

Project Title: University of Georgia Agronomic Research and Extension Programs to Address Economic Sustainability of Peanut Production (2022)

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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 1000 lbs/A in a majority of our early planted variety trials with Georgia-18RU, GA-20VHO, TifNV-HG and GA-12Y performing very well compared to Georgia-06G. There were several varieties from the International Peanut Group that looked very good having less overall TSWV and yielding better than GA-06G. The newest cultivar Georgia-20VHO performed better in 2022 than in the two previous years, however, still is having issues with pod shedding.
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 2020 consisted of variety trials in Colquitt, Berrien, Bullock, Early, Grady, Jeff Davis, bleckley, Tattall, and Pulaski Counties, and biological stimulant trials conducted on-farm in Bulloch and Colquitt counties. 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, and TifNV-HG showing great potential.
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4. **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 70 county visits throughout the season and made more than 70 presentations in 2020. I made over 30 field visits due to stand issues and TSWV alone. GA planted more than 6% of crop before May 10th and TSWV significantly impacted yield and quality in these fields.
5. **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.