

# Leaf Spot Control with Various Fungicides Applied to Bailey II, Emery, and Sullivan

Ethan Foote, David Jordan, and Jeff Dunne  
Department of Crop and Soil Sciences  
North Carolina State University

Barbara Shew  
Department of Entomology and Plant Pathology  
North Carolina State University

919-810-6611  
[david\\_jordan@ncsu.edu](mailto:david_jordan@ncsu.edu)

Funded by the North Carolina Peanut Growers Association  
Objective 2 in Jordan traditional proposal

# Materials and Methods

- Small plots, 4 rows by 30 feet
- 4 replications
- Planted in early to mid May
- Conventional tillage
- Backpack (11002 flat fan)
- 31 psi, 3 mph
- Split plot design (variety as whole plot, fungicide as sub-plot)
- “Spray” on two-week schedule
- Data are pooled over 3 locations
- Treatments to follow

# **Bailey II, Emery, Sullivan**

## **No Fungicide**

# **Bailey II, Emery, Sullivan**

**Spray 1, Chlorothalonil, 24 oz**

**Spray 2, Miravis, 3.4 oz**

**Spray 2, Elatus, 9.4 oz**

**Spray 3, No fungicide**

**Spray 4, Provost Silver, 13 oz**

**Spray 5, Chlorothalonil, 24 oz**



# **Bailey II, Emery, Sullivan**

**Spray 1, Chlorothalonil, 24 oz**

**Spray 2, Provost Silver, 13 oz**

**Spray 3, Revytek, 14 oz**

**Spray 4, Lucento, 5.5 oz**

**Spray 5, Chlorothalonil, 24 oz**

**\*Based on Leaf Spot Advisory**

# **Bailey II, Emery, Sullivan**

**Spray 1, Chlorothalonil, 24 oz**

Spray 2, No fungicide

**Spray 3, Chlorothalonil, 24 oz**

**Spray 3, Tebuconazole, 7.2 oz**

Spray 4, No fungicide

**Spray 5, Chlorothalonil, 24 oz**

# **Bailey II, Emery, Sullivan**

**Spray 1, Chlorothalonil, 24 oz**

**Spray 2, Chlorothalonil, 24 oz**

**Spray 2, Tebuconazole, 7.2 oz**

**Spray 3, Chlorothalonil, 24 oz**

**Spray 3, Tebuconazole, 7.2 oz**

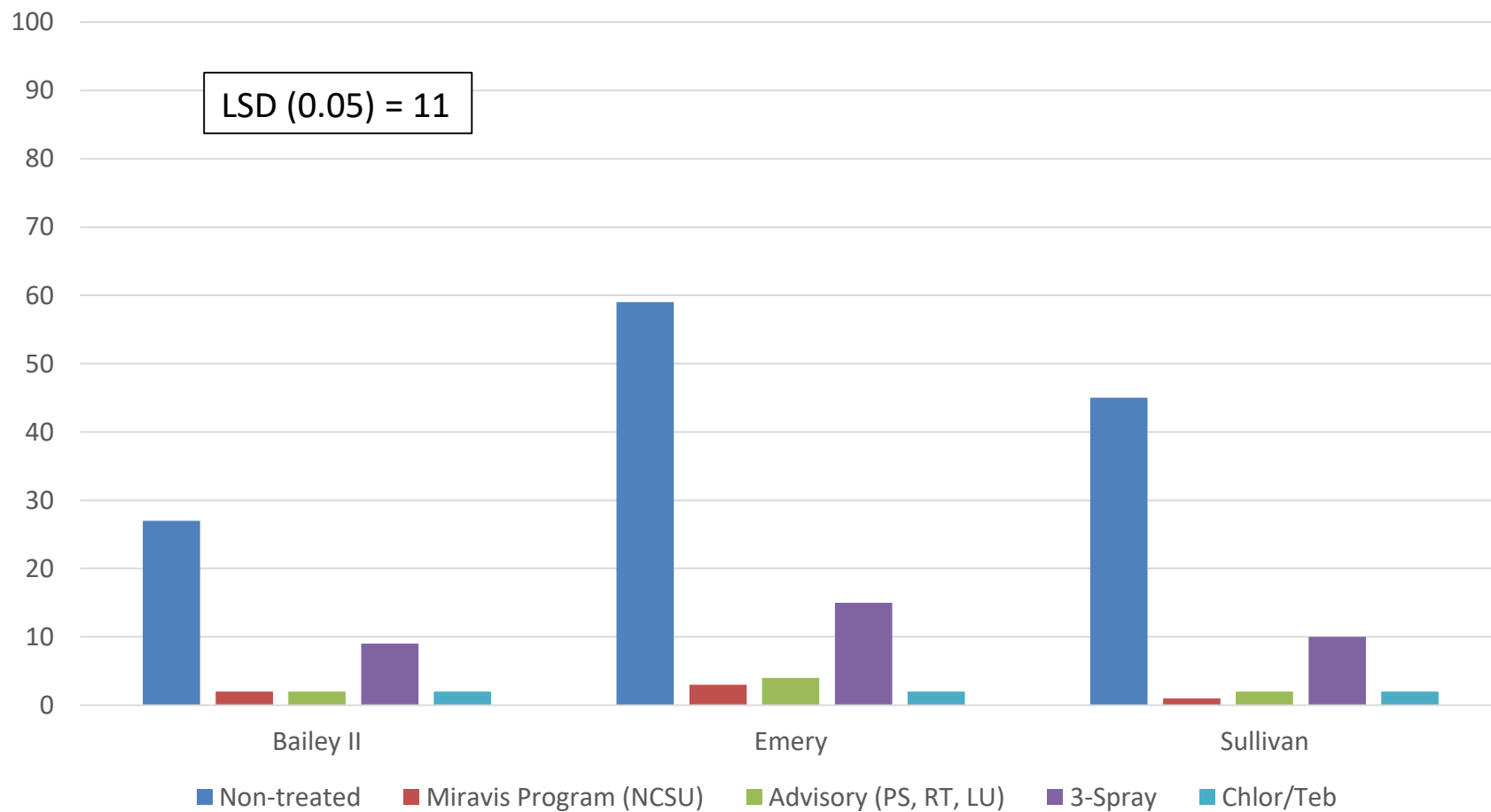
**Spray 4, Chlorothalonil, 24 oz**

**Spray 4, Tebuconazole, 7.2 oz**

**Spray 5, Chlorothalonil, 24 oz**

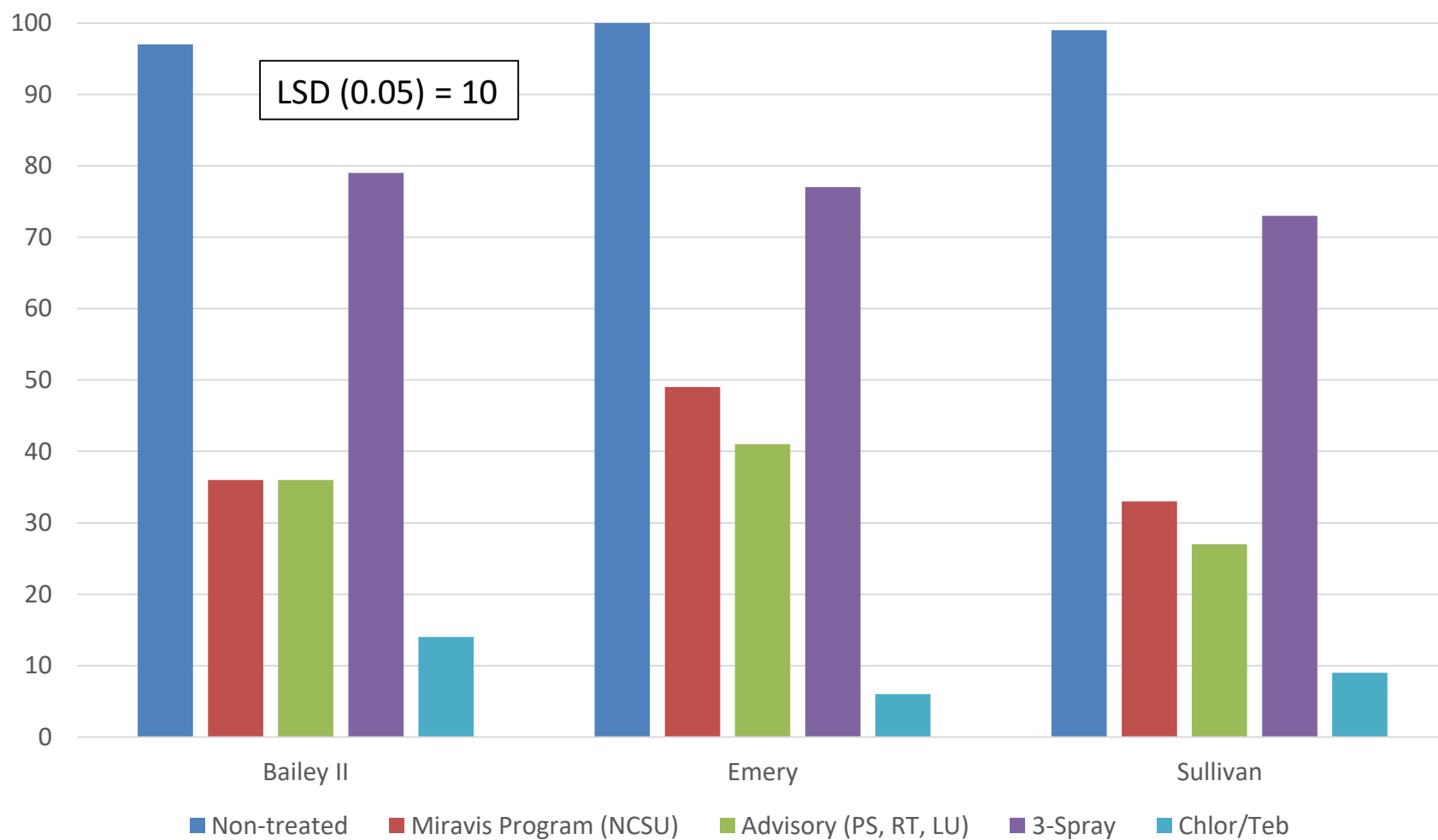
## Leaf Spot Incidence (Percent of Leaves with Lesions) 10 Days Before Harvest

Data are pooled over three locations in 2021



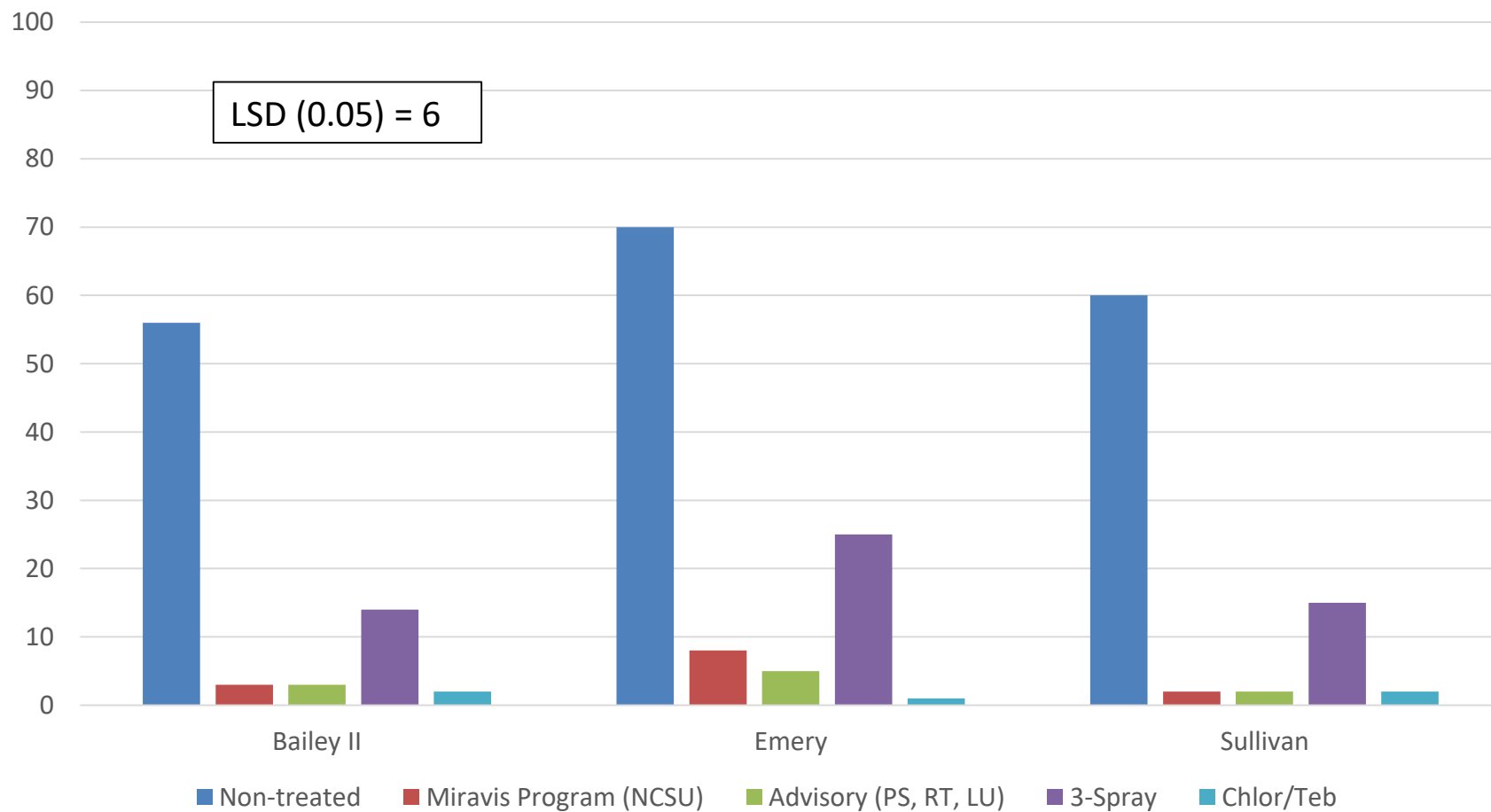
## Leaf Spot Incidence (Percent of Leaves with Lesions) at Harvest

Data are pooled over three locations in 2021



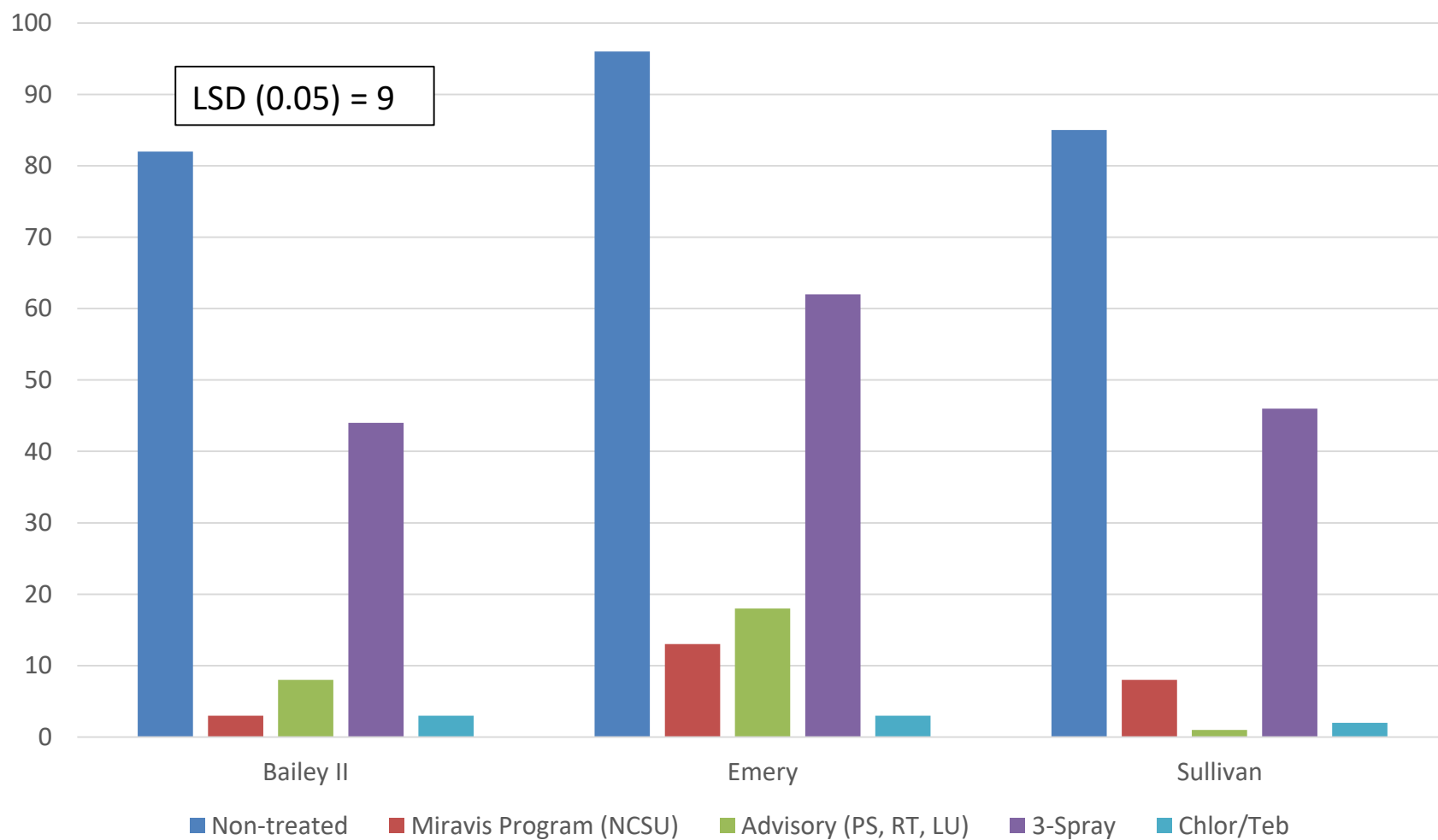
## Canopy Defoliation (Percent of Leaves Lost) 10 Days Before Harvest

Data are pooled over three locations in 2021

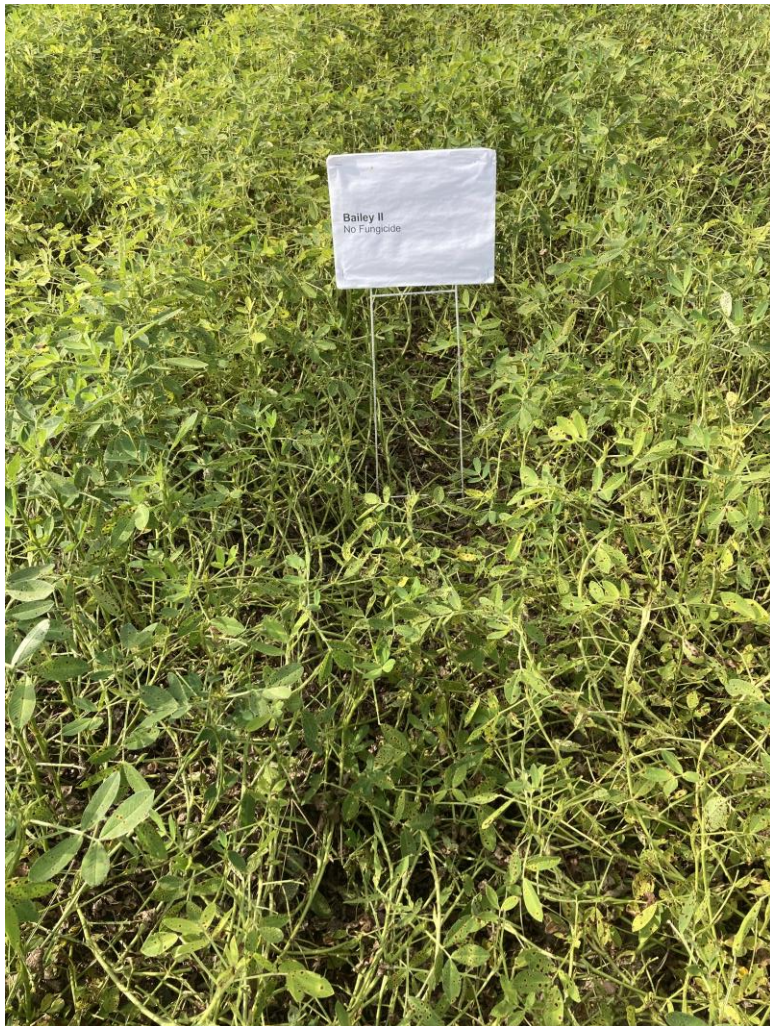


## Canopy Defoliation (Percent of Leaves Lost) at Harvest

Data are pooled over three locations in 2021



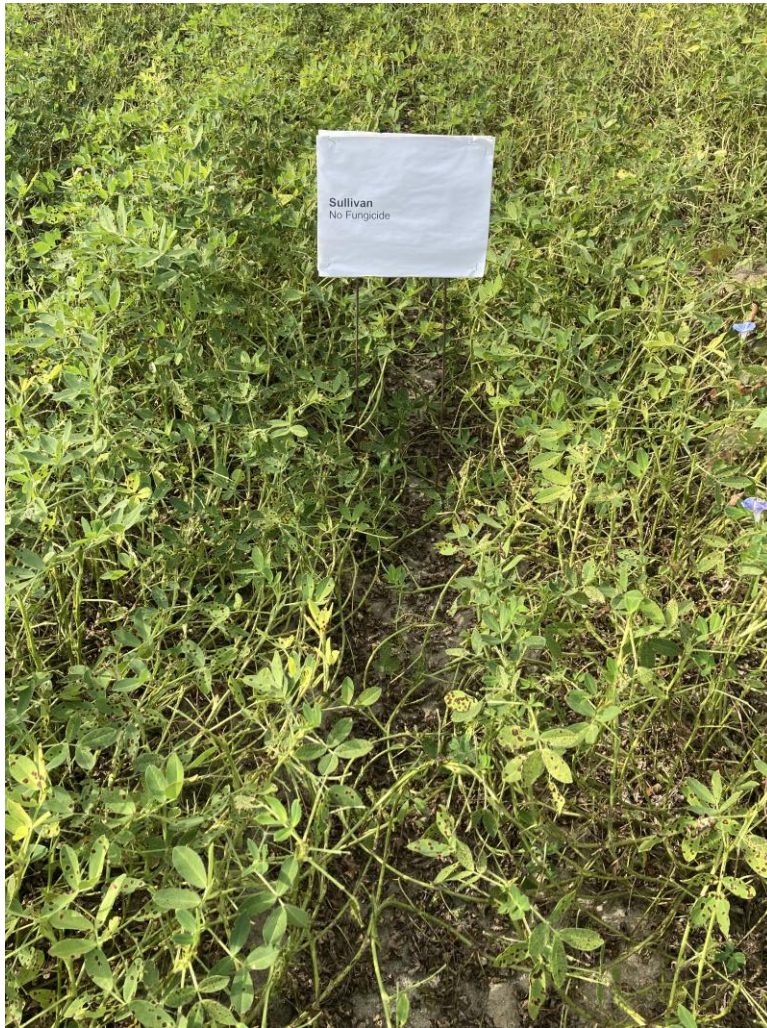




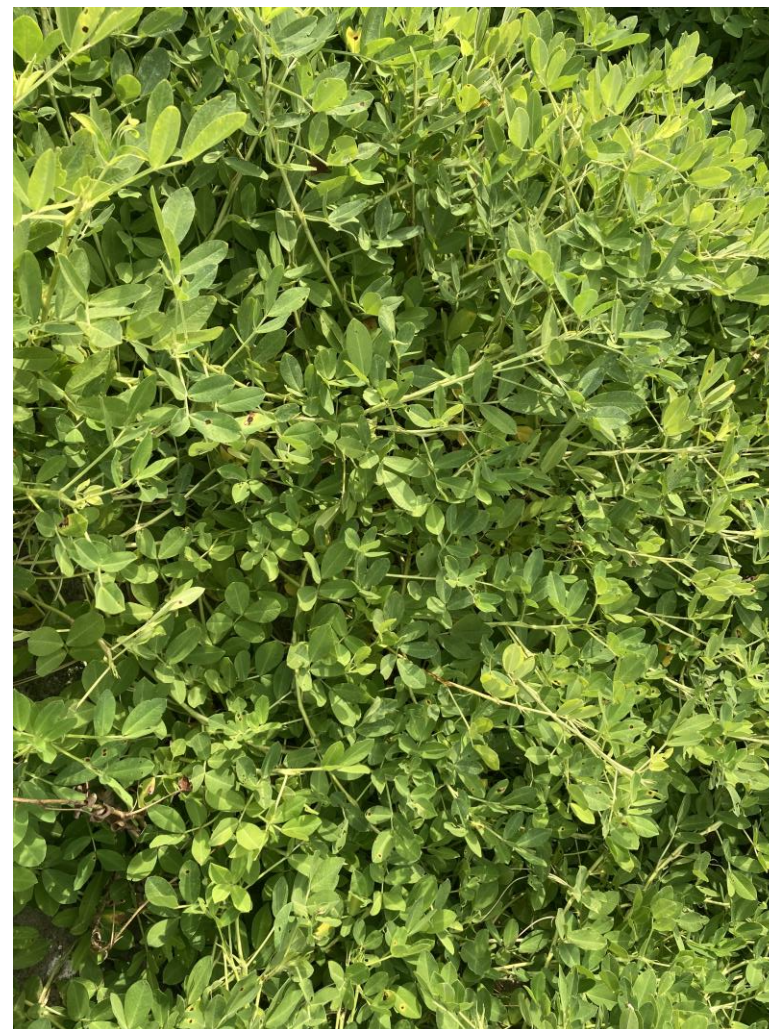
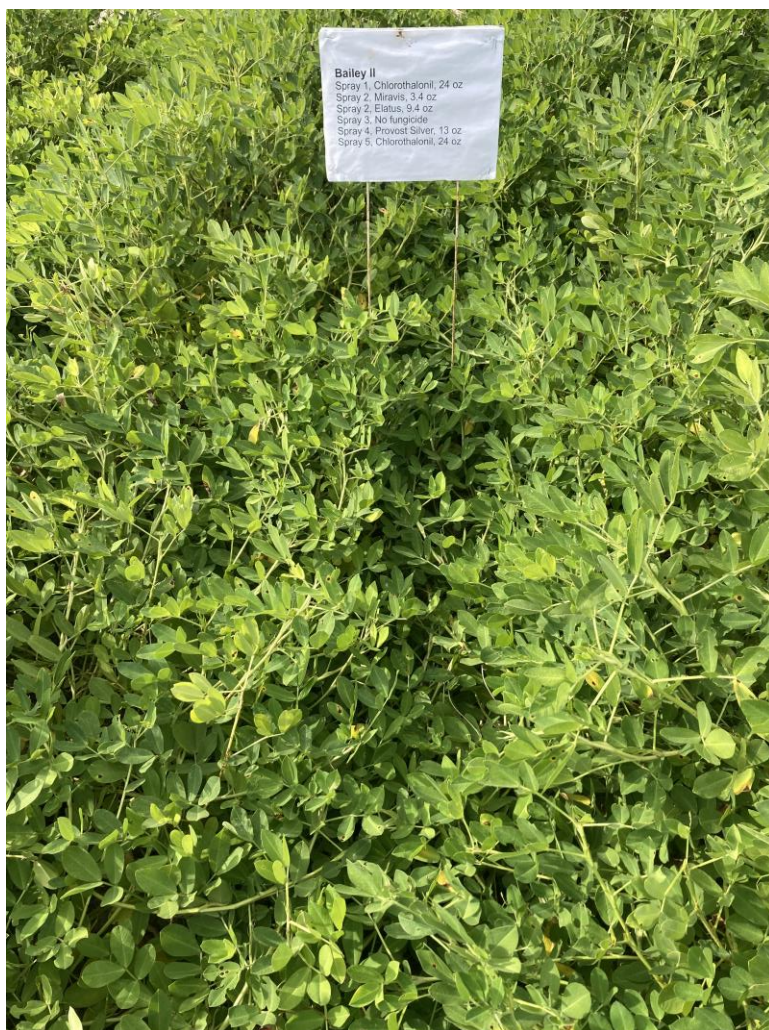








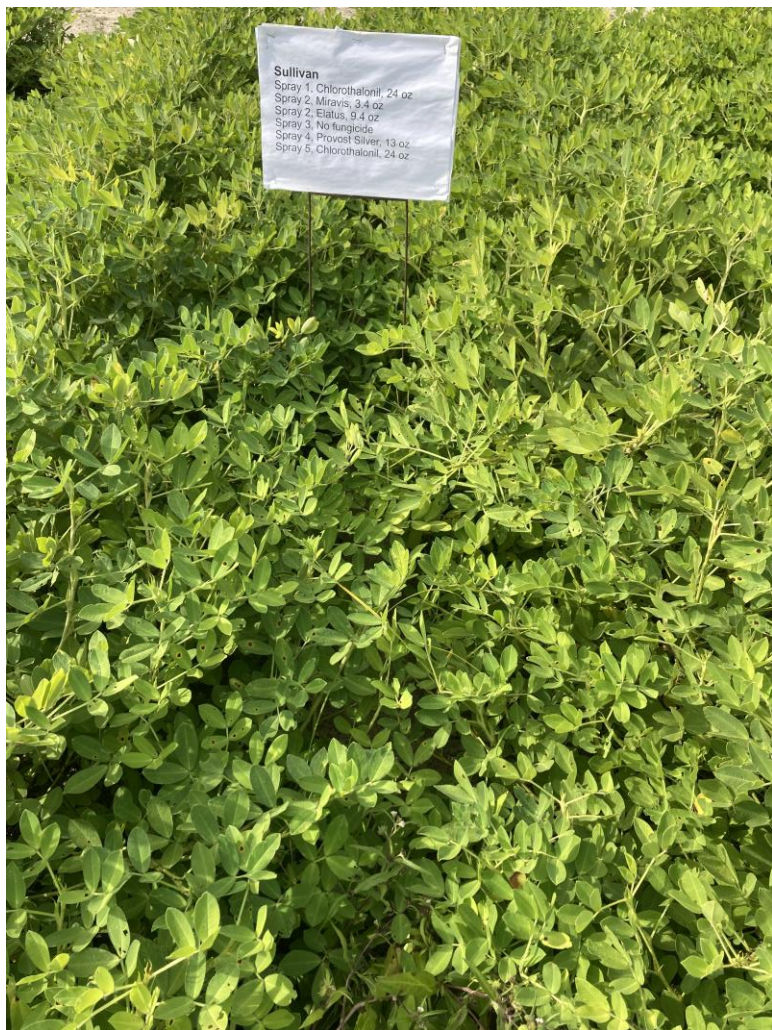




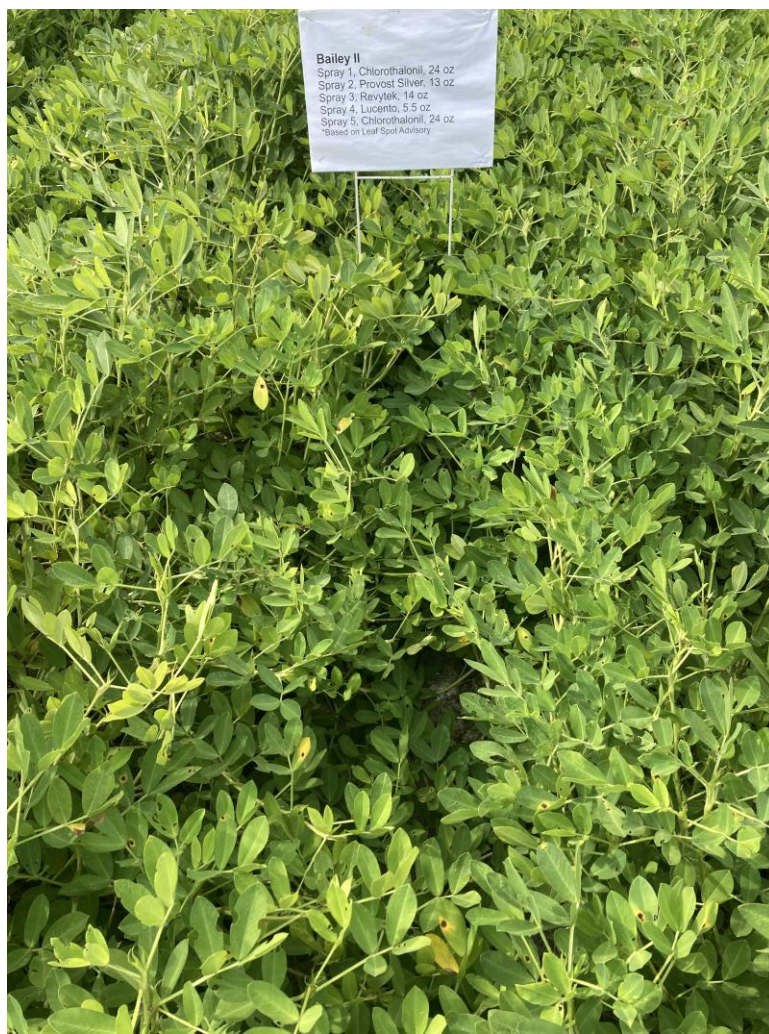




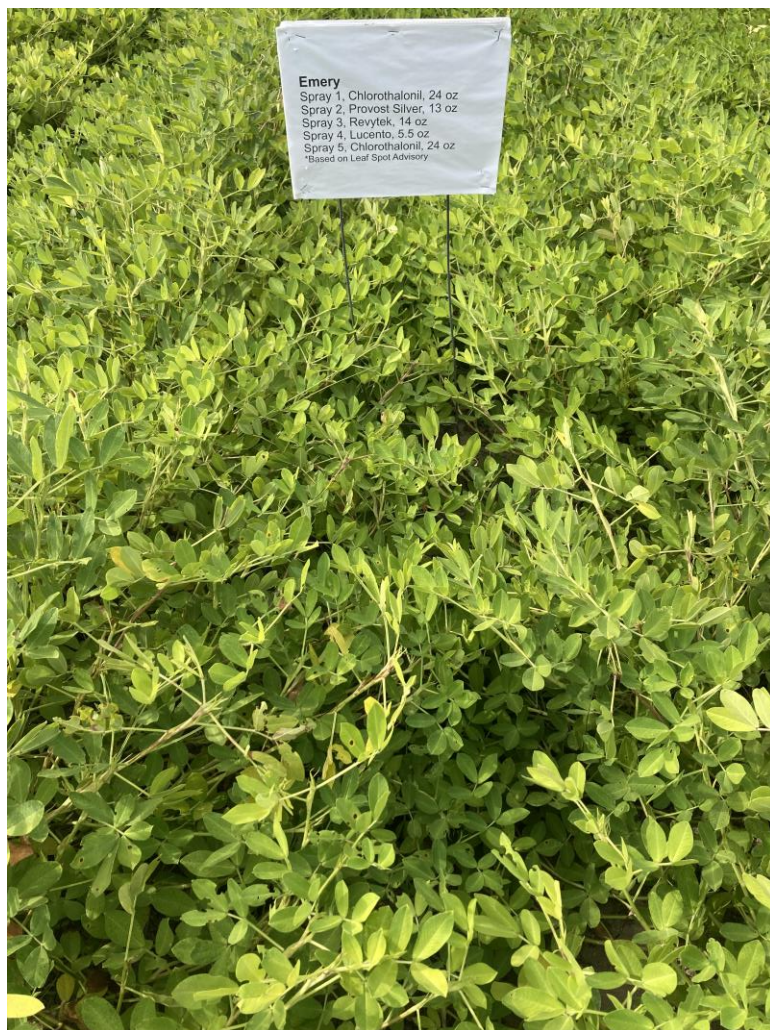




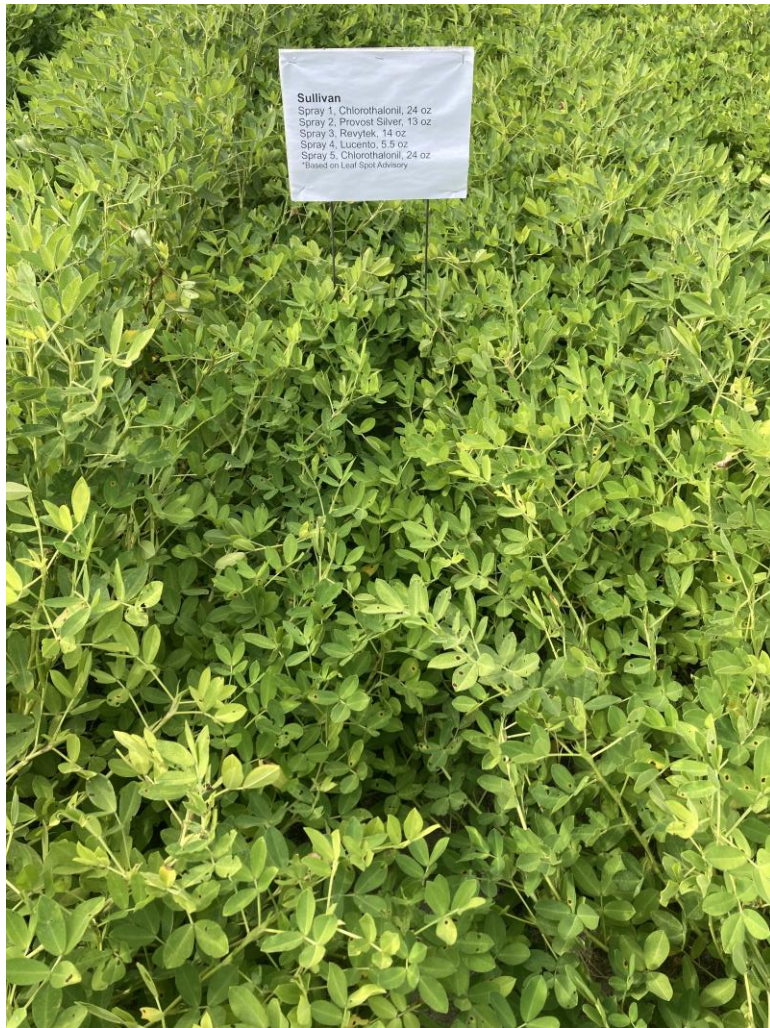




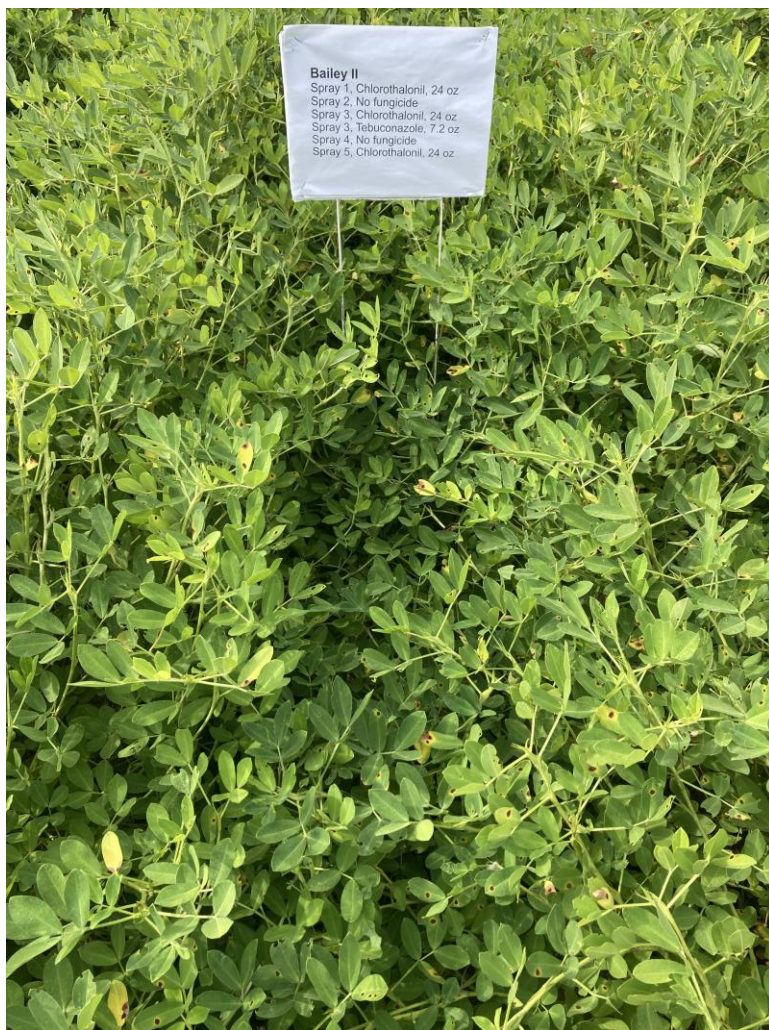




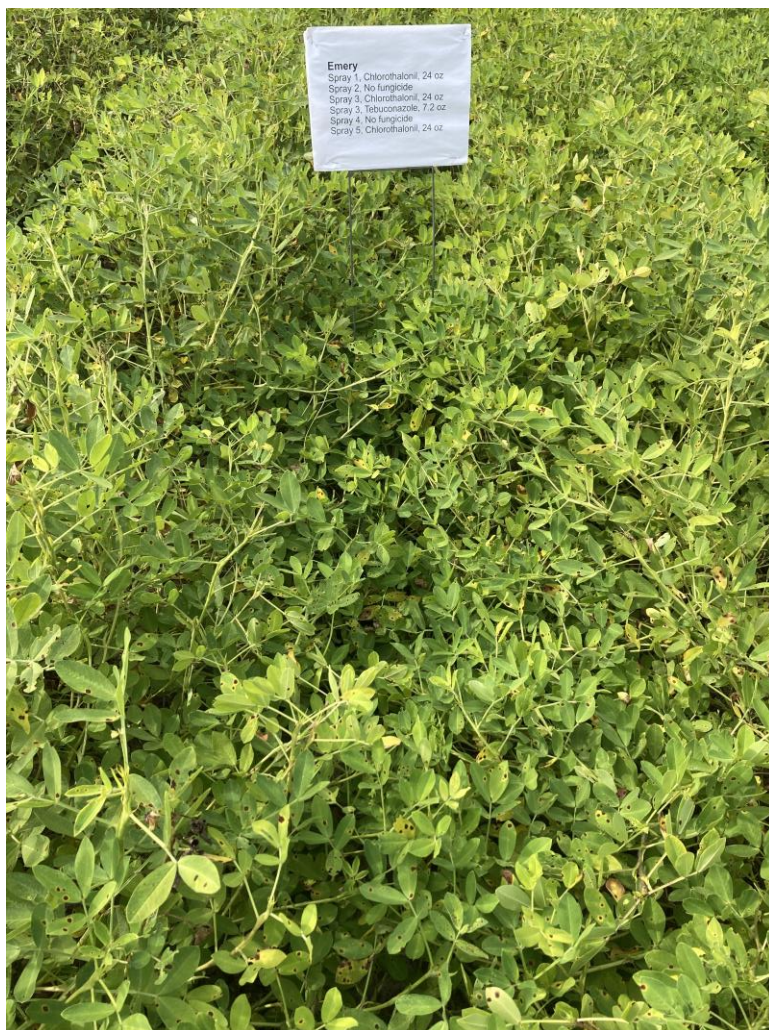




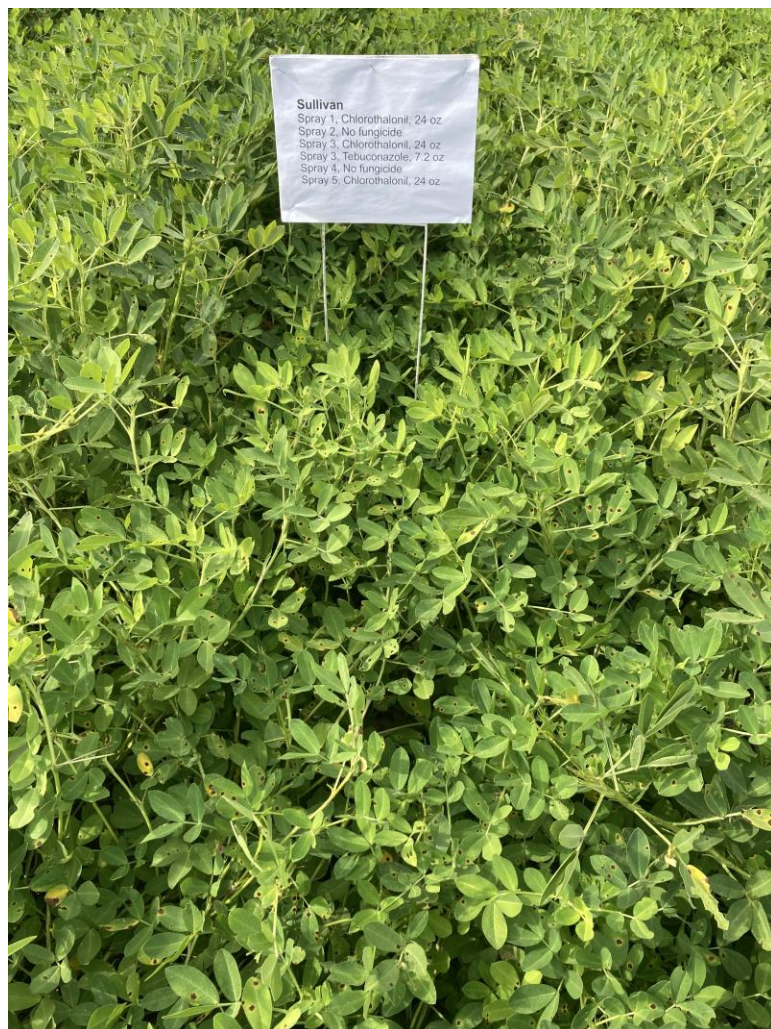




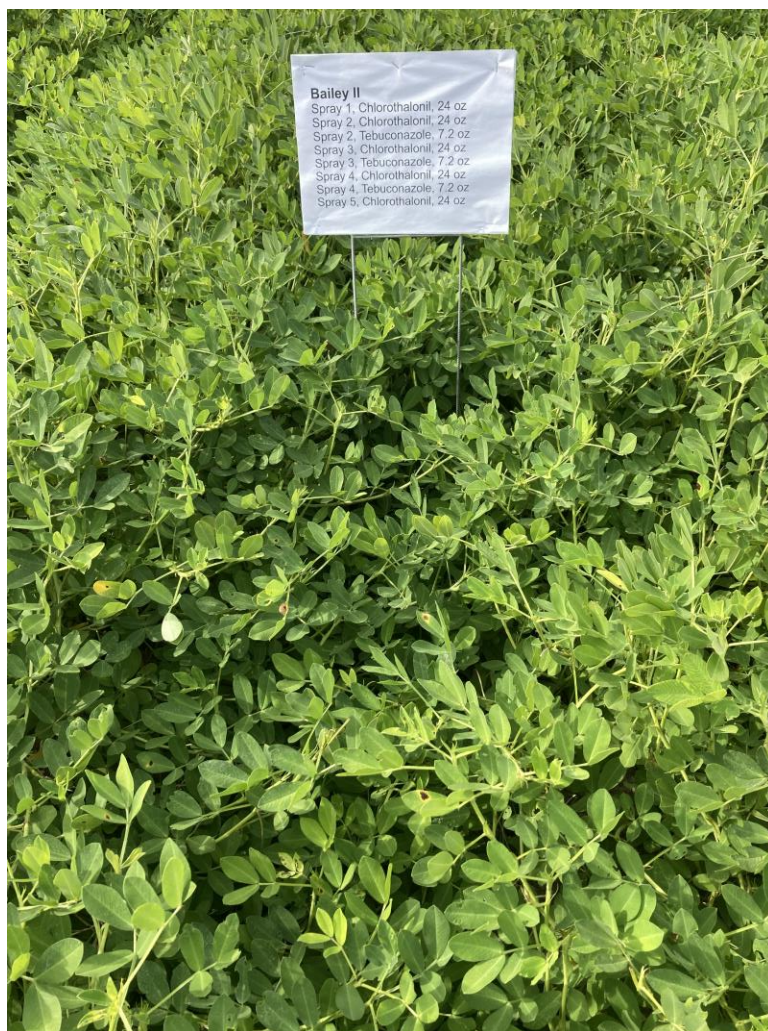














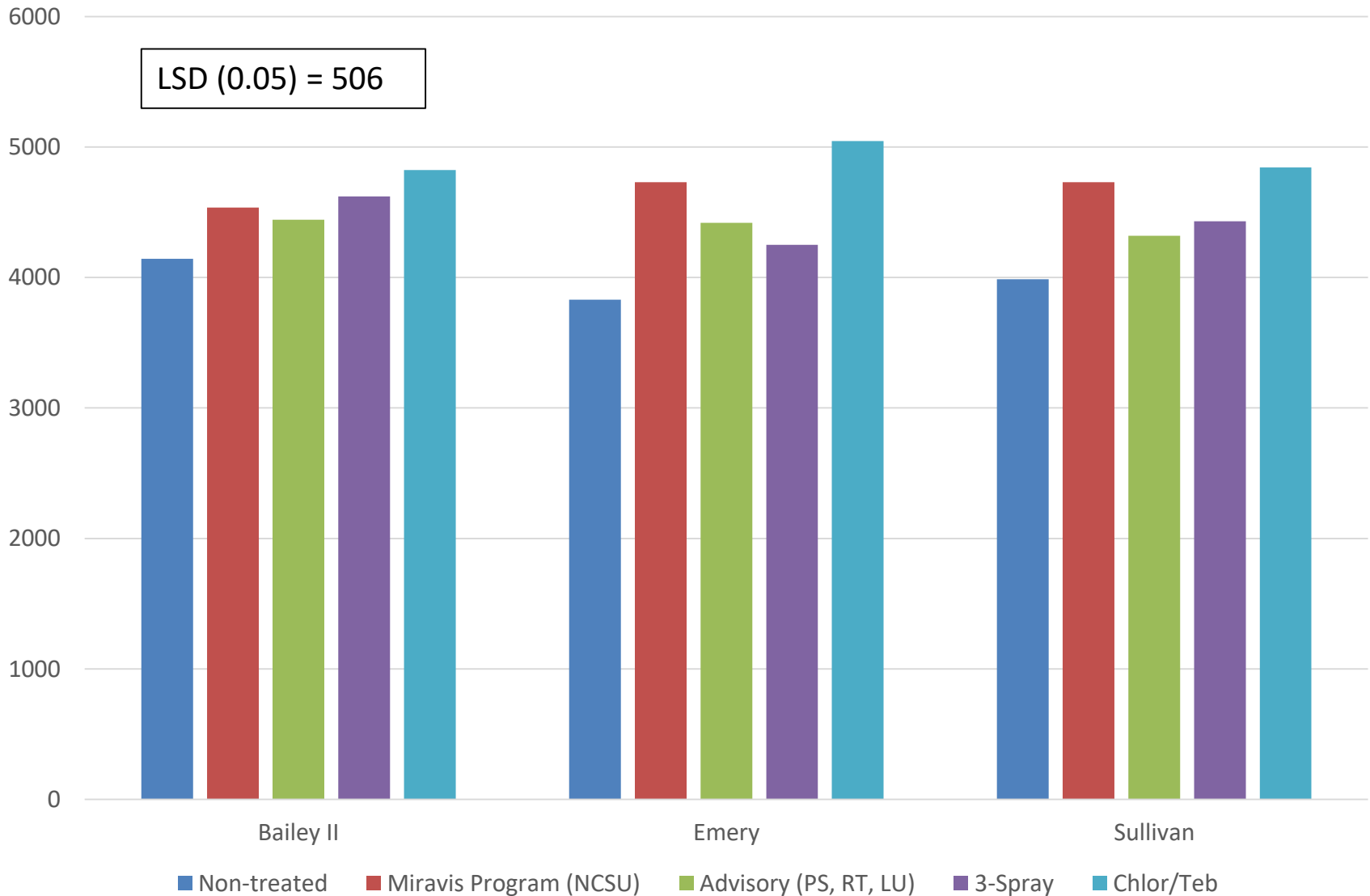






## Peanut Yield (pounds per acre) with Fungicides and Varieties

Data are pooled over three locations in 2021



# Summary

- Emery was more susceptible to leaf spot than Bailey II or Sullivan – Bailey II was less susceptible than Sullivan
- Miravis program (NCSU) and Advisory program (Provost Silver, Revytek, Lucento) did well
- Chlorothalonil plus tebuconazole did really well (possible issues with this program include flaring spider mites and Sclerotinia blight with this much chlorothalonil **and** the 14-day interval needs to be tight – but the cost is great)