

2021 Georgia Peanut Commission Grant

2021 Worth County On-Farm Peanut In-Furrow Fertility Trials (Irrigated and Non-irrigated)

Principal Investigators: Scott Carlson, Worth County Extension Coordinator;
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Specialist: Dr. Scott Monfort, UGA Peanut Agronomist

Cooperators: T&T Sumner Farms (Tim and Tommy Sumner), Farmer Cooperators

Objective:

Worth County Extension conducted two on-farm trials with T&T Sumner Farms to compare the effects of in-furrow fertilizer on peanut germination, emergence, and growth. The trials were an irrigated trial and a non-irrigated trial. The trials were randomized complete block design with 4 replications of 9 treatments. We took ratings of emergence and plant growth, disease incidence, and yield. The objective of the trials is to collect useful data and evidence to share with peanut growers about the effects of adding in-furrow fertilizer in peanut production.

Plan of Action:

We applied treatments in-furrow at planting. As peanuts began to emerge, regular stand counts were taken for each treatment. Plant growth was monitored during the growing season and disease ratings were taken for Tomato Spotted Wilt Virus. We harvested each of the treatments in the trials separately for yield and quality data comparison. The trials were conducted with grower cooperators, Worth County Extension staff, and the UGA Extension Peanut Team.

Plans for how funds were to be used:

Funds were used to purchase any materials not donated/provided for the trials. Any unused portions of the grant will be used for Extension programming efforts in peanut production or documentation/presentation of the trial results to peanut producers and/or industry partners.