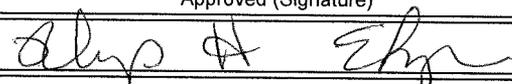


Animal

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) 03/22/2012
1. Accession 0224747	Agency Identification No. 2. NIFA 3. LA.B	5. Work Unit/Project No. LAB94064	6. Status Annual Report
7. Title Prestorage Incubation Effects on the Hatchability of Broiler Breeder Eggs			
12. Investigator Name(s) (Last Name and Initials) Ingram, D. R.			
20. Termination Date 12/31/2012		40. Period Covered (mo/da/year): 01/01/2011 TO 12/31/2011	
Outputs: The results of the trials were presented to poultry scientists.			
Outcomes/Impacts: Five trials using a total of 9,000 eggs were conducted to compare the effects of pre-storage warming of two strains of end-of-lay (59-64 weeks of age) broiler breeders. Ross 708 and Cobb 700 were selected since they are the most commonly used strains in Louisiana. Eggs were warmed for 0, 5, or 10 hours and then stored for three days. No beneficial effect was found when Cobb 700 eggs were used. However warming Ross 708 eggs for 10 hours prior to storage significantly increased fertile hatchability by 4%. Pre-storage warming also significantly reduced percent pips in eggs from the Ross 708 strain. There was no effect on early, mid, or late mortality when considering either strain. These data indicate that different broiler breeder strains, at least during the end-of-lay period, react differently to pre-storage warming. The significant increase in hatchability found with the end-of-lay Ross 708 eggs could result in huge added revenue for commercial hatcheries, if these procedures were adopted.			
Publications: No Publications Reported			
Participants: Ingram, D. (PI), LSU AgCenter.			
Target Audiences: Commercial hatchery managers, broiler producers, primary breeder companies, and show bird hobbyists.			
Project Modifications: Nothing significant to report during this reporting period.			
Approved (Signature)		Title	Date
			3-23-12