


U.S. Department of Agriculture Accomplishments Report AD-421 U.S. Dept. of Agriculture, State Agricultural Experiment Stations and Other Institutions			Date (Month, Day, Year) 01/18/2013
1. Accession 0212779	Agency Identification No. 2. CSREES 3. LAB	5. Work Unit/Project No. LAB93868	6. Status Final Report
7. Title Nutritional and Management Abatement Strategies for Improvement of Poultry Air and Water Quality			
12. Investigator Name(s) (Last Name and Initials) Lavergne, T.; Stephens, M.			
20. Termination Date 09/30/2012		40. Period Covered (mo/da/year): 10/01/2007 TO 09/30/2012	
Outputs: Information obtained from a survey on the environmental issues facing the poultry industry (and other animal industries) was published in Louisiana Agriculture. Information on in-house pasteurization of broiler litter has been presented to and shared with scientific colleagues and stakeholders in the commercial poultry industry. An in-house pasteurization of broiler litter educational video was released. A broiler growth trial was conducted to evaluate new sources of bedding for commercial production facilities.			
Outcomes/Impacts: The use of in-house pasteurization of broiler litter has been beneficial to producers as they are able to re-use their litter for subsequent flocks. This is important when there is a lack of availability of acceptable bedding in the United States, and/or allows producers to clean out their broiler houses only at times when the litter is needed for fertilizer or another use. Also, this pasteurization method can be used in biosecurity programs since pathogens are greatly reduced during the process. The Natural Resource Conservation Service in Louisiana has developed an Environmental Quality Incentives Program using the data and information obtained from our field trials and publications. Two growth trials were conducted to evaluate new sources of bedding for commercial broiler production. Growth performance and litter characteristics were evaluated. The new bedding sources may improve growth rate and reduce the amount of ammonium, nitrogen, and phosphorus that accumulate in the litter.			
Publications: Lavergne, T.A., S.M. DeRouen, G.M. Hay, and M.F. Burnett. Issues Facing Animal Agriculture in Louisiana. LSU AgCenter Louisiana Agriculture Summer 2012, Vol. 55, No. 3. Lavergne, T.A. 2012. Educational Video: In-house pasteurization of broiler litter. World Poultry Congress. Salvador, Brazil. Lavergne, T.A., and W. Carney. 2012. In-house pasteurization of broiler litter. LSU AgCenter. http://www.lsuagcenter.com/en/crops_livestock/livestock/poultry/Environmental+Concerns/InHouse-Pasteurization-of-Broiler-Litter.htm			
Participants: T. Levergne (PI), M. Stephens, LSU AgCenter.			
Target Audiences: The commercial broiler producing industry is the target audience.			
Project Modifications:			



Not relevant to this project.

Approved (Signature)	Title	Date
		1-25-2013