

Ag Econ

U.S. Department of Agriculture <b>Accomplishments Report AD-421</b> U.S. Dept. of Agriculture, State Agricultural Experiment Stations and Other Institutions			Date (Month, Day, Year)  03/22/2012	
1. Accession 0211069	Agency Identification No. 2. CSREES 3. LA.B	5. Work Unit/Project No. LAB93858	6. Status Annual Report	
7. Title Optimal Economic Decision Making for Producers in Animal Agricultural Industries				
12. Investigator Name(s) (Last Name and Initials) Gillespie, J. M.				
20. Termination Date 07/31/2013		40. Period Covered (mo/da/year): 01/01/2011 TO 12/31/2011		
Outputs: Project results were disseminated in the form of (1) publications: four peer-reviewed journal articles, five peer-reviewed abstracts, and seven papers in other outlets; and (2) presentations: eight presentations at professional meetings and one presentation to a clientele group. Some specific outputs include cost and returns estimates for Louisiana livestock and aquaculture production, estimates of drivers of increased crawfish production costs, determination of drivers of crawfish producer marketing decisions, and determination of economies of scale and efficiency drivers in the U.S. dairy industry.				
Outcomes/Impacts: For the crawfish cost of production study, fuel and fertilizer inputs have been the major drivers of increased costs of crawfish production over the past 20 years, with the implication that these inputs have also driven the price of crawfish higher, deeming it less competitive with crawfish production in China. Research on Louisiana crawfish farmer adoption of alternative marketing systems and best management practices showed the impact of farm type on adoption, with implications for extension personnel in targeting educational systems to enhance crawfish farmer revenues, as well as inform them of government programs, such as EQIP, that can assist them with adoption costs. Research on the impact of off-farm employment and reasons for farming on farm enterprise selection showed a significant positive relationship between off-farm employment, farming for reasons other than profit, and the enterprise selection. These results enhance research and extension personnel understanding of the dynamics of enterprise selection, providing greater insight into why encouraging technology transfer can be challenging for some enterprises more than others. Further research on rotational grazing in cow-calf production showed more favorable profitability results than previously found in this study. Continued research results on dairy competitiveness showed the strong relationship between competitiveness and farm size.				
Publications: Nyaupane, Narayan, and Jeffrey Gillespie. Factors Influencing Producers' Marketing Decisions in the Louisiana Crawfish Industry. J. of Food Distribution Research 42,2(July 2011):1-11. Gillespie, Jeffrey, and Ashok Mishra. Off-farm Employment and Reasons for Entering Farming as Determinants of Production Enterprise Selection in U.S. Agriculture. Australian J. of Agricultural and Resource Economics 55,3(July 2011):411-428. Nyaupane, Narayan, and Jeffrey Gillespie. Louisiana Crawfish Farmer Adoption of Best Management Practices. J. of Soil and Water Conservation 66,1(January-February 2011):61-70. McCormick, Mike, Shannon Forbes, Kun Jun Han, David Blouin, Vinicius Moreira, and Jeffrey Gillespie. Ricebran or Soyhull Supplementation of Holstein Steers Grazing Oat-Ryegrass Pastures. Southeast Research Station Field Day Summaries, 2011. Louisiana State University Agricultural Center, Southeast Research Station, Franklinton, 2011. Gillespie, Jeffrey, Guillermo Scaglia, Holly Boland, and Wayne Wyatt. The Economics of Supplementing Beef Stocker Calves Grazing Ryegrass. Louisiana State University Agricultural Center 2011 Beef Cattle Research Report 36(2011):40-43. Gillespie, Jeffrey, Wayne Wyatt, Brad Venuto, David Blouin, Robert Boucher, Weldon Nipper, and Berdikul Qushim. Choosing a Grazing System in the Gulf Coast Region: The Roles of Labor and Profitability. Louisiana State University Agricultural Center 2011 Beef Cattle Research Report 36(2011):25-28.				

Wyatt, Wayne, Jeffrey Gillespie, Brad Venuto, and David Blouin. Effects of Year-round Stocking Rates and Stocking Methods on Cow-calf Production (Phase 2): Grazing Parameters. Louisiana State University Agricultural Center 2011 Beef Cattle Research Report 36(2011):21-24.

Boucher, Robert, and Jeffrey Gillespie. Projected Costs and Returns for Crawfish Production in Louisiana, 2011. A.E.A. Information Series No. 277, Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center, February 2011.

Boucher, Robert, Jeffrey Gillespie, and Charles Hutchison. Projected Costs and Returns for Dairy and Associated Forage Crop Production in Louisiana, 2011. A.E.A. Information Series No. 275, Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center, February 2011.

Boucher, Robert, and Jeffrey Gillespie. Projected Costs and Returns for Beef Cattle and Associated Forage Crop Production in Louisiana, 2011. A.E.A. Information Series No. 274, Louisiana Agricultural Experiment Station, Louisiana State University Agricultural Center, February 2011.

Gillespie, Jeffrey, Wayne Wyatt, David Blouin, Weldon Nipper, Robert Boucher, and Berdikul Qushim. Stocking Rates of Cattle under Rotational Grazing: The Influence on Farm Profitability. (Abstract) J. Agricultural and Applied Economics 43,3 (August 2011):459.

D'Antoni, Jeremy, Ashok Mishra, and Jeffrey Gillespie. Homogeneity of Farm Labor: A Dual Approach. (Abstract) J. Agricultural and Applied Economics 43,3(August 2011):466.

Khanal, Aditya, and Jeffrey Gillespie. Dairy Breeding Technologies: Adoption and Profitability. (Abstract) J. of Agricultural and Applied Economics 43,3(August 2011):458.

Nehring, Richard, Johannes Sauer, Jeffrey Gillespie, and Charlie Hallahan. Intensive versus Extensive Dairy Production Systems in the US and the EU: Determining the Competitive Edge. (Abstract) J. of Agricultural and Applied Economics 43,3 (August 2011):458.

Participants:

J.M. Gillespie (PI), LSU AgCenter.

Target Audiences:

Louisiana animal and aquaculture industries.

Project Modifications:

Nothing significant to report during this reporting period.

Approved (Signature)	Title	Date
		