Multi-State (GA-AL) Agronomic Management Project - NPB
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Research plots were established in fall 2016 at the Wiregrass Research and Extension Center. This is the third year of this test conducted at Headland, which is in conjunction with an identical test located in Tifton, GA. Individual plots were 12 X 40 ft. wide with a split-plot restriction arranged in a randomized complete block design with four replications. Main plots consisted of either fallow or a rye cover crop planted on 11-09-16 and the split plots will consist of three tillage shank arrangements (no-tillage, single shank, dual shank). Initial soil samples for general fertility recommendations were collected on 12-08-16 with appropriate lime and fertilizer applied based Alabama Extension recommendations, prior to rye planting. The rye on the corresponding plots was terminated on 4-24-17 and biomass samples to estimate rye production were collected at that time. Penetrometer readings, a measurement designed to estimate soil strength, were collected at two different times early in the growing season. The first time corresponded to an initial reading, prior to any tillage operations that occurred on 5-3-17. The second reading was collected on 5-17-17, which was after tillage and planting operations were administered to all plots. The appropriate tillage operations were administered on 5-16-17 followed immediately by planting GA-06G in twin rows across all the plots. Surface residue counts, a measurement designed to estimate the % ground cover remaining on the soil surface after the tillage and planting operations was also collected on 5-17-17. Plant populations were measured approximately 28 DAP on 6-13-17. Peanut plots are scheduled to be dug and harvested during the week of Oct. 2.

At this time, we are in the process of finalizing results for the year; however, peanut yields (10% moisture) were good across the test. Cover crop had no effect on peanut yields (Pr > F = 0.3405). No differences were observed among tillage systems for peanut yields (Pr > F = 0.2909; Fig. 1.). Peanut grades were also good across the test and averaged 76.7, but neither cover crop (Pr > F = 0.2192) nor tillage system (Pr > F = 0.8044) had an effect.

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![2017 Peanut Yields - WGS](chart)