, W. Prinyawiwatkul, M. Janes, K. McMillin (LSU AgCenter) and F. Malekian (Southern University).

- “Making Needed Ecosystem Services Pay in an Agricultural Watershed – Phase II” – Walton Family Foundation, \$299,991 (2010-2014) over five year with G. Boody and T. VanDerPol (Land Stewardship Project), J. Abdulla (USDA-ARS), D. Johnson and B. Heins (Minnesota – Morris), P. Wymar (Chippewa River Watershed Project) and B. Freske (USFWS).
- “Making Needed Ecosystem Services Pay in Minnesota Agricultural Watershed” – Minnesota Legislative-Citizen Commission on Minnesota Resources (LCCMR), \$247,000 (2010-2012) over three years with G. Boody and T. VanDerPol (Land Stewardship Project), J. Abdulla (USDA-ARS), D. Johnson and B. Heins (Minnesota – Morris) and P. Wymar (Chippewa River Watershed Project).
- “Improving Fall Organic Vegetable Crops and Soils with Summer Cover Crops” – Southern SARE Research and Education. \$193,500 (2010-2012) over three years with C. Motsenbocker, D. Labonte, R. Hinson, D. Ferrin, R. Story, G. Breitenbeck, M. Kongchum, M. McKenna (LSU AgCenter), B. Evans (Mississippi State), R. Mentreddy (Alabama A&M) and R. Chintha (Alcorn State).
- “Making Needed Ecosystem Services Pay in an Agricultural Watershed” – USDA-CSREES AFRI and EPA STAR Enhancing Ecosystem Services from Agricultural Lands: Management, Quantification, and Developing Decision Support Tools. \$468,551 (2010 - 2013) over four years with G. Boody and T. VanDerPol (Land Stewardship Project), J. Abdulla (USDA-ARS), D. Johnson and B. Heins (Minnesota – Morris) and P. Wymar (Chippewa River Watershed Project).
- “Making Needed Ecosystem Services Pay in an Agricultural Watershed” – Walton Family Foundation, \$199,992 (2009) over one year with G. Boody and T. VanDerPol (Land Stewardship Project), J. Abdulla (USDA-ARS), D. Johnson and B. Heins (Minnesota – Morris), P. Wymar (Chippewa River Watershed Project) and B. Freske (USFWS).
- “Developing a foundation for analysis of natural and human-induced disturbances to coastal economies” – Northern Gulf Institute (NGI), \$32,708 over two-year period (2008-2009) with D. Petrolia (Mississippi State).
- “Promotion strategies for Louisiana Vegetable and Sweet Potatoes” – Louisiana Department of Agriculture and Forestry. \$27,500 over two-year period (2008-2009) with R. Hinson (LSU AgCenter).
- “A Simulation Study to Evaluate Ditch-drainage, Stream-flow Diversion, and In-stream Process for Reducing Nitrate Loads in Stream Networks” – USDA-ARS \$170,561 over three-year period (2006-2009) with D. Thomas (LSU AgCenter) and

J. Fouss (USDA-ARS).

- “Understanding Linkages between Human and Biogeochemical Processes in Agricultural Landscapes” – NSF Biocomplexity in the Environment: Integrated Research and Education in Environmental Systems, Dynamics of Coupled Natural and Human Systems. \$1,600,000 over five-year period (2006-2011) with L. Drinkwater and S. Wolf (Cornell), C. Li (New Hampshire), M. David (Illinois), S. Snapp (Michigan State) and S. Greenhalgh and L. Marshall (World Resources Institute).
- “Calibrating and Enhancing the U.S. Regional Agricultural Sector Mathematical Programming Model (USMP)” – USDA-ERS \$45,000 over two-year period (2003-2005) with R. Johansson (USDA-ERS).
- “Estimating the Economic Impact of the Release by USDA ARS of a Stock of Russian Honey Bees Resistance to *Varroa destructor*” – USDA-ARS \$86,200 over two-year period (2003-2005) with T. Rinderer (USDA-ARS).
- “An Economic Analysis of Opportunities for Economic Development and Environmental Enhancement on Farm and Forest Lands in the Louisiana Delta Region: The Feasibility and Efficacy of Landowner Cooperatives” – Louisiana State University Graduate School Competitive Graduate Research Assistantship Grant \$100,000 over four-year period (2003-2007), with M.A. Dunn (LSU AgCenter).

Submitted Research Support/Grant Activities

- “Production and Market Development for Grass-fed Beef in the Gulf Coast Region of the U.S.” – USDA-NIFA AFRI: Prosperity for Small and Medium-sized Farms and Rural Communities, \$499,9644 (2016-2019) over four years with G. Scaglia, J. Gillespie and J. Westra (LSU AgCenter).

Unfunded Research Support/Grant Activities

- “Managing the Response of Coastal Riparian Forests of the Southeast US to Climate Variability and Change” – USDA-NIFA Agriculture and Food Research Initiative (AFRI): Agriculture and Natural Resources Science for Climate Variability and Change \$9,996,540 (2012) with T. Dean, R. Kiem, J. Anderson, M. Kaller, A. Rutherford, S. Taylor (LSU AgCenter); P. Blanchard (LSU); M. Macaуда, A. Hiscox (S. Carolina); H. Tian, L. Kalin, C. Anderson (Auburn); W. Conner (Clemson); K. Krauss (USGS); D. Scott (Virginia Tech); and M. Gooseff (Penn State).
- “Identifying Economic Factors in Understanding Land Use Patterns, Hypoxia and its Effects on the Fisheries Industry in the Northern Gulf of Mexico” – USEPA Gulf of Mexico Program \$107,549 (2009) with S. Chintawar (LSU AgCenter).
- “Enhancing Prosperity and Viability of Small and Medium-sized Farms through

Better Access to Agricultural Credit” – USDA-CSREES AFRI: Agricultural Prosperity for Small and Medium-sized Farms \$400,000 (2009) with J. Detre and A. Mishra (LSU AgCenter).

- “Increasing the competitiveness of Louisiana specialty crops through brand development, identification of target markets, quality indicators, and delivery channel preferences” – Louisiana Department of Agriculture (LDAF) – USDA-AMS Specialty Crops Block Grant Program \$54,513 (2009) with R. Hinson and C. Motsenbocker (LSU AgCenter).
- “Increasing competitiveness of Louisiana specialty crop producers with a widely used Internet search tool – MarketMaker” – Louisiana Department of Agriculture (LDAF) – USDA-AMS Specialty Crops Block Grant Program \$59,529 (2009) with R. Hinson (LSU AgCenter).
- “Investigations of the Economic Contributions and Consumer Purchasing Behavior in the U.S. Environmental Horticulture (Nursery/Floriculture) Industry” – USDA-CSREES Specialty Crops Initiative \$5,214,504 (2009) with R. Hinson (LSU AgCenter), C. Hall (Texas A&M) and others.
- “Specialty Crop Farms in the Delta Region: What are the Management Strategies Needed to Ensure Success” – USDA-CSREES Specialty Crop Initiative \$459,144 (2009) with J. Detre and A. Mishra (LSU AgCenter).
- “Southeastern Specialty Crops Consortium: Securing Small Farms; Sustaining Natural Resources; Ensuring Consumer Trust” – USDA-CSREES Specialty Crops Initiative \$5,000,000 (2008) with R. Hinson and C. Motsenbocker (LSU AgCenter), A. Wysocki (Florida) and others.
- “Investigations of Sustainable Production Practices, Economic Contributions, Consumer Behavior, and Labor Management in the U.S. Environmental Horticulture (Nursery/Floriculture) Industry” – USDA-CSREES Specialty Crops Initiative \$6,500,000 (2008) with R. Hinson and J. Kuehny (LSU AgCenter), C. Hall (Texas A&M) and others.
- “Achieving Multiple Benefits from Drainage Water Management Implementation: Improved Water Quality, Wildlife Habitat and Economic Stability” – USDA-CSREES National Integrated Water Quality Program, Integrated Research, Education and Extension Program \$554,322 (2007) with D. Thomas, F. Rohwer and M. Rome (LSU AgCenter), S. Faulkner (USGS), J. Fouss and T. Appelboom (USDA-ARS), D. Daigle (Lower Mississippi River Sub-basin Committee on Hypoxia).
- “Analysis of Multifunctional Impacts of Biofuels and Ecolabeled Food Production Management Systems.” – USDA-CSREES National Research Initiative Managed Ecosystems Program \$500,000 over two-year period (2007) with G. Boody (Land Stewardship Project), H. Murray, D. Carrant and B. Vondracek (Minnesota).

- “Potential Economic and Environmental Effects from Fee Hunting Enterprises for Delta Farmers” – USDA-CSREES, National Research Initiative \$499,577 over three-year period (2006) with M. Dunn (LSU AgCenter), S. Grado and M. Measells (Mississippi State), S. Mehmood (Arkansas), and T. Appelboom (USDA-ARS).
- “Institutional, Economic and Environmental Analysis of a Mississippi River Basin Water Quality Trading Network” – USDA-CSREES National Integrated Water Quality Program, Integrated Research, Education and Extension Program \$599,410 (2005) with S. Greenhalgh (World Resources Institute) and R. Johansson (USDA-ERS).
- “Understanding Linkages Between Water Quality, Agricultural Management, Institutions and Policy Instruments” – USDA-CSREES National Integrated Water Quality Program, Integrated Research, Education and Extension Program \$600,000 (2005) with L Drinkwater, S. Wolf and C. Tonitto (Cornell) and S. Greenhalgh (World Resources Institute).
- “An Integrated Evaluation of the Environmental and Economic Effectiveness of Implementing Best Management Practices in the Cabin Teele Subwatershed, Louisiana” – USDA-CSREES National Integrated Water Quality Program, Integrated Research, Education and Extension Program \$600,000 (2005) with J. Day and R. Lane (LSU) and J. Fouss (USDA-ARS).
- “Supporting Sustainable Organic Soil Fertility Management: Meeting Economic and Environmental Goals” – USDA-CSREES Integrated Organic Program, Organic Agriculture Research and Extension Initiative \$845,768 (2005) with L Drinkwater (Cornell), S. Johnston (Northeast Organic Farmers Association), and L. Cooperband and M. Wander (Illinois).
- “Development of a Mississippi River Basin Water Quality Trading Network for Watershed TMDLs” – USDA-CSREES National Integrated Water Quality Program, Integrated Research, Education and Extension Program \$599,145 (2004) with S. Greenhalgh (World Resources Institute), R. Johansson (USDA-ERS), P. Gowda (Minnesota), and K. Paudel (LSU AgCenter).
- “The Socioeconomic, Recreation and Resource Harvestings Implications from Developing a Water Pollution Reduction Tool Utilizing High Resolution Airborne CIR Orthophotography in the Lake Pontchartrain Basin” – Pontchartrain Restoration Program \$603,114 (2004) with K. Paudel and W. Gauthier (LSU AgCenter), and B. Acharya (Earth Mapping International).
- “Analysis of Louisiana Crawfish Industry in a Joint Product Framework: Implications for Crawfish Industry Profit, Water Quality, and Water Quantity” – USDA Special Aquaculture Grant \$50,000 (2003), with K. Paudel and J. Gillespie (LSU AgCenter).
- “The Ecological and Economic Impact of Waterbirds in Commercial Rice-Crawfish

Field Ecosystems in Southwestern Louisiana” – USDA/CSREES National Research Initiative \$573,000 (2002), with P. Leberg, J. Huner and C. Jeske (ULL), and R. Romaire (LSU AgCenter).

- “Establishing a Bioplastics Industry in Louisiana” – Louisiana Board of Regents – Governor’s Biotechnology Initiative \$2,855,000 (2002), with T. Cleij, K. Gravois, G. Knapp, R. Malone, T. Monroe, I. Negulesca, A. Roy, K. Rusch and R. Seals (LSU).

Theses/Dissertations of Graduate Students – see *Instructional Activities* section

USDA Hatch Research Project

- LAB94135 – “Economic Analysis of Agricultural Management Decisions on Profitability and Ecosystem Services in Louisiana and the Mississippi River Basin,” Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center (2012 – 2016).
- LAB93733 – “Evaluating the Economic and Environmental Effects of Agricultural Management Decisions in Louisiana,” Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center (2004 – 2011).

USDA Multi-state Research and Extension Projects

- SERA 46 – Framework for Nutrient Reduction Strategy Collaboration: the Role for Land Grant Universities (2014 – present)
- LAB94058 (NE-1044) – Whole Farm Dairy and Beef Systems for Environmental Quality (2005 – present)
- SERA 35 – Delta Region Farm Management and Agricultural Policy Working Group (2002 – present)
- SERA 30/S_TEMP 2522 – Southern Natural Resource Economics Committee (2002 – 2012)

Cooperative/Collaborative Efforts with Other Faculty

Numerous, multidiscipline and multi-institutional collaborative efforts with faculty in this department and other departments at the LSU AgCenter, LSU, other universities, federal and state agencies, and non-governmental organizations, in all facets of research and extension activities as demonstrated by review of sections under Research Activities, in collaborative, leadership and administrative roles.

Overall Program Impact

Interdisciplinary collaboration with faculty at various universities and federal agencies has resulted in projects supported by extramural funding that address critical issues of nutrient reduction in agricultural systems to mitigate local (TMDLs) and national

(hypoxia) water quality problems. Publications (peer-reviewed and others) from these projects identify the potential economic effects (farm-level, regional or national) and the positive impact that changes in agricultural practices can have on the environment under various policy scenarios. Published findings are disseminated (hardcopy and online) to producers in study areas, peers at professional meetings and policymakers at state and federal levels. As a result of this research effort, I have been invited to advise and participate in similar integrated analyses with economists in Canada and other research scientists in other regions of the U.S. to study economic aspects of agricultural systems that seek to address environmental concerns. Valuing various ecosystem services and goods, using market and nonmarket methods, have been used to expand range of economic values included in these integrated analyses. Using research findings, I am extending research projects to examine economic aspects and impacts of local food systems in community, determine how that affects producers' selection of land management systems and how that in turn impacts ecosystem services and goods produced in that local watershed. Additionally, data and research results have been incorporated into decision-support tools that can be used by local landowners and operators in making decisions about land use and production practices that maintain or increase profits while supporting more ecosystem services and goods from agricultural systems.

Extension Activities

Documentation of Major Program Areas and Initiatives

- **Louisiana Summary of Agricultural and Natural Resources:** Coordinate and lead the overall effort of county agents, state specialists, and professional staff within the LSU AgCenter to produce the *Louisiana Summary of Agriculture and Natural Resources (AgSummary)* annually. This major publication with the LSU AgCenter provides parish and state level production and economic information for more than 200 agricultural and natural resource commodities produced in Louisiana each year. Coordinate and gather state-level market price data, county-level production and area of production data for each commodity. Coordinate, draft and edit text narrating data summaries in the publication. Develop and deliver agent training on data-gathering protocols and lead efforts to improve consistency with which the data are gathered. Additionally, in 2008 (continuing to date), initiated and developed a supplemental publication, *Highlights of Louisiana Agriculture*, which used information from the *AgSummary* in a GIS to create maps for spatial and graphical presentation of this information in a more compact and readily understood printed format.
- **Natural Resource Conservation Policy and Economics:** Develop educational materials and provide information on agricultural conservation programs and environmental policies affecting agriculture. Develop educational materials and curriculum, provide information and conduct applied economic analysis in natural resource conservation in agriculture, particularly new Mississippi River Basin Initiative and migratory waterfowl programs with USDA-NRCS. Efforts include multidisciplinary efforts in horticultural crops, row crops and livestock Best Management Practices, collaborating with the Louisiana Master Farmer program, and serving on the State Technical Advisory Committees for USDA-NRCS. Such efforts resulted in USDA-NRCS pilot program within Louisiana of payments for waterfowl habitat creation in rice fields during non-productive seasons of year.
- **Louisiana MarketMaker:** Coordinate and direct this nationally, award-winning program. Direct the efforts of grant-funded extension associate and county agents, state specialists, and professional staff within the LSU AgCenter to implement this free, internet-based direct marketing tool that connects Louisiana agricultural and natural resource producers (including commercial fishermen) with buyers along the food marketing chain (including wholesalers, restaurants, grocery stores and other agribusiness firms) to increase marketing opportunities and economic output in the local food system. Using MarketMaker, producers and other food-related businesses keep consumers/buyers informed about product availability, while buyers utilize convenient internet search tools to locate products from willing producers/sellers.
- **Louisiana MarketReady:** Coordinate and direct this award-winning program that was developed in Kentucky. Direct the efforts of grant-funded extension associate and county agents within the LSU AgCenter to implement this marketing program that uses best business practices to train producers in critical business functions that

prepare them to sell directly to local restaurants, schools, and grocery/wholesale/retail business buyers. This program helps producers increase marketing opportunities and economic output in the local food system. Using MarketReady Program, producers improve relationships with buyers and increase sales volume and revenue from their farming operation.

- **Risk Management/Farm Financial Management:** Develop educational materials and deliver educational programs in risk management and farm financial management to Louisiana producers. These include general risk management, crop insurance, and revenue insurance programs of latest Farm Bill. Use theoretical foundations of portfolio analysis to conduct applied analysis of alternative natural resource enterprises to mitigate income and production risk for producers.

Advisory Process and Critical Issue Responsiveness

- Appointed Commissioner by Governor of Louisiana, in 2010, reappointed in 2014, to serve on the *Capital Area Groundwater Conservation Commission* representing East Baton Rouge City and Parish. Served (2010 – present) on the commission which serves to protect the quality and quantity of groundwater in the capital area and to promote the orderly development of groundwater resources. Reappointed in 2013.
- As a result of concerns about local food systems, the Louisiana Legislature, under Act 388 of the 2010 Regular Session established the *Louisiana Sustainable Local Food Policy Council*. At the request of the Chancellor of the LSU AgCenter, served on this Council (2010 – 2011) to help identify policy options and action steps to build sustainable local food systems that will create jobs, stimulate economic development, protect the environment and preserve open spaces, increase consumer access to fresh and nutritious foods, and provide greater food security.
- In response to concerns by the Louisiana Legislature about freshwater fisheries management in 2007, was appointed as Economist (2007 – 2009), representing the LSU AgCenter, on the *Louisiana Recreational Freshwater Fishing Task Force*. This task force was created by the Legislature to advise the Department of Wildlife and Fisheries on the management, development and promotion of freshwater fisheries.
- To help determine how farm land values have changed in Louisiana over the preceding year, I have served on the *Farm Land Market Advisory Committees (FLMAC)* for USDA-Farm Service Agency, representing the LSU AgCenter Cooperative Extension Service (2006 – present).
- In response to concerns about Hypoxia nation-wide and in Louisiana, have served (2002 – present) on the *Louisiana Hypoxia Working Group*. Help engage stakeholders from federal and state agencies, commodity/industry groups, non-governmental organizations and faculty from state universities in process of disseminating information on hypoxia. As Hypoxia adversely influences Louisiana's fisheries and involves agriculture as a contributing source, involvement in

collaborative efforts addressing this problem locally and up-river is vital.

- Have represented the LSU AgCenter (2002 – present) on the *State Technical Advisory Committees* (State TAC) for USDA-Natural Resource Conservation Service, so as to become aware of emerging programs and conservation policy changes affecting agriculture in Louisiana and the nation. Changes in administration of USDA conservation programs or changing emphases or emerging resource concerns are discussed and debated at these meetings. Improved collaboration between institutions and improved administration of conservation programs, including economic efficiencies result from these efforts.

Innovative Teaching Methods

- **Louisiana Summary:** Developed teaching and reference materials to improve agents' understanding of different commodities entered into the on-line Ag Summary database since 2006. Collaborating with other Specialists to develop and deliver agent-training on the Ag Summary and data entry via distance video conferencing to agents at satellite locations throughout the state and developed on-line instructional webinars demonstrating how best to collect and enter data for Ag Summary.
- **Louisiana MarketMaker:** Developed teaching and reference materials to assist buyers/sellers understanding how to establish user profiles on the website. Collaborating with other faculty, developed and delivered series of training sessions via distance delivery sites for faculty and staff within the LSU AgCenter and partners at Southern University AgCenter, Louisiana Department of Agriculture and Forestry and Louisiana Department of Wildlife and Fisheries on the Louisiana MarketMaker website, registration process, and powerful search capabilities for target marketing for producers and agribusinesses. Developed on-line instructional webinars using Camtasia software to introduce the importance of MarketMaker, explain how to register your agribusiness and demonstrate how to conduct targeted market searches, for both buyers and sellers. These webinars provide online technical training under the Trade Adjustment Assistance (TAA) Program for thousands of commercial fishermen (shrimpers) and catfish producers in the southern US for 2010-2012.
- **Louisiana MarketReady:** Modified, adapted and delivered training materials from this program developed at the University of Kentucky. Training program now reflects Louisiana conditions and contains examples from Louisiana. Incorporated local business leaders and resident experts in liability insurance and farm-to-school program in Louisiana into the training modules. Integrated recent, relevant information from Food Safety Modernization Act (FSMA) into training modules for Louisiana MarketReady.

Program Delivery Effectiveness

- **Natural Resource Conservation Policy and Economics:** As a result of efforts at

State TAC meetings and working with USDA-NRCS staff to increase the use of economic information in administering conservation programs, USDA-NRCS in Louisiana now uses a measure of economic efficiency (dollars spent per unit of environmental benefit) in ranking applications for working lands programs like Environmental Quality Incentive Program (EQIP). By using this metric among the criteria used to rank applications, increased environmental benefits for a given level of public expenditure occurs from changes in agricultural practices in Louisiana under the affected working lands programs.

- **Natural Resource Conservation Policy and Economics:** Efforts in oral and poster presentations that document the economic and environmental benefits of agricultural wetlands, and the costs associated with providing these benefits, have provided research-based information to staff with USDA-NRCS and representatives of the Louisiana Farm Bureau to help propose modifications to existing conservation programs. As a result of the recent deep-water oil disaster in the Gulf of Mexico, U.S. Congress enacted changes to conservation programs along the lines of those we had proposed. This new program will provide financial and technical support to rice and crawfish farmers who provide needed habitat and ecosystem services for resident and migratory wildlife and waterfowl in this susceptible and critical region of the country – the Gulf Coast and the Lower Mississippi River Delta.
- **Louisiana MarketMaker:** Instructional meetings, outreach efforts at tradeshow, interviews with media (print, radio, TV and online), to help register businesses online have reached and registered over 22,000 Louisiana producers and agribusiness firms since MarketMaker inaugurated online in Louisiana in September 2010. Efforts have resulted in more than 6 million website hits, consistently averaging 101,000 monthly visits and used by more than 9,000 unique users per month since inception. This ranks Louisiana MarketMaker consistently among the top programs in the nation of the 20 member states.
- **Louisiana MarketMaker:** On-line instructional webinars, developed using Camtasia software, have been used by over 500 Louisiana producers and agribusiness firms in the first year MarketMaker was online in Louisiana to help register businesses online. Provided training technical training to 2,420 commercial shrimpers and catfish producers under the Trade Adjustment Assistance (TAA) Program on direct marketing and the MarketMaker program in Louisiana. Additionally, provide online technical training, via webinars developed on MarketMaker program, under the TAA Program to more than 6,275 commercial fishermen (shrimpers) and catfish producers in the southern US for 2010-2012.

LSU AgCenter Publications - Edited

- *Highlights of Agriculture 2014.* 2015. Louisiana State University Agricultural Center. Publication #AC-4.
- *Louisiana Summary: Agriculture and Natural Resources 2014.* 2015. Louisiana

State University Agricultural Center. Publication #2382.

- *Highlights of Agriculture 2013*. 2014. Louisiana State University Agricultural Center. Publication #AC-4.
- *Louisiana Summary: Agriculture and Natural Resources 2013*. 2014. Louisiana State University Agricultural Center. Publication #2382.
- *Highlights of Agriculture 2012*. 2013. Louisiana State University Agricultural Center. Publication #AC-4.
- *Louisiana Summary: Agriculture and Natural Resources 2012*. 2013. Louisiana State University Agricultural Center. Publication #2382.
- *Highlights of Agriculture 2011*. 2012. Louisiana State University Agricultural Center. Publication #AC-4.
- *Louisiana Summary: Agriculture and Natural Resources 2011*. 2012. Louisiana State University Agricultural Center. Publication #2382.
- *Highlights of Agriculture 2010*. 2011. Louisiana State University Agricultural Center. Publication #AC-4.
- *Louisiana Summary: Agriculture and Natural Resources 2010*. 2011. Louisiana State University Agricultural Center. Publication #2382.
- *Highlights of Agriculture 2009*. 2010. Louisiana State University Agricultural Center. Publication #AC-4.
- *Louisiana Summary: Agriculture and Natural Resources 2009*. 2010. Louisiana State University Agricultural Center. Publication #2382.
- *Highlights of Agriculture 2008*. 2009. Louisiana State University Agricultural Center. Publication #AC-4.
- *Louisiana Summary: Agriculture and Natural Resources 2008*. 2009. Louisiana State University Agricultural Center. Publication #2382.
- *Highlights of Agriculture 2007*. 2008. Louisiana State University Agricultural Center. Publication #AC-4.
- *Louisiana Summary: Agriculture and Natural Resources 2007*. 2008. Louisiana State University Agricultural Center. Publication #2382.
- *Louisiana Summary: Agriculture and Natural Resources 2006*. 2007. Louisiana State University Agricultural Center. Publication #2382.

- *Louisiana Summary: Agriculture and Natural Resources 2005*. 2006. Louisiana State University Agricultural Center. Publication #2382.

LSU AgCenter Publications – Co-Edited

- *Value of Agriculture 2011*. 2012. Edited by M. Fannin and J. Westra. Louisiana State University Agricultural Center. Publication #AC-2.
- *Value of Agriculture 2010*. 2011. Edited by M. Fannin and J. Westra. Louisiana State University Agricultural Center. Publication #AC-2.
- *Value of Agriculture 2009*. 2010. Edited by M. Fannin and J. Westra. Louisiana State University Agricultural Center. Publication #AC-2.
- *Value of Agriculture 2008*. 2009. Edited by M. Fannin and J. Westra. Louisiana State University Agricultural Center. Publication #AC-2.
- *Value of Agriculture 2007*. 2008. Edited by M. Fannin and J. Westra. Louisiana State University Agricultural Center. Publication #AC-2.

LSU AgCenter Publications

- Westra, J. 2012. "Conservation Programs" in *2012 Outlook For Louisiana's Agriculture*, Louisiana State University Agricultural Center, Publication No. 3048, pp 49 - 52.
- Westra, J. 2011. "Conservation Programs" in *2011 Outlook For Louisiana's Agriculture*, Louisiana State University Agricultural Center, Publication No. 3048, pp 48 - 50.
- Westra, J. 2010. "Conservation Programs" in *2010 Outlook For Louisiana's Agriculture*, Louisiana State University Agricultural Center, Publication No. 3048, pp 48 - 51.
- Westra, J. 2009. "Conservation Programs" in *2009 Outlook For Louisiana's Agriculture*, Louisiana State University Agricultural Center, Publication No. 3048, pp 46 - 50.
- Westra, J. 2008. "Conservation Programs" in *2008 Outlook For Louisiana's Agriculture*, Louisiana State University Agricultural Center, Publication No. 3048, pp 47 - 51.
- Kim, S., J. Westra, and K. Guidry. 2007. "An Overview of Louisiana Crop Insurance." Risk Management Education Series Fact Sheet 1. Baton Rouge, LA: LSU AgCenter.

- Kim, S., J. Westra, and K. Guidry. 2007. "Types of Crop Insurance Policies." Risk Management Education Series Fact Sheet 2. Baton Rouge, LA: LSU AgCenter.
- Westra, J. 2006. *Ag Summary Enterprise Descriptions*. LSU AgCenter.
- Tootle, D., R. Hinson and J. Westra. 2004. *Brave New Communities: Biotechnology as a Rural Development Strategy*. Department of Agricultural Economics and Agribusiness, LSU AgCenter. Staff Paper SP2004-02.

Mass Media

- Recorded presentation at Baton Rouge Press Club about findings from the 2014 Louisiana Summary of Agriculture and Natural Resources by Louisiana Public Broadcasting. Television broadcast statewide in Louisiana in April and May 2015
- Interviewed about figures and importance of agricultural production in the 2014 Louisiana Summary of Agriculture and Natural Resources by numerous newspapers. Published articles nationally, statewide and locally in print and online newspapers in April and May 2015.
- Interviewed about material in the 2013 Louisiana Summary of Agriculture and Natural Resources and the Louisiana MarketMaker Program by Local Louisiana a local radio program. Radio broadcast in New Orleans Louisiana in May 2014.
- Recorded presentation at Baton Rouge Press Club about findings from the 2013 Louisiana Summary of Agriculture and Natural Resources by Louisiana Public Broadcasting. Television broadcast statewide in Louisiana in April and May 2014.
- Interviewed about information in the 2013 Louisiana Summary of Agriculture and Natural Resources by Louisiana Network News as part of "Jim Engster Show" and other local radio stations. Radio broadcast statewide in Louisiana in April 2014.
- Interviewed about information in the 2013 Louisiana Summary of Agriculture and Natural Resources by Louisiana Network News and other local radio stations. Radio broadcast statewide in Louisiana in April and May 2014.
- Interviewed about figures and importance of agricultural production in the 2013 Louisiana Summary of Agriculture and Natural Resources by numerous newspapers. Published articles nationally, statewide and locally in print and online newspapers in April and May 2014.
- Interviewed about material in the 2013 Louisiana Summary of Agriculture and Natural Resources by Louisiana Farm Bureau News. Television broadcast statewide in Louisiana in April 2014.

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- Interviewed about material in the 2012 Louisiana Summary of Agriculture and Natural Resources by Louisiana Farm Bureau News. Television broadcast statewide in Louisiana in April 2013.
- Interviewed about information in the 2011 Louisiana Summary of Agriculture and Natural Resources and the Louisiana MarketMaker Program by Local Louisiana a local radio program. Radio broadcast in New Orleans Louisiana in April 2012.
- Recorded presentation at Baton Rouge Press Club about findings from the 2011 Louisiana Summary of Agriculture and Natural Resources by Louisiana Public Broadcasting. Television broadcast statewide in Louisiana in March and April 2012.
- Interviewed about material in the 2011 Louisiana Summary of Agriculture and Natural Resources by Louisiana Farm Bureau News. Television broadcast statewide in Louisiana in March and April 2012.
- Interviewed about information in the 2011 Louisiana Summary of Agriculture and Natural Resources by Louisiana Network News and other local radio stations. Radio broadcast statewide in Louisiana in March 2012.
- Interviewed about figures and information in the 2011 Louisiana Summary of Agriculture and Natural Resources by numerous newspapers. Published articles nationally, statewide and locally in print and online newspapers in March – May 2012.
- Recorded presentation at Baton Rouge Press Club about findings from the 2010 Louisiana Summary of Agriculture and Natural Resources by Louisiana Public Broadcasting. Television broadcast statewide in Louisiana in March 2011.
- Interviewed about information in the 2010 Louisiana Summary of Agriculture and

Natural Resources by Louisiana Network News and local National Public Radio affiliate. Radio broadcast statewide in Louisiana in March 2011.

- Interviewed about material in the 2010 Louisiana Summary of Agriculture and Natural Resources by several newspapers. Published articles internationally, nationally, statewide and locally in print and online newspapers in March – April 2011.
- Interviewed about the nationally, award-winning Food MarketMaker Program by several newspapers in Louisiana. Published articles statewide in Louisiana in major and minor newspapers in October - December 2010.
- Recorded interview at local television stations about the Louisiana MarketMaker Program. Television broadcast locally in Baton Rouge LA on various local television stations in September - October 2010.
- Recorded interview at LSU AgCenter about the Louisiana MarketMaker Program. Television broadcast statewide in Louisiana on various local television stations in August - October 2010.
- Recorded interview for Louisiana Farm Bureau about the Louisiana MarketMaker Program for their program “This Week in Louisiana Agriculture.” Television broadcast statewide in Louisiana in August 2010.
- Recorded interview at Louisiana Public Broadcasting about value-added agriculture and overall economic impact of agriculture in Louisiana for the Louisiana Town Square program by Louisiana Public Broadcasting. Television broadcast statewide in Louisiana in July 2010.
- Recorded presentation at Baton Rouge Press Club about findings from the 2009 Louisiana Summary of Agriculture and Natural Resources by Louisiana Public Broadcasting. Television broadcast statewide in Louisiana in March 2010.
- Interviewed about information in the 2009 Louisiana Summary of Agriculture and Natural Resources by Louisiana Network News and local National Public Radio affiliate. Radio broadcast statewide in Louisiana in March 2010.
- Interviewed about information in the 2009 Louisiana Summary of Agriculture and Natural Resources by several newspapers. Published articles nationwide and statewide in Louisiana in major and minor newspapers in March 2010.
- Interviewed about information in the 2008 Louisiana Summary of Agriculture and Natural Resources by Louisiana Network News and LSU AgCenter Communications. Radio broadcast statewide in Louisiana in April 2009.
- Interviewed about information in the 2008 Louisiana Summary of Agriculture and

Natural Resources by Associated Press. Article distributed nationwide by their news network in April 2009.

- Interviewed about findings from 2007 Farm Bill survey of Louisiana producers by Louisiana Farm Bureau television program – “This Week in Louisiana Agriculture.” Broadcast statewide in Louisiana in January 2007.
- Interviewed about findings from 2007 Farm Bill survey of Louisiana producers broadcast by Louisiana Network News radio program. Broadcast statewide in Louisiana in January 2007.

Cooperation with Faculty – Conferences and Workshops Organized/Assisted

- “CNREP 2016: Challenges of Natural Resource Economics and Policy, 5th National Forum on Socioeconomic Research in Coastal Systems”, Center for Natural Resource Economics and Policy (CNREP), LSU AgCenter, New Orleans LA, March 2016.
- “CNREP 2013: Challenges of Natural Resource Economics and Policy, 4th National Forum on Socioeconomic Research in Coastal Systems”, Center for Natural Resource Economics and Policy (CNREP), LSU AgCenter, New Orleans LA, March 2013.
- “CNREP 2010: Challenges of Natural Resource Economics and Policy, 3rd National Forum on Socioeconomic Research in Coastal Systems”, Center for Natural Resource Economics and Policy (CNREP), LSU AgCenter, New Orleans LA, May 2010.
- Southern Extension Farm Management Committee, Annual Meeting, New Orleans LA, June 2008.
- “Economics of Water” Workshop, Federal Reserve Bank – New Orleans, New Orleans LA, June 2008.
- Southern Natural Resource Economics Committee (SERA 30), Annual Meeting, Washington DC, May 2008.
- Southern Extension Farm Management Committee, Annual Meeting, San Antonio TX, June 2007.
- “Challenges of Natural Resource Economics and Policy: 2nd National Forum on Socioeconomic Research in Coastal Systems”, Center for Natural Resource Economics and Policy (CNREP), LSU AgCenter, New Orleans LA, May 2007.
- Southern Natural Resource Economics Committee (SERA 30), Annual Meeting, New Orleans LA, May 2007.

Awarded Extension Support/Grant Activities – Total Awarded: \$1,042,267 – see *Research Support for Research-related Awards*

- “Train Louisiana Specialty Crop Growers in Market Ready and Food Safety Modernization Act (FSMA) Regulations and Practices” – Louisiana Department of Agriculture (LDAF), Specialty Crops Program, \$33,682 (2014-2015).
- “Increasing Competitiveness of Louisiana Specialty Crop Producers with MarketMaker” – Louisiana Department of Agriculture (LDAF), Specialty Corps Program \$51,905 (2012-2014) with R. Hinson (LSU AgCenter).
- “Louisiana Direct: Development of Coastal Seafood Marketing Networks” – Gulf States Marine Fisheries Commission, Oil Disaster Recovery Program Direct Marketing Outreach Fund, \$559,141 (2011-2014) with R. Caffey, T. Hymel and J. Bell (LSU AgCenter).
- “A Pilot Project to Study the Barriers to Establishing Linkages between Agricultural Producers and School Lunch Programs” – USDA-Agricultural Marketing Service (AMS) \$30,532 (2011) with P. Hodson, B. McGhee, M. Armentor, C. Stephens, A. Gaudet and T. Bui (LSU AgCenter).
- “Louisiana Flood Recovery Project” – USDA-NIFA, Smith-Lever Special Needs Grant for Flood Recovery \$118,549 (2011-2012) with B. Fletcher, R. White, J. Tucker, M. Wolcott and D. Hurlbert (LSU AgCenter).
- “Louisiana MarketMaker Initiative” – Louisiana Recovery Authority (LRA) \$125,000 (2010-2012) with R. Hinson (LSU AgCenter).
- Travel Support for Trade Adjustment Assistance (TAA) Annual Meeting at Southern Outlook Conference – Southern Region Risk Management Education Center (Southern Region RME Center), \$2,556 (2007) with K. Guidry (LSU AgCenter).
- “Enterprise Budgets for Container-grown Woody Ornamental Plants, Climatic Zones 8 and 9” - USDA-CSREES, Southern Center for Risk Management Education, Texas Cooperative Extension \$39,900 (2006) with R. Hinson and A. Owings (LSU AgCenter), D. Fields, J. Eakes, and K. Tilt (Auburn University), R. Rainey (University of Arkansas), J. Block, K. Hood, and R. Harkess (Mississippi State University), C. Garland (University of Tennessee).
- “Risk Management Training for Absentee Landowner Issues” – USDA-CSREES, Southern Center for Risk Management Education, Texas Cooperative Extension \$45,002 over one-year period (2005) with K. Guidry (LSU AgCenter), Greg Ibendahl, John Anderson, and Charlie Forest (Mississippi State University) and Tony Windham (University of Arkansas).

- “Louisiana Agricultural Risk Management Initiative” – USDA-CSREES, Southern Center for Risk Management Education, Texas Cooperative Extension \$30,000 (2004-2006) with G. Giesler, K. Guidry, L. Johnson, K. Paxton, M. Salassi, K. Wegenhoft (LSU AgCenter).

Submitted Extension Support/Grant Activities

- “Louisiana Beginning Farmer Rancher Training Program” – USDA-NIFA AFRI: Beginning Farmer and Ranger Program, \$493,040 (2015-2018) over three years with C. Motsenbocker and J. Westra (LSU AgCenter).

Unfunded Extension Support/Grant Activities

- “Reviving the New Orleans French Market into a Farmer’s Market and Food Hub” – USDA-Agricultural Marketing Service (AMS), \$99,998 (2011-2012) with P. Hodson, R. Hinson (LSU AgCenter), New Orleans French Market Corps, Culinary Strategies, LLC and Louisiana Department of Agriculture.
- “Implementation support for MarketMaker – a direct marketing tool for Louisiana seafood and specialty crops” – USDA-Rural Development, Rural Business Enterprise Grant (RBEG), \$184,998 (2011) with R. Hinson (LSU AgCenter). “Risk and Benefits in Livestock and Poultry Transition from Commodity to Direct Marketing Approaches” – USDA-CSREES, Southern Risk Management Education Center, University of Arkansas \$49,942 (2011) with R. Pruitt (LSU AgCenter).
- “Perennial Grass Bioenergy Systems-CAP (PGBS-CAP): Achieving sustainable bioenergy systems for the Central, South Central and Southeast regions using perennial grasses” – USDA-NIFA AFRI Sustainable Bioenergy, \$45,000,000 (2011-2016) with S. Long, S. Moose and others (University of Illinois), J. Westra, J. Beasley and C. Kimbeng (LSU AgCenter), B. Baldwin and Ken Hood (Mississippi State University), R. Kantety (Alabama A&M University), D. Field (Auburn University), S. Isaacs and D. Williams (University of Kentucky), N. Lapitan (Colorado State University), R. Gaussoin (University of Nebraska) and D. Tiessen (University of Georgia).
- “Equine Enterprise Development and Management of Risk in Louisiana” – USDA-CSREES, Southern Center for Risk Management Education, University of Arkansas \$31,240 (2009-2010) with R. Pruitt (LSU AgCenter).
- “Farm Adjustments to Environmental, Market, and Policy Shocks” - USDA-CSREES Smith-Level Special Needs \$40,000 (2003) with K. Guidry, G. Giesler, E. Johnson, and K. Wegenhoft (LSU AgCenter).

Invited or Principal Oral Presentations – Extension

- Westra, J. “State of Louisiana Agriculture in 2014.” Invited Address to the Press Club

of Baton Rouge, Baton Rouge LA, April 2015.

- Westra, J. "State of Louisiana Agriculture in 2013." Invited Address to the Press Club of Baton Rouge, Baton Rouge LA, April 2014.
- Westra, J. "Value of Agriculture to Louisiana's Economy." Address to the LSU College of Agriculture Honors College Students, Baton Rouge LA, January 2014.
- Westra, J. "State of Louisiana Agriculture in 2012." Invited Address to the Press Club of Baton Rouge, Baton Rouge LA, April 2013.
- Westra, J. "Value of Agriculture to Louisiana's Economy." Address to the LSU College of Agriculture Honors College Students, Baton Rouge LA, November 2012.
- Westra, J. "State of Louisiana Agriculture in 2011." Invited Address to the Press Club of Baton Rouge, Baton Rouge LA, March 2012.
- Westra, J. "Protecting Farmland in the Metro Baton Rouge Area: Options and Opportunities." Address at Farmland Conservation and Preservation in Louisiana, Baton Rouge LA, January 2012.
- Westra, J. and M. Fannin "Value of Louisiana Agriculture and Value Added to Economy." Address to the LSU College of Agriculture Honors College Students, Baton Rouge LA, September 2011.
- Westra, J. "Louisiana MarketMaker Program and Direct Marketing in Louisiana." Address to the Louisiana Young Ag Producers Program Summer Institute, Baton Rouge LA, July 2011.
- Westra, J. "State of Louisiana Agriculture in 2012." Invited Address to the Press Club of Baton Rouge, Baton Rouge LA, March 2011.
- Westra, J. "Louisiana MarketMaker Program and Local Food Systems." Keynote address at Sustainable Local Food Roundtable, Louisiana Sustainable Agriculture Research and Education, Port Allen LA, March 2011.
- Westra, J. "Louisiana MarketMaker Program: Linking Agricultural and Seafood Markets." Keynote address at Annual Meeting of the Louisiana Council of Farmer Cooperatives, Lafayette LA, February 2011.
- Westra, J. "Response to Gulf Seafood Marketing Crisis with Louisiana MarketMaker," at an Organized Symposium on the Gulf Oil Spill, at the Southern Agricultural Economics Association, Annual Conference, Corpus Christi TX, February 2011.
- Westra, J. and M. Fannin "Economic Impacts of Louisiana Agriculture: Summary of

Valuation Methods and Estimates.” Invited presentation at LSU AgCenter Agriculture Leadership Program, LSU AgCenter, Baton Rouge LA, October 2010.

- Westra, J. “An Introduction to the Louisiana MarketMaker Program and Overview of Registration for Producers.” Invited presentation at Louisiana Small Farmer Agricultural Leadership Institute, Southern University AgCenter, Baton Rouge LA, October 2010.
- Westra, J. “An Introduction and Overview of the Louisiana MarketMaker Program.” Invited presentation at Louisiana Sustainable Local Food Policy Council, Quarterly Meeting, Baton Rouge LA, September 2010.
- Westra, J. “Highlights of the State of Louisiana Agriculture from 2009 Summary of Louisiana Agriculture.” Invited presentation at Baton Rouge Press Club, Baton Rouge LA, March 2010.
- Westra, J. and K. Guidry. “The 2007 Farm Bill: Louisiana Producer Preferences.” Invited presentation at Louisiana State University Agricultural Center, 2007 Agricultural Outlook Conference, Baton Rouge LA, January 2007.

Extension Training and Workshops – Extension Agent Training

- “Louisiana MarketReady Program: Introduction and Overview.” Technical training delivered to approximately 10 county agents and state specialists, April 2015.
- “FSA Borrower Training.” USDA-FSA required technical training modules for producers borrowing from USDA-FSA, recorded for all commercial producers in Louisiana statewide. Video recorded for delivery in future years to producers. April - August 2014.
- “FSA Borrower Training.” USDA-FSA required technical training modules for producers borrowing from USDA-FSA, delivered to approximately 25 commercial producers in Louisiana statewide. Video recorded for delivery in future years to producers. January - February 2012.
- “Louisiana MarketMaker Program: Overview of the Program and Directions for Using Effectively.” Trade Adjustment Assistance (TAA) technical training module, delivered to approximately 2,500 commercial fishermen and shrimpers in Louisiana statewide, November 2010 – February 2011.
- “Louisiana MarketMaker Program: Introduction and Overview.” Technical training delivered to approximately 150 county agents, state specialists and state agency professional staff at five distance-delivery sessions statewide, June-July 2010.
- Coordinator of Agent Specialization Training in Agricultural Economics, LSU AgCenter, 2002 – present.

Oral Presentations and Producer Training – Extension

- Westra, J., P. Hodson and T. Cooper “Louisiana MarketReady Producer Training Program.” Hammond LA, June 2015.
- Westra, J., P. Hodson and T. Cooper “Louisiana MarketReady Producer Training Program.” New Orleans LA, June 2015.
- Westra, J. “Louisiana MarketMaker: Opportunities for Grass-fed Beef Producers.” Louisiana Forage and Grassland Council, Annual Conference, Alexandria LA, November 2013.
- Westra, J. “Louisiana MarketMaker – Connecting Farmers to Markets.” Louisiana Food Access Summit, Baton Rouge LA, November 2012.
- Westra, J. “Louisiana MarketMaker Program: Overview Registration.” Louisiana Food Processors, Annual Conference, Baton Rouge LA, March 2012.
- Westra, J., R. Hinson and P. Hodson “Louisiana MarketMaker Program: Overview Registration.” Louisiana Fisheries Assistance Center Meeting, Belle Chasse LA, March 2012.
- Westra, J. “Louisiana MarketMaker Program: Overview and Update on Recent Activities.” LCES Sea Grant Watershed Agents, Quarterly Meeting, Baton Rouge LA, March 2012.
- Westra, J. “FSA Borrower Training: Inventory.” USDA-FSA Borrower Training Workshop, Baton Rouge LA, January 2012.
- Westra, J. “FSA Borrower Training: Record Keeping.” USDA-FSA Borrower Training Workshop, Baton Rouge LA, January 2012.
- Westra, J. “FSA Borrower Training: Family Living and Goals.” USDA-FSA Borrower Training Workshop, Baton Rouge LA, January 2012.
- Westra, J. “Louisiana MarketMaker Program: An Overview and Introduction to Registration.” Trade Adjustment Assistance training program for shrimp and aquaculture producers, various locations LA, November 2010 - February 2011.
- Westra, J. “Louisiana MarketMaker Program: Overview.” Louisiana Sweet Potato Producers Association, Annual Meeting, Mansura LA, January 2011.
- Westra, J. “Louisiana MarketMaker Program: Overview and Update on Recent Activities.” LCES Watershed Agents, Quarterly Meeting, Baton Rouge LA, September 2010.

- Westra, J. "Ecosystem Services and Agricultural Lands." A Conversation about Working Wetlands. Louisiana Rice Research Station, Rayne LA, January 2009.
- Westra, J. "Floriculture and Nursery Crop Situation and Outlook." Southern Region Agricultural Outlook Conference. Atlanta GA, September 2007.
- Westra, J., J. Huner and R. Caffey. "Ecological and Economic Benefits and Costs of Louisiana's Working Wetlands." Louisiana Association of Professional Biologists Fall Symposium – Recent Natural Resources Research in Louisiana: Ecological Impacts of Natural Resource Management. Lafayette LA, August 2007.
- Westra, J. "Methodology and Data for Fisheries Information in the LSU Ag Summary." LCES Watershed Agents Quarterly Meeting, Baton Rouge LA, August 2007.
- Broussard, W. and J. Westra. "Agricultural Policy, Land Management, and Water Quality in the Mississippi River Basin: An Economic Temporal and Spatial Analysis." Challenges of Natural Resource Economics and Policy: 2nd National Forum on Socioeconomic Research in Coastal Systems, New Orleans LA, May 2007.
- Boody, G., C. van Schaik, J. Westra and P. Gowda. "Multiple Benefits and Diversified Agriculture." Sandusky River Partnership, Sandusky OH, May 2007.
- Westra, J., R. Johansson and M. Livingston. "Asian Soybean Rust: Simulated Economic and Environmental Impacts Nationally and the Southern U.S." Southern Natural Resource Economics Committee (SERA 30), Annual Meeting, Auburn AL, May 2006.
- Westra, J. and K. Guidry. "Economic Considerations: Management and Marketing." Soybean Rust Risk Management Workshop, Winnsboro LA, March 2006.
- Westra, J. "Policies for Reducing Nitrogen Leakiness in Agriculture: Potential Economic and Environmental Effects on Gulf of Mexico Hypoxia." Coastal Zone 05, National Oceanic and Atmospheric Administration, New Orleans LA, July 2005.
- Westra, J. "The Conservation Security Program: Economic and Environmental Benefits." Southern Natural Resource Economics Committee (SERA 30), Annual Meeting, Tallahassee FL, May 2005.
- Westra, J. "Calculating the Costs of BMPs." LCES Watershed Agents Quarterly Meeting, Louisiana State University AgCenter, Baton Rouge LA, September 2004.
- Westra, J. and S. Greenhalgh. "Potential Economic, Agricultural and Fisheries Impacts from Policies for Reducing Gulf Hypoxia." Challenges of Socioeconomic Research in Coastal Systems: Valuation, Analysis, and Policy Development,

Conference of the Center for Natural Resource Economics and Policy, Baton Rouge LA, May 2004.

- Zimmerman, J., B. Vondracek and J. Westra. "Setting an Effective TMDL: Sediment Loading and Effects of Suspended Sediment on Fish." American Fisheries Society, Annual Meeting, Quebec PQ Canada, August 2003.
- Tootle, D., R. Hinson and J. Westra. "Brave New Communities: Biotechnology as a Rural Development Strategy?" Rural Sociology Society, Annual Meeting, Montreal PQ Canada, July 2003.
- Westra, J. "Opportunities in Agriculture to Diversify?" Abbeville LA, January 2003.

Poster Presentations – Extension

- Westra, J., R. Hinson, P. Hodson and D. Hatch. "Louisiana MarketMaker Program." Gulf Alive, New Orleans LA, April 2011.
- Westra, J., B. Clark and R. Hinson. "Louisiana MarketMaker Program." Sweet Potato Research Station Field Days, Chase LA, August 2010.
- Clark, B., J. Westra and R. Hinson. "Louisiana MarketMaker Program." Rice Research Station Field Days, Crowley LA, July 2010.
- Westra, J., R. Caffey and J. Huner. "Economic Value of Ecosystem Benefits from Crawfish Pond Habitat in Coastal Louisiana." Coastal Zone 2009 (CZ 09), National Oceanic and Atmospheric Administration, Boston MA, July 2009.
- Caffey, R., J. Westra and C. Aust. "Examining the Efficiency of Coastal Restoration in Louisiana." Coastal Zone 2009 (CZ 09), National Oceanic and Atmospheric Administration, Boston MA, July 2009.
- Caffey, R., R. Bourriaque and J. Westra. "Spatial Economics of Wetland Mitigation Banking." Coastal Zone 2009 (CZ 09), National Oceanic and Atmospheric Administration, Boston MA, July 2009.
- Westra, J., J. Huner and R. Caffey. "Ecological and Economic Benefits and Costs of Louisiana's Working Wetlands." Rice Research Station Field Days, Crowley LA, July 2008.
- Ibendahl, G., K. Guidry, J. Westra and R. Hogan. "An Analysis of Why a Share Lease or Cash Lease is used in Farmland Rental Arrangements." Southern Agricultural Economics Association, Annual Conference, Dallas TX, February 2008.
- Westra, J., J. Huner and R. Caffey. "Ecological and Economic Benefits and Costs of Louisiana's Working Wetlands." Louisiana Association of Professional Biologists,

Annual Meeting, Lafayette LA, October 2007.

- Chintawar, S. and J. Westra. "An Energy Cost Estimation of Sugar-Ethanol: A Comparative Analysis with Corn Ethanol Production in the United States." Challenges of Natural Resource Economics and Policy: 2nd National Forum on Socioeconomic Research in Coastal Systems, New Orleans LA, May 2007.
- Henderson, J., M. Dunn, J. Westra and K. Guidry. "Investigating the Potential of Fee-Based Recreational Cooperatives in the Lower Mississippi River Delta." 2006 Economic Assistantship Showcase, Louisiana State University, Baton Rouge LA, September 2006.
- Westra, J., J. Huner and R. Caffey. "Louisiana's Agricultural Wetlands as Waterbird Habitat: Potential Benefits and Costs." North American Duck Symposium and Workshop, 4th Annual Conference, Bismarck ND, August 2006.
- Henderson, J., M. Dunn, J. Fannin and J. Westra. "Landowner Recreational Entrepreneurial Cooperatives in the Lower Mississippi River Delta: A Feasibility Study." 2005 Economic Assistantship Showcase, Louisiana State University, Baton Rouge LA, September 2005.
- Westra, J., J. Huner and R. Caffey. "Working Lands Programs: Potential Economic and Potential Benefits of Agricultural Wetlands." Louisiana Association of Professional Biologists, Annual Conference, Lafayette LA, August 2005.
- Westra, J., R. Caffey and J. Huner. "Economic and Environmental Benefits to Waterbirds of Louisiana Agricultural Wetlands Habitat." Coastal Zone 05, National Oceanic and Atmospheric Administration, New Orleans LA, July 2005.
- Westra, J., J. Huner and R. Caffey. "Working Lands Programs: Potential Economic and Environmental Benefits of Agricultural Wetlands." Rice Research Station Field Days, Crowley LA, July 2005.
- Henderson, J., M. Dunn and J. Westra. "Landowner Recreational Entrepreneurial Cooperatives: An Economic Analysis." 2004 Economic Assistantship Showcase, Louisiana State University, Baton Rouge LA, September 2004.
- Westra, J., R. Caffey and J. Huner. "Economic and Environmental Implications of Potential Policies to Address Agricultural Wetlands Loss." Challenges of Socioeconomic Research in Coastal Systems: Valuation, Analysis, and Policy Development, Conference of the Center for Natural Resource Economics and Policy, Baton Rouge LA, May 2004.
- Henderson, J., M. Dunn and J. Westra. "Landowner Recreational Entrepreneurial Cooperatives: An Economic Analysis." Challenges of Socioeconomic Research in Coastal Systems: Valuation, Analysis, and Policy Development, Conference of the

Center for Natural Resource Economics and Policy, Baton Rouge LA, May 2004.

- Westra, J., R. Caffey and J. Huner. "The Economic and Environmental Significance of Louisiana's Agricultural Wetlands as Waterbird Habitat: Status and Challenges." International Association of Astacology, Annual Symposium, London England, April 2004.
- Huner, J., J. Westra and R. Caffey. "The Economic and Environmental Significance of Louisiana's Agricultural Wetlands as Waterbird Habitat: Status and Challenges." Society of Wetlands Scientists, Annual Meeting, New Orleans LA, June 2003.

Leadership in Professional Organizations/Committees

- Officer (Chair, Vice-Chair, Secretary: 2004 - 2007) – Southern Extension Farm Management Committee
- Member, Board of Directors (2005 – present) – Center for Natural Resource Economics and Policy (CNREP), LSU AgCenter

Participation in Professional Organizations/Committees

- Southern Agricultural Economics Association (2002 – present)
- Southern Extension Farm Management and Policy Committees (2002 – present)
- Southern Resource and Environmental Economics Association (2002 – 2012)
- Delta States Farm Management SERA 35 (2002 – present)

In-service Training, Sabbaticals, Professional Improvement

Extension Awards and Recognition

- Best Poster Presentation – Westra, J., R. Hinson, B. Clark and T. Cooper. "Louisiana's Seafood Industry Recovery: Potential Economic Impacts of MarketMaker." Southern Agricultural Economics Association, Annual Conference, Corpus Christi TX, February 2011.
- USDA-NIFA Partnership Award, Multistate Effort – J. Westra and R. Hinson (co-Project Leaders in Louisiana) as part of the National Food MarketMaker Program, "for giving consumers better access to fresh, local foods and farmers more opportunities for profitability through successful, multistate partnership." USDA – National Institute for Food and Agriculture, Washington DC, October 2010.
- Best Poster Presentation (3rd place) – Westra, J.V., R.H. Caffey and J.V. Huner. "Working Lands Programs: Potential Tools for Conserving Agricultural Wetlands." Southern Agricultural Economics Association, Annual Conference, Little Rock AR, February 2005.

Multi-institution, Agency, and State Collaboration for Extension

Much of my extension efforts involve multiple institutions, agencies or states, including:

- **Risk Management Education:** Two projects related to risk management education involve multiple Southern states and agencies (including USDA-NASS) – Container-grown Woody Ornamental Plants and Absentee Landowner Issues.
- **Natural Resource Conservation – Agricultural Policy Survey:** Prior to the 2007 Farm Bill, LSU AgCenter economists collaborated with peers across the country and USDA-NASS in developing a questionnaire administered to Louisiana producer to survey attitudes about proposed changes to farm policy.
- **Natural Resource Conservation:** In collaboration with economist within LSU AgCenter and USDA-NRCS, as well as wildlife biologist at USDA-NRCS and USFWS, estimated potential costs and benefits of rice-crawfish production fields, flooded in non-productive seasons, to provide waterfowl/waterbird habitat in south Louisiana. Analysis, conducted prior to a nation-wide emergency program USDA-NRCS implemented with technical and financial assistance to landowners who by flooding rice-crawfish fields provide waterfowl habitat in the Gulf of Mexico region.

Instructional Activities

Teaching History – Courses Taught

- **AGEC 9000 Thesis Research** (Louisiana State University, Baton Rouge LA) Guided research project designed by instructor and Ph.D. student on various agricultural economics topics. 2002 - 2015. Students (total): 13.
- **AGEC 8000 Thesis Research** (Louisiana State University, Baton Rouge LA) Guided research project designed by instructor and M.S. student on various agricultural economics topics. 2002 - 2015. Students (total): 16.
- **AGEC 7710 Special Topics – Graduate Seminar** (Louisiana State University, Baton Rouge LA) Directed seminar for M.S. and Ph.D. students on various research topics of agricultural economics. 2009 - 2010. Students (total): 30.
- **AGEC 7703 Independent Study in Agricultural Economics** (Louisiana State University, Baton Rouge LA) Independent studies designed by instructor and student on various agricultural economics topics, including mathematical economics. 2002 - 2015. Students (total): 15.
- **AGEC 4403 Agricultural Finance** (Louisiana State University, Baton Rouge LA) Principles of financial management with applications in agriculture and agribusiness and examples of the tools of financial analysis useful in planning and business management. Fall 2015 Enrollment: 20; Fall 2014 Enrollment: 27; Fall 2005 Enrollment: 39.
- **ECON 121 Principles of Economics** (St. Olaf College, Northfield MN) Introduction to the basic economic problem all societies face (coordinating their wants and desires) and a discussion of the ways people have attempted to solve this problem. Fall 2001 Enrollment: Section 1 – 28, Section 2 – 28.
- **ES 232 Environmental Policy and Regulation** (St. Olaf College, Northfield MN) Survey of environmental problems and policy mechanisms designed to address them; case-study analysis of specific environmental problems of local concern to students. Fall 2001 Enrollment: 20.
- **ECON 252 Principles of Microeconomics** (University of St. Thomas, St. Paul MN) Introduction to the theory of the firm, consumer or household behavior, and the economic problem of coordinating the wants of individuals within a society. Fall 1998 Enrollment: 30.
- **APEC 3002 Applied Microeconomics: Managerial Economics** (Computer Lab Section at the University of Minnesota, St. Paul MN): Application of microeconomic theory to agribusiness management problems; computer-based exercises of course material. Spring 1998 Enrollment: 24.

Participation in Professional Meetings, Symposia, Workshops on Teaching

- Team-based learning: A Transformative Use of Small Groups, (A Teaching/Learning Workshop at the American Agricultural Economics Association annual meeting) Montreal, Quebec, Canada, 2003.
- Outreach Scholarship 2002 Conference: Catalyst for Change, Columbus, OH, 2002.
- Preparing Future Faculty (PFF) – two-course sequence of active learning and methods for evaluating teacher effectiveness, University of Minnesota, Saint Paul, MN, 1998.
- Active Learning: Engaging Adults in Economic and Management Education (A Teaching/Learning Workshop at the American Agricultural Economics Association annual meeting), Salt Lake City UT, 1998.

Graduate Committees

- Current Major Professor
 - Doctoral students with dissertation – 1
 - Master's students with thesis – 0
- Current Committee Member
 - Doctoral students with dissertation – 8
 - Master's students with thesis – 7
- Graduated Students - Major Professor
 - Doctoral students with dissertation – 2
 - Master's students with thesis – 13
- Graduated Students - Committee Member
 - Doctoral students with dissertation – 25
 - Master's students with thesis – 28

Undergraduate Activities

- Advising 10-15 undergraduate majors (2013 – present)

Service Activities

College or University Service

- LSU AgCenter Faculty Advisory Council – secretary/recorder and member (2011 – 2013)
- LSU AgCenter Faculty Advisory Council, Executive Committee – member (2012 – 2013)
- LSU Faculty Senate, Committee on Benefits – member (2011 – present)
- LSU Sustainability Curriculum in Education Subcommittee (SCurrE) – member (2011 –2013)
- **LSU Graduate School – Dean’s Representative on Doctoral Examining Committees (2002-2013)**
 - Department of Finance
 - Department of Geography
 - Department of Sociology
 - School of Mass Communication
 - School of Renewable Natural Resources
 - College of Engineering

University Center Service – Center for Natural Resource Economics and Policy

- Board of Directors, member (2003 – present)

Departmental Service – Agricultural Economics and Agribusiness

- Graduate Committee, member (2014 – present)
- Seminar Committee, chair (2002 – present)
- Undergraduate and Graduate Student Scholarship Committee, member (2009 – 2011)
- Undergraduate Agribusiness Club, advisor (2009 – 2011)
- Graduate Examining Committee, member (2002 – 2006)
- Graduate Student Orientation Workshop, Production Economics instructor (2003 – 2005)

Professional service

Competitive Grant Proposals – Reviewer

- U.S. Department of Agriculture – National Institute for Food and Agriculture (NIFA), Farm Business Management and Benchmarking Program (FBMB), Panel Reviewer, 2011-2014.
- U.S. Department of Agriculture – Cooperative State Research, Education, and Extension Service (CSREES), National Research Initiative (NRI) Program, Panel Reviewer, Agricultural Prosperity of Small and Medium Sized Farms program area,

2008.

- U.S. Department of Agriculture – Cooperative State Research, Education, and Extension Service (CSREES), National Research Initiative (NRI) Program, External Reviewer, various program areas, 2005-2008.
- U.S. Department of Agriculture – Cooperative State Research, Education, and Extension Service (CSREES), Small Business Innovation Research (SBIR) Program, Phase I and II grants, 2003-2010.
- U.S. Department of Agriculture – Economic Research Service (ERS), Program on Economics of Invasive Species Management (PREISM) grants, Peer Reviewer, 2005-2008.
- Southern Region Sustainable Agriculture Research and Education (SARE), 2008-2015.
- North Central Region Sustainable Agriculture Research and Education (SARE), 2000.

Contributions to Refereed Publications – Associate Editor

- *Journal of Soil and Water Conservation*, Soil and Water Conservation Society, 2009 – present.

Contributions to Refereed Publications – Reviewer/Referee

- *African Journal of Agricultural Research*
- *Applied Economic Perspectives & Policy*
- *ASCE Journal of Hydrological Engineering*
- *Choices*
- *Ecological Economics*
- *Environmental Management*
- *Frontiers in Ecology and the Environment*
- *Hort. Technology*
- *Journal of Agricultural and Applied Economics*
- *Journal of American Water Resources Association*
- *Journal of Soil and Water Conservation*
- *North American Journal of Fisheries Management*
- *Review of Agricultural Economics*
- *Southeastern Naturalist*
- *Water Resources Research*
- *Weed Research*

Contributions to Scientific Associations – Reviewer

- Selected papers, International Water Association (IWA) Conference 2010
- Selected papers and posters for annual meeting, American Agricultural Economics Association 2003 - present
- Selected papers for annual meeting, Southern Agricultural Economics Association

2003 – present

- Selected papers for special workshop on invasive species at annual meeting, Northeast Agricultural and Resource Economics Association 2005 - 2008
- Selected papers for Lower Mississippi River Symposium Review of the State of the Science, Gulf of Mexico Hypoxia Action Plan, Lower Mississippi River Sub-basin Committee, 2006

Contributions to Scientific Associations - Moderator

- Selected papers sessions, CNREP 2013: Challenges of Natural Resource Economics and Policy.
- Selected papers sessions, Challenges of Natural Resource Economics and Policy (CNREP 2010): 3rd National Forum on Socioeconomic Research in Coastal Systems
- Selected papers sessions, Challenges of Natural Resource Economics and Policy: 2nd National Forum on Socioeconomic Research in Coastal Systems 2007
- Selected papers sessions, Annual Meeting, American Agricultural Economics Association 2003 - present
- Selected papers sessions, Annual Meeting, Southern Agricultural Economics Association 2003 – present
- Selected papers sessions, Spring Conference, American Water Resources Association 2003

Contributions to Scientific Associations - Judge

- Selection Committee, Outstanding Article, Journal of Soil and Water Conservation (JSWC), 2013-2014.
- Selection Committee, Outstanding Poster Competition, Annual Meeting, Agricultural and Applied Economics Association (AAEA) 2006, 2009

Officer in Economic Organizations

- Officer (Past-President, President, Vice-President, and Secretary: 2005 - 2009) – Southern Natural Resource Economics Committee (SERA 30)