

| U.S. Department of Agriculture Work Unit Description AD-416 U.S. Dept. of Agriculture, State Agricultural Experiment Stations and Other Institutions | | | | Date (Month/Day/Year) 09/13/2011 | |
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| 1. Accession No. | | Agency Identifiers | | 5. Work Unit/Project No. | |
| | | 2. NIFA | | 3. LA.B | |
| | | | | LAB94115 | |
| 7. Title Management of the Brown Marmorated Stink Bug | | 6. Status A = New Project | | | |
| 8. Performing Organization 0910 - 2010 Entomology Agricultural Experiment Sta, Louisiana State Univ | | | 9. Cooperating Departments within State Performing Institution | | |
| 10. Multistate Project No. NE508 | | | 11. Cooperating States | | |
| 12. Investigator Name(s) Last Name and Initials) 1. Davis, J.A. | | | Sent via BITNET/INTERNET electronic mail systems Date: 9/13/11 | | |
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| 14. Project Type Hatch/Multistate | | 15. Contract/Grant/Agreement No. | | 16. Amount | |
| | | | | 17. FY | |
| 18. Award Date (Month/Day/Year) | | 19. Start Date (Month/Day/Year) | | 20. Termination Date (Month/Day/Year) | |
| | | 08/01/2011 | | 07/31/2013 | |
| Goals/Objectives/Expected Outputs | | | | | |
| 1. Assess the extent and nature of injury caused brown marmorated stink bug. 2. Develop monitoring methods for brown marmorated stink bug. 4. Determine the toxicity and field efficacy of selected insecticides for brown marmorated stink bug control in field crops, fruit, nursery and vegetables | | | | | |
| Methods | | | | | |
| I will establish research plots in soybean to develop and evaluate monitoring methods. Plots will be maintained using standard practices but without the use of insecticide. Depending on the crop, adult brown marmorated stink bugs will be monitored using a combination of blacklight traps, pheromone traps, direct visual counts or sweep netting. Nymphal populations will be monitored using weekly direct counts only. Data collected from blacklight and pheromone traps will be correlated with the first presence of adults and nymphal BMSB in plots. If brown marmorated stink bug becomes established in Louisiana, we will evaluate damage caused by the brown marmorated sting bug in soybean fields. Beginning with the first appearance of adults, eggs or nymphs in plots, sentinel plants will be evaluated for damage on weekly basis. At harvest, yield estimates and damage evaluations will be taken from a subsample of plants within each plot. If brown marmorated stink bug does establish in Louisiana, we will evaluate field and laboratory efficacy of insecticides to control this pest. | | | | | |
| 23. Non-Technical Summary | | | | | |
| The brown marmorated stink bug is a highly polyphagous stink bug of Asian origin. In its native range of China, Korea and Japan, it is considered an agricultural pest of soybeans, tree fruit and various ornamental crops. Since its introduction into the United States around 1996, it has spread to 23 states and has become a severe agricultural pest with few or no management options. It currently is not present in Louisiana. If it does arrive, conditions are conducive to its survival. In addition, Louisiana has many fruit, vegetable, and agronomic crops which this pest can harm. Monitoring must begin to determine if this pest has reached Louisiana. Once it has arrived, damage potential and control methods will be evaluated, insuring Louisiana producers will have the most update information on this new invasive pest. | | | | | |
| 24. Keywords | | | | | |
| brown marmorated stink bug; soybean; | | | | | |
| **** The Original signed document is on file at this institution. **** | | | | | |
| Signature | | Title | | Date | |
| Dept: Admin:  | | Associate Director | | 9/13/11 | |

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