

2015 Irrigated Evaluation of Four Peanut Varieties

Bulloch County Cooperative Extension

I.) Title of Project

2015 Irrigated Evaluation of Four Peanut Varieties

II.) Principal Investigator and Cooperator

Bill Tyson, Bulloch County Cooperative Extension; Dr. Scott Monfort, UGA Extension Peanut Agronomist; Wade Hodges, Bulloch County farmer.

III.) Objective(s)

Develop and conduct a relevant, timely cultivar selection research trial that will provide data used by farmers statewide. The specific goals of the research trial will be to evaluate four peanut varieties for yield and grade. The varieties to be planted are Georgia-06G, Georgia-12Y, Georgia-09B and TUFRunner 511.

IV.) Plan of Action

The peanut variety demonstration trial was planted on May 19 and harvested on October 22. The trial contains three replications in a standard randomized block design. The plots are planted on 36" row spacing, with a seeding rate of 140 pounds/acre, treated with Cruiser Maxx insecticide. Tomato Spotted Wilt Virus (TSWV) counts will be taken on each variety within the growing season. Mr. Tyson will conclude the variety trial with harvest, which will include yield and grade determination. Yield will be determined by weighing each individual plot; with plot length determined using a measuring wheel. A representative sample from each plot will be pulled to determine grade.

V.) Results

GA-06G was the highest yielding variety with GA-09B being the lowest. GA-06G yielded 6797 lbs./A with 77% Total SMK, TUFRunner 511 yielded 6689 lbs./A with 73% Total SMK, GA-12Y yielded 6552 lbs./A with 69% Total SMK and GA-09B yielded 5964 lbs./A with 73 % Total SMK. TSWV counts were taken on each variety on October 8. GA-12Y exhibited the lowest TSWV% and TUFRunner 511 exhibited the highest. It was concluded from this research trial that GA-06G is still a very good variety, GA-12Y has strong TSWV resistance (along with other disease resistance) and TUFRunner 511 is a Hi-Oleic variety moving up in yield potential. Growers should be mindful of all the characteristics of a variety before making planting decisions.

TSWV, grade and yield of four irrigated peanut varieties.

Variety	TSWV%	TSMK	Yield (lbs./A)
GA-06G	12	77	6797
TUFRunner 511	17	73	6689
GA-12Y	3	69	6552
GA-09B	9	73	5964