

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 assess 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, ABAC, & RDC), at the Midville Research Station, and at the Sunbelt Expo. 20 Plus trials were conducted evaluating Cultivar performance, impacts of agronomic practices (tillage, twin/single row, planting date, and harvest date), growth regulators, Biologicals products, and seed storage trials. Yields were down 500 to 1000 lbs/A in variety trials in Tifton, Early County, Bleckley County, and Colquitt Counties while yields in east Georgia locations surpassed average yields in the past 5+ Years. Georgia-18RU, Georgia-16HO, Georgia-12Y, and the new TifNV-HG performing very well compared to Georgia-06G. The newest cultivar Georgia-20VHO performed poorly in a majority of the variety trials due to excessive Moisture.
- 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 2021 consisted of variety trials in Colquitt, Berrien, Bulloch, Early, and Bleckley, Ben Hill, and Burke counties comparing newly released cultivars. In-furrow fertilizer trials in Worth, Tift, and Colquitt Counties and biological stimulant trials conducted on-farm in Appling, Berrien, and Colquitt counties. County agents also help in conducting multiple growth regulator trials in Early, Bulloch, and Tift Counties evaluating a new formulation from Fine-Americas. The results of the variety trials have indicated several of the newer varieties are similar in productivity and quality as Georgia-06G with Georgia-16HO, Georgia-18RU, TifNV_HG showing great potential. The in-furrow fertilizer project showed these products cause significant problems with seed germination and emergence leading to growers losing more than \$60/A from damage to seed, cost of the fertilizers, and cost of replanting. Finally, county trials showed that Biological stimulant do not provide any benefits in the 2-3 years of being tested.
- 3. Peanut Industry and Extension Support** – The funding support for expenses 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. I made over 80 county visits throughout the season and made more than 30 presentations in 2021.
- 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.

