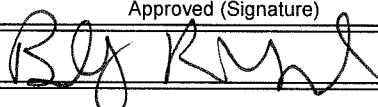


NE

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) 03/16/2012
1. Accession 0218549	Agency Identification No. 2. SAES 3. LA.B	5. Work Unit/Project No. LAB03989	6. Status Annual Report
7. Title Development of Soybean Weed Control Programs for Northeast Louisiana			
12. Investigator Name(s) (Last Name and Initials) Miller, D. K.			
20. Termination Date 05/31/2014		40. Period Covered (mo/da/year): 01/01/2011 TO 12/31/2011	
Outputs: The project generated four abstracts from poster displays and one oral presentation at the 2011 Southern Weed Science Society annual meeting. These results were used to refine weed control recommendations and were presented at regional soybean production meetings.			
Outcomes/Impacts: Increased rates of glufosinate herbicide in Liberty Link soybean allowed for excellent control of pigweed and grass species, which are troublesome weeds in a glufosinate-based weed control program. Application of reduced rates of, dicamba, the herbicide to the soil surface prior to planting soybean (to simulate a drift event and planting immediately once non-target symptoms appear) indicated that minor early season soybean injury may be evident. However, yield was not affected. Application of simulated drift rates of rice herbicides, Grasp, Regiment, Londax, and Permit, to STS soybean resulted in greatest injury and yield reduction from Regiment. Tolerance to all other herbicides was characterized as good to excellent.			
Publications: Bauerle, M. J., J. L. Griffin, D. O. Stephenson, D. K. Miller, and J. M. Boudreaux. 2011. Soybean growth response to dicamba simulated drift at vegetative and reproductive growth stages. Proc. South. Weed Sci. Soc. 64:51. 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., D. R. Lee, and M. S. Mathews. 2011. Weed control in soybean with Valor XLT, Gangster, and v-10233. Proc. South. Weed Sci. Soc. 64:254. Miller, D. K., D. R. Lee, and M. S. Mathews. 2011. Tolerance of STS soybean to reduced rate application of Grasp, Londax, Permit, and Regiment. Proc. South. Weed Sci. Soc. 64:255.			
Participants: D.K. Miller (PI), M. Mathews, LSU AgCenter.			
Target Audiences: Target audiences include crop producers, agricultural consultants, and weed management professionals.			
Project Modifications: Nothing significant to report during this reporting period.			
Approved (Signature) 		Title	Date