

Mississippi Corn Promotion Board 2024 Progress Report

Project

Title: Identification of Factors Contributing to Early Season

Stink Bug Infestations in Field Corn

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Project Summary (Issue/Response)

During the spring of 2023, traps baited with pheromone for brown marmorated stink bug, During the spring of 2024, traps were baited with pheromone for brown marmorated stink bug, consperse stink bug, or a multi species stink bug pheromone were placed at the edges of 30 corn fields during mid to late April (Figure 1). Traps were monitored for three to four weeks. Based on crop residue most of the fields sampled were planted to soybeans during 2023. Estimates of the number of stink bug damaged corn plants near trap locations were determined at each sampling date.



Project Results/Outcomes

Brown stink bug adults were captured in traps baited with the different stinkbug pheromones (Figure 2). Traps baited with brown marmorated, or consperse stink bug pheromone captured more stink bugs than traps baited multi species pheromone. More stink bugs were captured during weeks 2 and 3 compared to weeks 1 and 4. The incidence of stink bug damaged plants was low in the fields sampled. This could be due to rapid growth of corn plants observed in these fields and that the majority of stink bugs were captured when corn plants were at the V3 or later growth stages. A small number of brown marmorated stink bugs were also captured in traps near Leland, MS.

Project Results



Figure 1. Corn fields with stink bug traps during 2024.

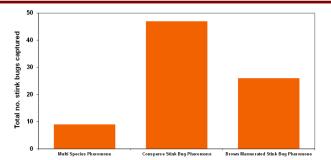


Figure 2. Total number of brown stink bugs captured using selected stink bug pheromones. Data represent total of all

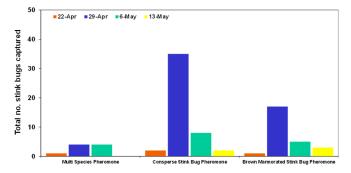


Figure 3. Brown stink bug captures using selected stink bug pheromones for sample weeks.

Project Impacts/Benefits

Preliminary results indicate that commercial stink bug pheromones may able to attract/capture brown stink bug. This would provide an easier sampling procedure than is currently available.

Project Deliverables

Results have been presented at grower and consultant meetings.



