

Comments about Peanut Response to Cover Crops and Pesticides

Ethan Foote and David Jordan

Department of Crop and Soil Sciences, North Carolina State University

General Comments on Experiences with Cover Crops in Peanuts

1. Cereal rye protects soil from wind and water erosion.
2. Cereal rye reduces weed infestation but not adequately to eliminate herbicides but in some cases reduce the number of herbicide sprays.
3. Cereal rye reduces injury from thrips.
4. Cereal rye reduced leaf spot incidence slightly compared with stale seedbed.
5. Cereal rye can conserve soil water.
6. Southern corn rootworm damage was similar in cereal rye compared with native vegetation or when cereal rye was desiccated early in the winter.
7. Three applications of Steward did not reduce pod scaring caused by southern corn rootworm.
8. Cereal rye makes digging pods and inverting vines less efficient.
9. Peanut yield was lower in cereal rye in spite of all of the perceived benefits.
10. Cereal rye cover crop costs a considerable amount of money (seed and fertilizer to grow adequate biomass.)
11. Peanut yield is greater in strip tillage than no tillage; Yields are more consistent and higher in conventional tillage.
12. In previous research, peanut yield was similar when strip tilled after desiccation of cereal rye, wheat, oat, and native vegetation.

Weed Control with Brake Herbicide in Peanuts

Supplemental Label for Brake Herbicide (Fluridone, Group 12) approved in 2023 for use in peanuts.

Residual herbicide, aids in delaying resistant weed species.

Comparison of residual preemergence herbicide combination in 2023 and 2024, at two locations in NC.

Control of common ragweed, Palmer amaranth, Texas panicum, and morningglories was similar to or greater with Dual Magnum plus Valor SX compared with any Brake combination.

1	Untreated
2	Brake plus Dual Magnum
3	Brake plus Outlook
4	Brake plus Warrant
5	Brake plus Prowl H2O
6	Brake plus Valor
7	Valor plus Dual Magnum

A similar response was observed in North Carolina in 2024 based on early season ratings.

Peanut Field Days and Events in North Carolina

North Carolina Peanut Field Day, September 5

Peanut Belt Research Station, 112 Research Ln, Lewiston-Woodville, NC, 27849

Southeastern North Carolina Peanut Field Day, September 10

Bladen County, NC

Peanut Variety and Quality Evaluation Tour, September 11

Martin County, NC

Central North Carolina Peanut Field Day, September 12

Wayne County, NC

Late-Season Disease and Harvest Tour, September 25

Peanut Belt Research Station, 112 Research Ln, Lewiston-Woodville, NC, 27849

NC Peanut Extension Portal (<https://peanut.ces.ncsu.edu>)

2024 Peanut Information Book

Peanut Cultivars

Production and Budgeting Resources

Signup for weekly Peanut Notes: <https://peanut.ces.ncsu.edu/email-me/>

Contact David Jordan for additional information:

david_jordan@ncsu.edu

919-810-6611