

On-Farm Evaluation of Nematicides in Peanut in the Florida Panhandle

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The performance of three nematicide products in comparison to each other and an untreated check were assessed on-farm over a two-year period. The trial took place in 2017 and 2018, in the central Panhandle of Florida, hosted by a Jackson County producer. Sampling for and confirmation of root-knot nematode presence was completed each year prior to the trial. Both years, the products were applied in field length test strips with four replicates and the same treatments and rates were maintained each year. We evaluated Telone II (3.5 gal/a), Velum Total (18 oz/a), AgLogic 15GG (7 lb/a at planting), and an untreated check. Nematode populations, damage, and crop yield were tracked. The objectives of the trial were 1) assess product efficacy for root-knot nematode management; 2) assess product impacts on beneficial nematode populations; and 3) quantify treatment yields to determine the cost efficiency of products. Nematode populations were assessed in 50' plots marked within each treatment replication. This occurred prior to planting and nematicide application, midseason (65 days after planting), and late season (120 days after planting). Peanut yields were assessed from the whole field-length strip. Beneficial nematodes populations (fungal feeders) were found to be impacted by some of the treatments both years. In 2017, all treatments significantly increased peanut yield when compared to the untreated control. However, the 2018 trial found varying results as the untreated control performed statistically similar to all other treatments. This inconsistency is likely attributed to the difference in severity of root-knot nematode infestation in fields year to year.