

Project Title: University of Georgia Agronomic Research and Extension Programs to Address Economic Sustainability of Peanut Production

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Agronomic Research and Extension Activities

- 1. Agronomic Research:** Multiple research trials were conducted to continue to access the yield and quality impacts of row spacing, seeding rate, planting dates, tillage practices, harvest date, and varietal resistance to TSWV. Trials were conducted on the Tifton campus (Ponder, Gibbs, ABAC, & RDC), Attapulgus research station, and at the Midville Research Station. Research trials were also conducted to evaluate growth regulators on new cultivars for vine growth reduction and effects on yield potential. Lastly, planter technologies are now being evaluated to assist in explaining stand issues in relation to seed quality. All of the results of these trials help update and/or maintain peanut production recommendations for our growers.
- 2. Extension Field Demonstration Program** - An extensive on-farm field demonstration program for peanuts is conducted each year by the University of Georgia Extension Peanut Team in cooperation with county extension agents. The focus of these on-farm demonstrations is increased profitability through production management. The on-farm trials in 2016 consisted of variety trials in Colquitt County, Berrien County, Houston County, Bullock, and Jenkins County comparing High Oleic Cultivars compared to Georgia-06G. There were also inoculant, foliar fertilizer and growth regulator trials conducted on-farm in Baker and Colquitt counties. Although we have not noted any variety to have the overall productivity of Georgia-06G, there are several new varieties with similar yield potential. The assessment of plant growth regulators are showing positive results on newer varieties with excessive vine growth. Furthermore, these on-farm demonstrations helps the peanut team educate many of the newer agents we now have in the county extension system.
- 3. Peanut Industry and Extension Support** – The funding support for travel was utilized to attend and present my peanut research at APRES and National/Regional Agronomy meetings along with multiple national peanut update presentations at several national industry meetings. These funds have also supported my travel throughout Georgia in order to help county agents and growers with peanut related issues.
- 4. Dissemination of information from all Peanut Research and Extension Programs.** The information compiled through the many research and extension faculty is disseminated through several agent training, research field days and field visits throughout the year. The research results and recommendations are also provided through publications like the peanut update and the UGA peanut team website. We are continuing to updating our Web pages and peanut publications so that growers can have the most up to date information.