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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) 03/20/2012		
1. Accession 0217601	Agency Identification No. 2. SAES 3. LA.B		5. Work Unit/Project No. LAB03971		6. Status Annual Report
7. Title Development of Cotton Weed Control Programs for Northeast Louisiana					
12. Investigator Name(s) (Last Name and Initials) Miller, D. K.					
20. Termination Date 12/31/2013			40. Period Covered (mo/da/year): 01/01/2011 TO 12/31/2011		
Outputs: The project generated three abstracts from poster displays at the 2011 Southern Weed Science Society and Beltwide Cotton Conferences. The results were used to refine weed control recommendation guidelines and were presented at regional production meetings.					
Outcomes/Impacts: Evaluation of crop tolerance to and herbicide efficacy on both glufosinate, and glyphosate, resistant cotton indicated good weed control on common weeds infesting cotton in Louisiana. Order of application or tank mixing of these products resulted in no negative effects on weed control or crop tolerance. Evaluation of the herbicide, Warrant, indicated poor residual control of grass and broadleaf weeds. Crop tolerance to Warrant was excellent in either glyphosate or glufosinate weed management systems. A preplant application of fomesafen resulted in good control of winter weeds and good residual early season weed control in glyphosate- and glufosinate- resistant cotton. Only minimal crop injury was noted early season, but yield was not affected. Comparison of transgenic and conventional cotton weed management systems indicated that the use of residual herbicides was necessary in the conventional system, but not transgenic systems when glyphosate or glufosinate are timely applied to actively growing weed seedlings.					
Publications: Stephenson, D. O., D. K. Miller, R. L. Landry, and M. S. Mathews. 2011. Influence of adjuvants when co-applied with saflufenacil and glyphosate on burndown weed control. Proc. South. Weed Sci. Soc. 64:249. Miller, D. K. and M. S. Mathews. 2011. Utility of Staple LX in Liberty Link cotton in Louisiana. 2011 Proc. Beltwide Cotton Conf., p. 1526. Miller, D. K. and M. S. Mathews. 2011. Utility of Pymax for preemergence weed control in Louisiana cotton. 2011 Proc. Beltwide Cotton Journal, p. 1526.					
Participants: D.K. Miller (PI), and M. Mathews, LSU AgCenter.					
Target Audiences: Target audiences for the project include cotton producers, agricultural consultants, and weed management professionals.					
Project Modifications: Nothing significant to report during this reporting period.					
Approved (Signature)		Title		Date	
					