GA Peanut Commission Project Report – 2018 Brooks County Applied Research Projects

1. Efficacy of PPI broadcast application of Lorsban Advanced against peanut burrower bug in commercial peanut fields

OBJECTIVE: The main objective of this research was to conduct two Brooks County on-farm commercial peanut trials, applying Lorsban PPI, to evaluate the effect on burrower bug presence, activity, and/or pod damage in commercial peanut fields with history of burrower bug activity/damage.
The specific objectives/protocol of this study included:
-Investigate the effect of PPI Lorsban application on burrower bug populations/activity and eventual effect on peanut yield and/or crop damage level and resulting quality grade.
-Calibrated sprayers to be used in commercial field Lorsban applications on April 19th. Calibration performed and assessed to ensure consistent and effective Lorsban pre-plant broadcast application (and incorporation) prior to peanut planting.
-Field One – Sprayed April 19th, replicated five times.
-Field Two – Sprayed April 26th, replicated four times.
-Field One - Harvested September 18th
-Field Two – Harvested September 21st.
-At each harvest, collected/recorded yield data and collected peanut samples for evaluation of burrower bug damage.
-Study resulting data, including peanut yields and quality grades, to explore effectiveness of Lorsban for control of burrower bug within commercial peanut fields, with a history of burrower bug damage.

Summary: Do not have final trial data results/summary, processing of collected peanut samples has not been completed to determine the level of burrower bug damage and the resulting quality grade.

2. Evaluation of host plant resistance in peanut cultivars to peanut burrower bug

Objective: Determine if there is a benefit, which includes decreased burrower bug population/activity, with planting of specific peanut cultivars, in Brooks County commercial peanut field with history of burrower bug activity/damage.
The specific objectives/protocol of this study included:
-Planted variety trial on May 3rd, four replications of seven peanut varieties. Cultivars planted for evaluation, in terms of susceptibility to peanut burrower bug damage, included;
GA-O6G
GA-12Y
GA-13M
GA-14N
FL511
FL297
FL331
-Dug peanuts on September 14th and harvested on September 17th.
-Peanut samples collected at harvest for evaluation and/or presence of burrower bug damage.

Summary: Do not have final trial data results/summary, processing of collected peanut samples has not been completed, to determine the level of burrower bug damage and the resulting quality grade.