

Velum Total and AgLogic 15G Compared for Peanut Root-Knot Control and Yield Response on Root-Knot Susceptible and Resistant Peanut Cultivars

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The impact of Velum Total and AgLogic 15G were compared for peanut root-knot nematode (*Meloidogyne arenaria* race 2) control and yield response on irrigated nematode susceptible and resistant cultivars at the Wiregrass Research and Extension Center in Headland, AL. Peanut was cropped behind peanut in 2016 and cotton in 2017. In each study year, a factorial design arranged as a split plot with cultivar as the whole plot and nematicide as the split plot treatment. While Velum Total at 18 fl oz/A applied with a single nozzle over the open furrow in 5 gal/A spray volume, AgLogic 15G at 7 lb/A was applied in-furrow. A non-treated control was included. Cultivars grown in 2016 included the root-knot susceptible Georgia-06G along with the root-knot resistant Georgia-14N and Tifguard with the resistant TIF NV High O/L replacing the latter cultivar in 2017. In both study years, the root-knot reproductive index was lower for the resistant cultivars compared with the susceptible Georgia-06G. In contrast, similar root-knot reproduction was recorded for both nematicide programs and the non-treated control. In 2016, Georgia-14N outyielded both Georgia-06G and Tifguard, which had similarly low yields. For the following study year, TIF NV High O/L produced higher yield than Georgia-14N but not Georgia-06G. When compared with the non-treated control, significant yield gains were recorded with Velum Total in 2016 but not 2017. Yield for the AgLogic 15G-treated peanut and non-treated control were similar in both study years. Other factors such as plant vigor, leaf spot-incited defoliation, and stem rot incidence were also recorded.