

Classic® (chlorimuron) Effects on New Peanut Cultivars

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Over the last several years, interest in the use of Classic® (chlorimuron) for the control of late-season Florida beggarweed (*Desmodium tortuosum*) has increased. Historically, peanut cultivar tolerance to Classic has been variable and the use of Classic has resulted in minor increases ($\leq 10\%$) in the incidence of tomato spotted wilt virus (TSWV). Little information is known about the tolerance of newer peanut cultivars since the last cultivar research conducted in Georgia was in 2012. Thus, research was conducted in 2021 near Ty Ty, Georgia to evaluate the tolerance of new peanut cultivars to Classic. The trial was arranged in a randomized complete block design with a 5 (cultivar) by 4 (timing) factorial arrangement of treatments. Peanut cultivars included the following: GA-18RU; GA-20VHO; AUNPL-17; TIFNV High-O/L; and FLORUN 331. Using a backpack sprayer calibrated to deliver 15 GPA using AIXR-11002 nozzles, Classic 25G @ 0.5 oz/A + Induce @ 0.25% v/v was applied at 63, 75, and 88 days after planting (DAP). A non-treated control was also included. Each cultivar X timing treatment was replicated 3 times and the plot area was maintained weed-free. Data collected included peanut plant heights (110 DAP), TSWV incidence (110 DAP), and yield. All data were subjected to ANOVA using PROC GLIMMIX and means separated using the Tukey-Kramer method ($P < 0.10$). No interactions were observed between cultivar and timing ($P > 0.56$). When averaged over timing, the following cultivar effects were observed: GA-20VHO was 15%-27% shorter in height than all other cultivars; AUNPL-17 and GA-20VHO had 15% less TSWV than FLORUN 331; and GA-20VHO had 18% lower yields than AUNPL-17. When averaged over cultivar, the following timing effects were observed: peanut heights were significantly reduced by 13% when Classic was applied at either 75 or 88 DAP; Classic applied at 88 DAP resulted in a 10% increase in TSWV; and peanut yields were not reduced by any timing ($P = 0.4778$).