

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) 01/10/2013
1. Accession 0224568	Agency Identification No. 2. NIFA 3. LAB	5. Work Unit/Project No. LAB04089	6. Status Annual Report
7. Title Managing Insect Pests and Diseases in Multi-Use Landscapes of Bioenergy and Conventional Cropping Systems in the Gulf Coast			
12. Investigator Name(s) (Last Name and Initials) Reagan, T. E.			
20. Termination Date 02/14/2016		40. Period Covered (mo/da/year): 02/15/2012 TO 02/14/2013	
Outputs: Results of this project were reported in one peer-reviewed journal paper, one book chapter, two presentations at professional meetings and two presentations at field days.			
Outcomes/Impacts: A number of non-cultivated weedy grass species, including johnsongrass and vaseygrass, contribute to the field and regional abundance of stem borers. <i>D. saccharalis</i> average densities in non-crop habitats remained below 1 immature per m ² , but <i>E. loftini</i> average densities ranged from 0.3 to 5.7 immatures per m ² throughout a 2-yr period. A survey compared the incidence of Sugarcane yellow leaf virus (ScYLV) in mixed cropping and monoculture systems but failed to detect virus-infected plants infection in monocultures of sugarcane. Infection levels in mixed cropping areas ranged from 2% to 18%. Crop rotation did not appear to impact stunt and ring nematodes, the two most common nematodes in sugarcane (and probably energycane) in Louisiana.			
Publications: Showler, A. T., and T. E. Reagan. 2012. Ecology and tactics of control for three sugarcane stalkboring species in the Western Hemisphere and Africa. In: Goncalves, J. F., and K. D. Correia (eds.). Sugarcane: Production, Cultivation and Uses. Nova Science Publishers. p. 1-39. Showler, A. T., B. E. Wilson, and T. E. Reagan. 2012. Mexican rice borer (Lepidoptera: Crambidae) injury to corn greater than to sorghum and sugarcane under field conditions. Journal of Economic Entomology 105: 1597-1602.			
Participants: T. Reagan (PI), LSU AgCenter; Ted Wilson and Mo Way, Texas AgriLife, Beaumont, TX			
Target Audiences: Biomass producers and professionals involved in integrated pest management			
Project Modifications:			

Nothing significant to report during this reporting period.

Approved (Signature)	Title	Date
		