



## 2024 Early County On-Farm Peanut Variety Trial

In cooperation with a local grower, Mike Newberry, I was able to implement a 2024 On-Farm Peanut Variety Trial in Early County. The trial included 8 varieties with 4 repetitions. The varieties: Florun-52, Tif-CB7, Georgia-06G, Georgia-22MPR, Georgia-21GR, TifNV-HG, Arnie and DGN0913. In total, the plot was just over 4.7 acres. We planted on May 7<sup>th</sup> - 8<sup>th</sup> with a six row, twin foot planter. From there I conducted numerous ratings across the plot to compare varieties.

- Stand Count (7 DAP) – I randomly measured out 10 feet of twin row for each repetition to count germinated plants. Arnie had the highest stand count, while Georgia-21GR had the lowest.
- Stand Count (15 DAP) – I randomly measured out 10 feet of twin row for each repetition to count germinated plants. TifNV-HG had the highest stand count, while Georgia-22MPR had the lowest.
- 1st Tomato Spotted Wilt Virus (TSWV) Rating (58 DAP) – I measured out 100 feet of twin row from the East end of the plot for each repetition. I then counted the 1 foot “hits” of virus in that measured area. Georgia-06G had the highest percent of TSWV, while DGN0913 had the lowest.
- Early Season Vigor Rating (64 DAP) – I walked through each repetition to assess how lapped the peanuts were. I assigned each repetition a value on a scale of 1-10 with 1 being wilted/dead and 10 being vigorously growing.
- Height Measurement (72 DAP) – After the first Apogee application, I randomly measured the height from the soil surface to the top of the plant canopy in three areas, across all repetitions. TifNV-HG was the highest, while Georgia-21GR was the shortest.
- Height Measurement (86 DAP) – After the second Apogee application, I randomly measured the height from the soil surface to the top of the plant canopy in three areas, across all repetitions. DGN0913 was the highest, while Georgia-21GR was the lowest.
- 2<sup>nd</sup> Tomato Spotted Wilt Virus (TSWV) Rating (103 DAP) - I measured out 100 feet of twin row from the East end of the plot for each repetition. I then counted the 1 foot “hits” of virus in that measured area. Georgia-06G had the highest percent of TSWV, while DGN0913 had the lowest.
- Leaf Spot Rating (152 DAP) – I conducted this rating before inversion of the plants. I assigned each repetition a value on a scale of 1-10, with 1 being little to no leaf spot present and 10 being completely defoliated. Arnie had the highest percentage of leaf spot, while Tif-CB7 had the lowest.
- White Mold Rating (152 DAP) – I conducted this rating directly after inversion of the plants. I randomly measured out 100 foot of twin row and counted 1 foot “hits” of white mold found. Then, totaled them for each repetition. Georgia-06G had the highest percentage of white mold, while Florun-52 and DGN0913 had the lowest.



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- Harvest Weights (159 DAP) – We picked and then weighed each repetition independently. Once we started in a variety, we stayed in it across the plot to complete all repetitions before moving to the next variety. Georgia-21GR had the highest total weight, while Tif-CB7 had the lowest.

The funds provided by the Georgia Peanut Commission Peanut Research Demonstration Grant were used to purchase small field flags (8 colors), large bicycle flags (8 colors), a box of latex gloves, field stakes, and a paint pen.

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