

**Weed Control with Gramoxone plus Basagran with Residual Herbicides in North Carolina**  
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Protection of peanut from weed interference early in the season is important in optimizing peanut yield. Research was conducted during 2020 and 2021 in North Carolina to determine weed control and peanut response to Gramoxone (8 oz/acre) plus Basagran (8 oz/acre) applied alone or with Dual Magnum (16 oz/acre), Warrant (48 oz/acre), Outlook (13 oz/acre), Zidua (2.5 oz/acre), and Anthem Flex (2.7 oz/acre) when weeds were less than 3 inches tall. Non-ionic surfactant at 1 pint/100 gallons spray solution was included. Herbicides were applied in 15 gallons water/acre at 31 psi using CO<sub>2</sub>-pressurized backpack spray equipment. Visual estimates of percent weed control and crop injury were recorded at various intervals after application using a scale of 0 to 100% where 0 = no control or peanut injury and 100 = complete control or peanut death.

Common ragweed and Palmer amaranth control was similar for all residual herbicide by the end of the season and greater than Gramoxone plus Basagran. Texas panicum control was similar when Gramoxone plus Basagran was applied with Dual Magnum, Outlook, Zidua, and Anthem Flex and exceeded that of Gramoxone plus Basagran alone or with Warrant. Pod yield was the same regardless of residual herbicide and in most cases exceeded yield of non-treated peanut and Gramoxone plus Basagran alone.