

## **2016 Dryland Evaluation of Six Peanut Varieties**

### **Bulloch County Cooperative Extension**

#### **I.) Title of Project**

2016 Dryland Evaluation of Six Peanut Varieties

#### **II.) Principal Investigator and Cooperator**

Bill Tyson, Bulloch County Cooperative Extension; Dr. Scott Monfort, UGA Extension Peanut Agronomist; Amanda Smith, UGA Extension Economist; Brannen Farms, Bulloch County farmers.

#### **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 six peanut varieties for yield and grade. The varieties to be planted are Georgia-06G, Georgia-12Y, Georgia-13M, Georgia Greener, Georgia-07W and FloRunner 107.

#### **IV.) Plan of Action**

The peanut variety demonstration trial was planted on May 16 and harvested on November 2. The trial contains three replications in a standard randomized block design. The plots are planted on 38" row spacing, with a seeding rate of 140 pounds/acre, treated with Cruiser Maxx insecticide. Tomato Spotted Wilt Virus (TSWV) counts were 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-12Y was the highest yielding variety with FloRunner 107 being the lowest. GA-12Y yielded 5266 lbs./A with 72% Total SMK, GA-06G yielded 5067 lbs./A with 75% Total SMK, GA-07W yielded 4894 lbs./A with 74% Total SMK, GA-13M yielded 4855 lbs./A with 71 % Total SMK, GA-Greener yielded 4808 lbs./A with 74% Total SMK and FloRunner 107 yielded 4371 lbs./A with 70% Total SMK. TSWV counts were taken on each variety on October 21. GA-13M exhibited the lowest TSWV% and GA-Greener exhibited the highest. Although GA-12Y was fourth in quality, its high yield more than made up for that and it resulted in the highest gross revenue per acre. GA-06G was the highest quality and had the second best yield so it is a close second in gross revenue per acre. FloRunner 107 had the lowest yield and quality grade; therefore, it had lowest gross revenue per acre.

**TSWV, grade and yield of six dryland peanut varieties.**

| <b>Variety</b> | <b>TSWV%</b> | <b>TSMK</b> | <b>Yield (lbs./A)</b> |
|----------------|--------------|-------------|-----------------------|
| GA-12Y         | 2            | 72          | 5266                  |
| GA-06G         | 2.67         | 75          | 5067                  |
| GA-07W         | 2.67         | 74          | 4894                  |
| GA-13M         | 0            | 71          | 4855                  |
| GA-Greener     | 3.67         | 74          | 4808                  |
| FloRunner 107  | 3            | 70          | 4371                  |

**Value of peanuts with loan rate of \$355/ton, adjusted for yield at 7% moisture and quality grades.**

| <b>Variety</b>  | <b>Yield (7% moisture)/Acre</b> | <b>Value/Ton</b> | <b>Gross Revenue/Acre</b> |
|-----------------|---------------------------------|------------------|---------------------------|
| GA-12Y          | 5,096                           | \$351            | \$894                     |
| GA-06G          | 4,904                           | \$360            | \$883                     |
| GA-07W          | 4,736                           | \$353            | \$836                     |
| Georgia Greener | 4,653                           | \$352            | \$819                     |
| GA-13M          | 4,698                           | \$345            | \$810                     |
| FloRunner 107   | 4,230                           | \$341            | \$722                     |