

Bulloch County Extension

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I.) Title of Project

Comparison of 10 Peanut White Mold Fungicide Programs in Bulloch County, GA

II.) Principal Investigator and Cooperator

Bill Tyson, Bulloch County Cooperative Extension; Dr. Bob Kemerait, UGA Extension Peanut Pathologist; Stilson Farms (Wade McElveen), Bulloch County farmer.

III.) Objective(s)

1. To collect large plot, on-farm, multi-year data on efficacy of fungicides on soilborne diseases of peanut. The data collected is of real importance to growers in Bulloch County and the southeast.
2. To compare efficacy of fungicide applications against leaf spot and stem rot (white mold).
3. Develop and conduct a relevant, timely soilborne peanut fungicide research trial that will provide data used by farmers statewide. The specific goals of the research trial will be to evaluate ten different fungicide treatments.

IV.) Plan of Action

The peanut fungicide trial was planted to GA-06G on 6 May 2024 and harvested on 9 October 2024. The trial contained three replications in a standard block design. The trial was dryland and planted on 38" twin-row peanut spacing. Disease counts were taken for leaf spot and white mold for each of the fungicide treatments. County agent concluded the trial with harvest. Yield was determined by weighing each individual plot. The results are being used by the UGA Peanut Pathologist and county agent for presentation during county production meetings.

V.) Results

Leaf spot was controlled in all fungicide programs. The increase in white mold hits is a factor of it expanding within the row and amount of active white mold present at time disease ratings were taken. Under such high white mold pressure, the tebuconazole and Bravo fungicide treatment had the lowest yield (5104 lbs./acre) and most white mold hits (78 per 200 row ft.). The difference in yield between the Lucento/Convoy/Provost Silver program and the Tebuconazole/Bravo program was 1055 pounds per acre. Research provides data to show that six fungicide applications can give the same white mold disease control as eight applications. The highest ROI was produced by the Lucento/Convoy/Provost Silver fungicide program at \$960 per acre and the Vantana/Provost Silver/Tebuconazole fungicide program had the lowest ROI which totaled \$829 per acre. Better effective and higher priced fungicide programs are most beneficial in moderate to high white mold disease situations and under good growing conditions.