

NC STATE

Suppression of Sclerotinia with Co-Application of Pydifluentofen, Azoxystrobin, and Benzovindiflupyr in North Carolina

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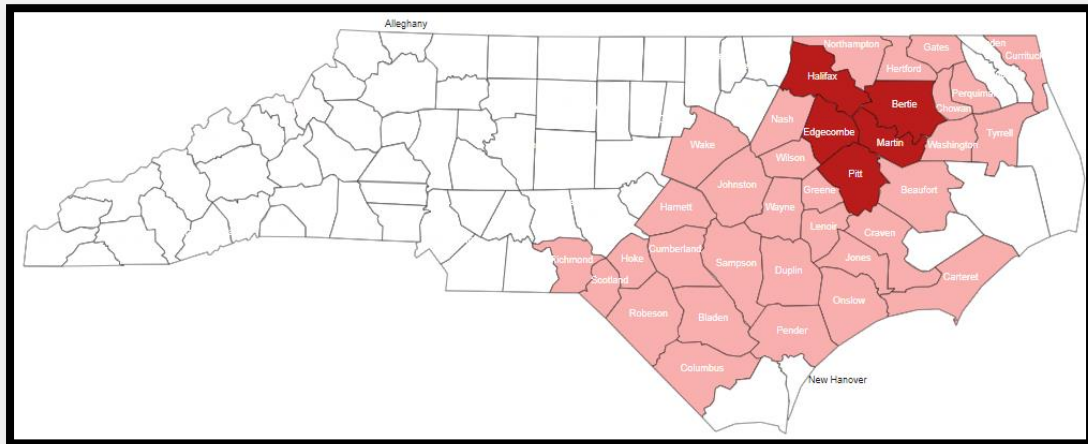


Outline

- Introduction
 - Peanut Production in North Carolina
 - 2023 Growing Season in North Carolina
- Objectives
- Materials and Methods
- Results and Discussion

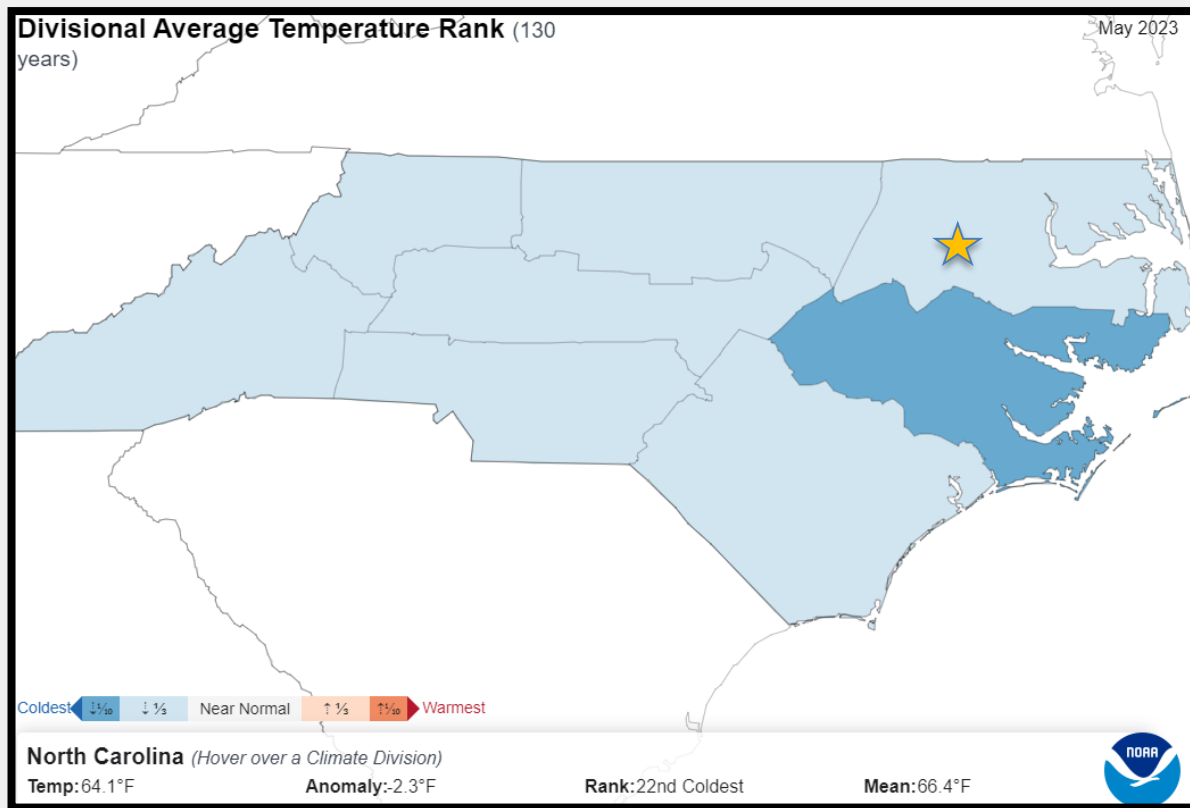
2023 Peanut Production in North Carolina

- Planted Acres: 124,000 acres
 - 97%: Virginia-type
 - 2.8%: Runner-type
 - <1%: Valencia

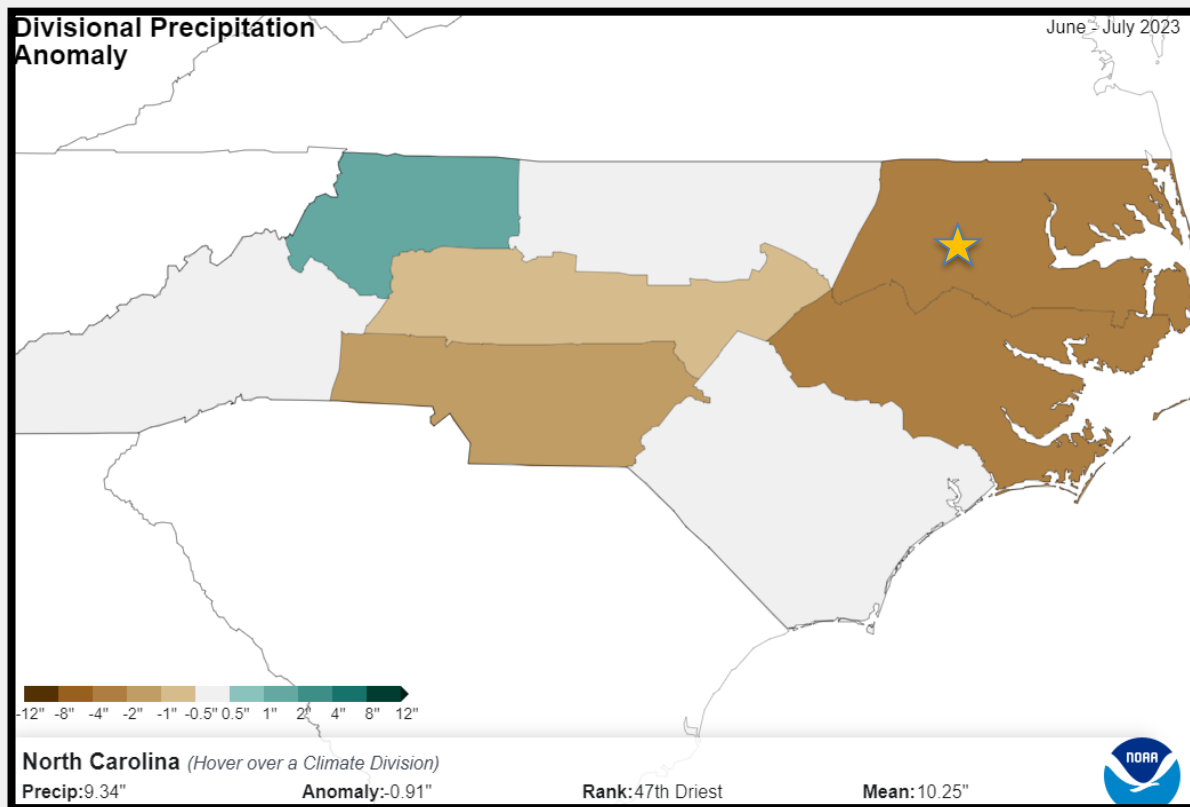


2023 Growing Season

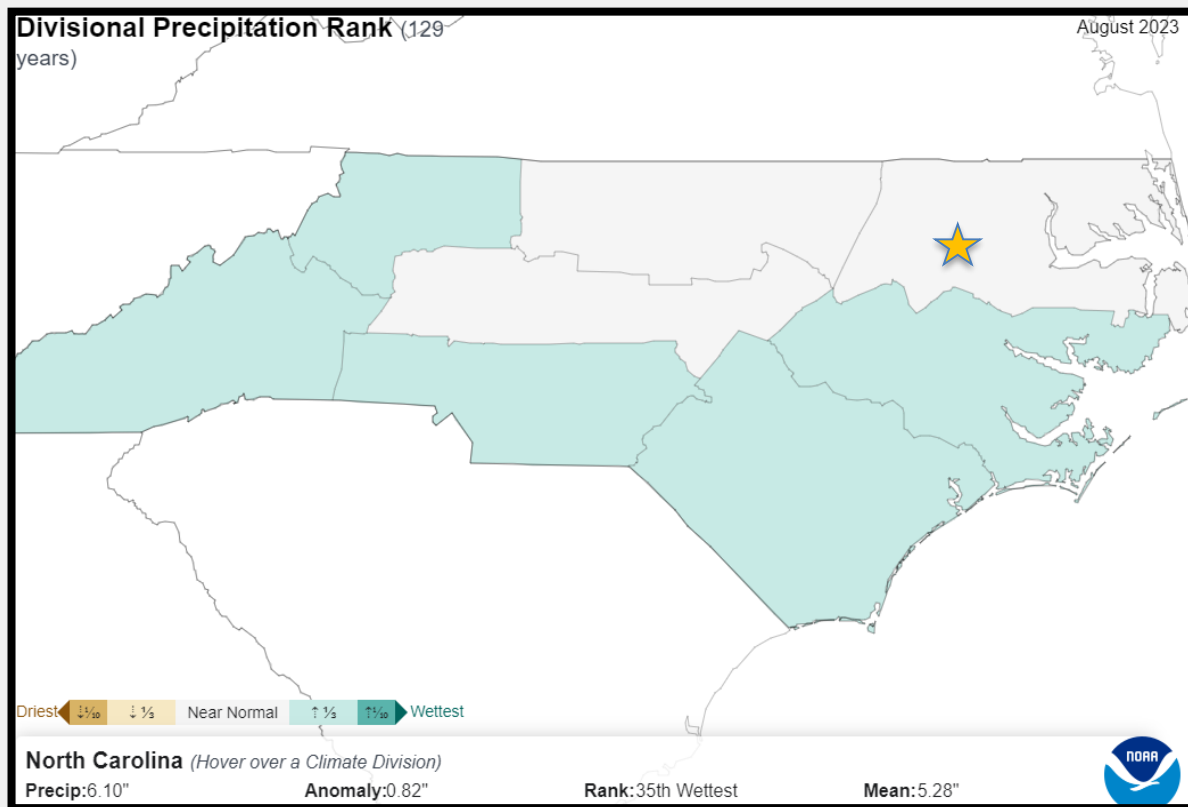
Cool Temperatures in Late May and Early June



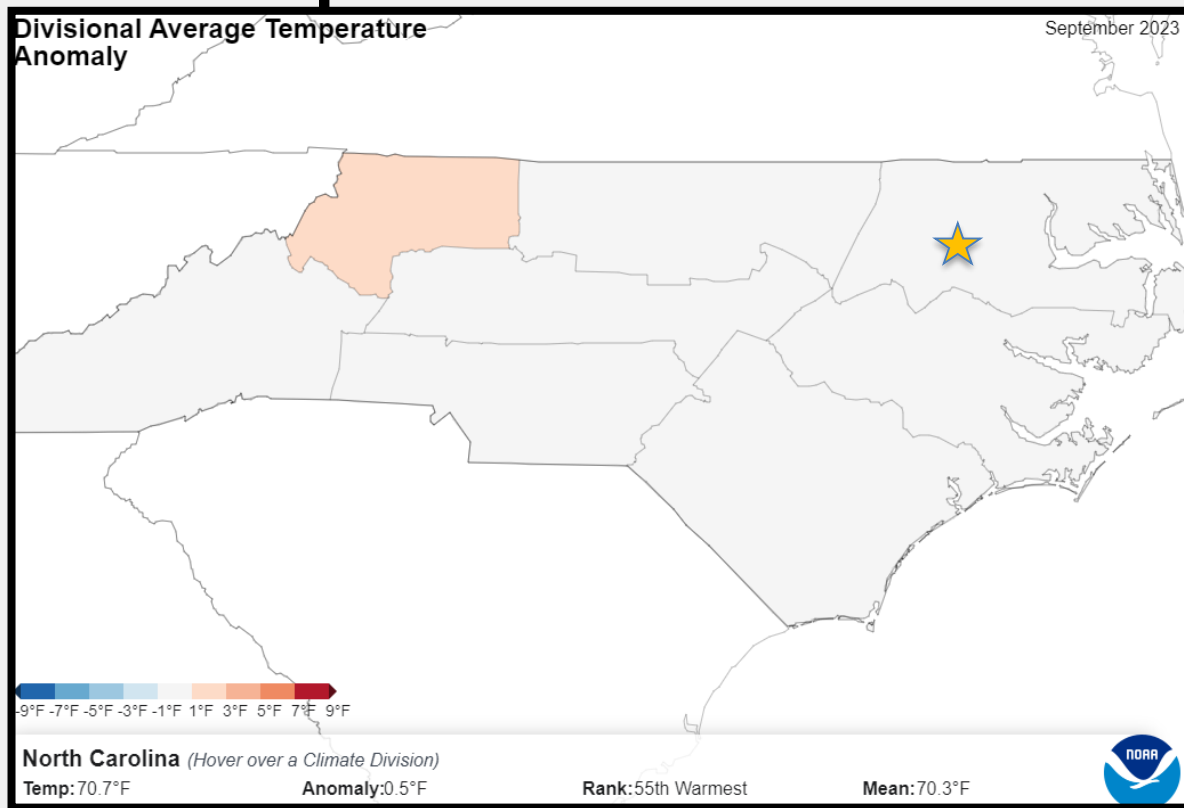
Very Little Rain in June and July

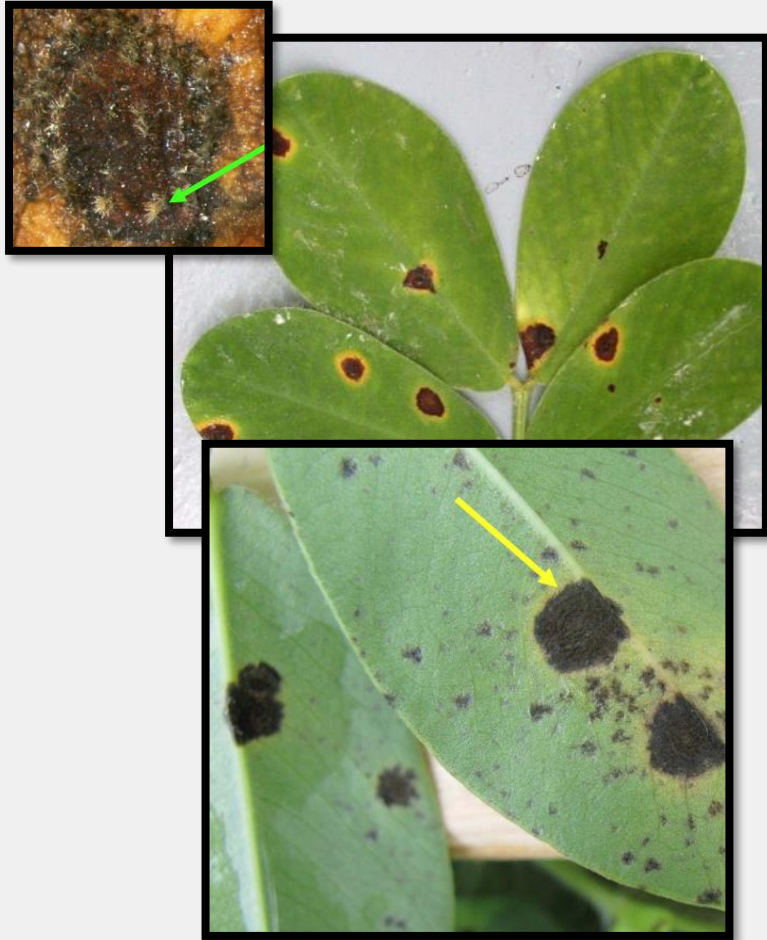


Adequate Rain in August



Cool Temperatures and Rain in September and October



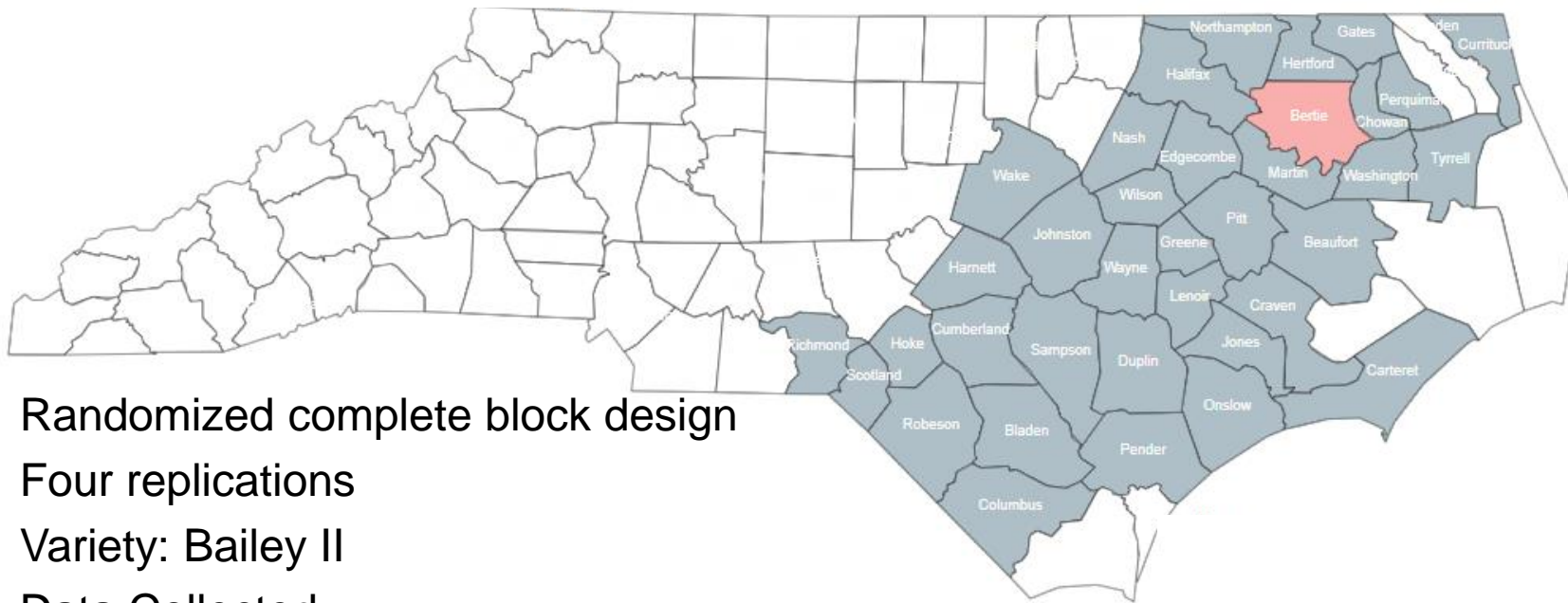


(Dr. David Jordan & Dr. Barbara Shew)



Objective

Evaluate the efficacy of the tank mix, Pydiflumetofen (Miravis®) and Azoxystrobin+Benzovindiflupyr (Elatus®) at different timings within peanut fungicide programs.



- Randomized complete block design
- Four replications
- Variety: Bailey II
- Data Collected:
 - Leaf spot incidence and defoliation(%)
 - Sclerotinia blight hits (per 60 ft)
 - Yield (lbs/ac)

Sclerotinia Blight and Leaf Spot Response to Fungicide Programs

Abbreviations:

B = Bravo

M = Miravis

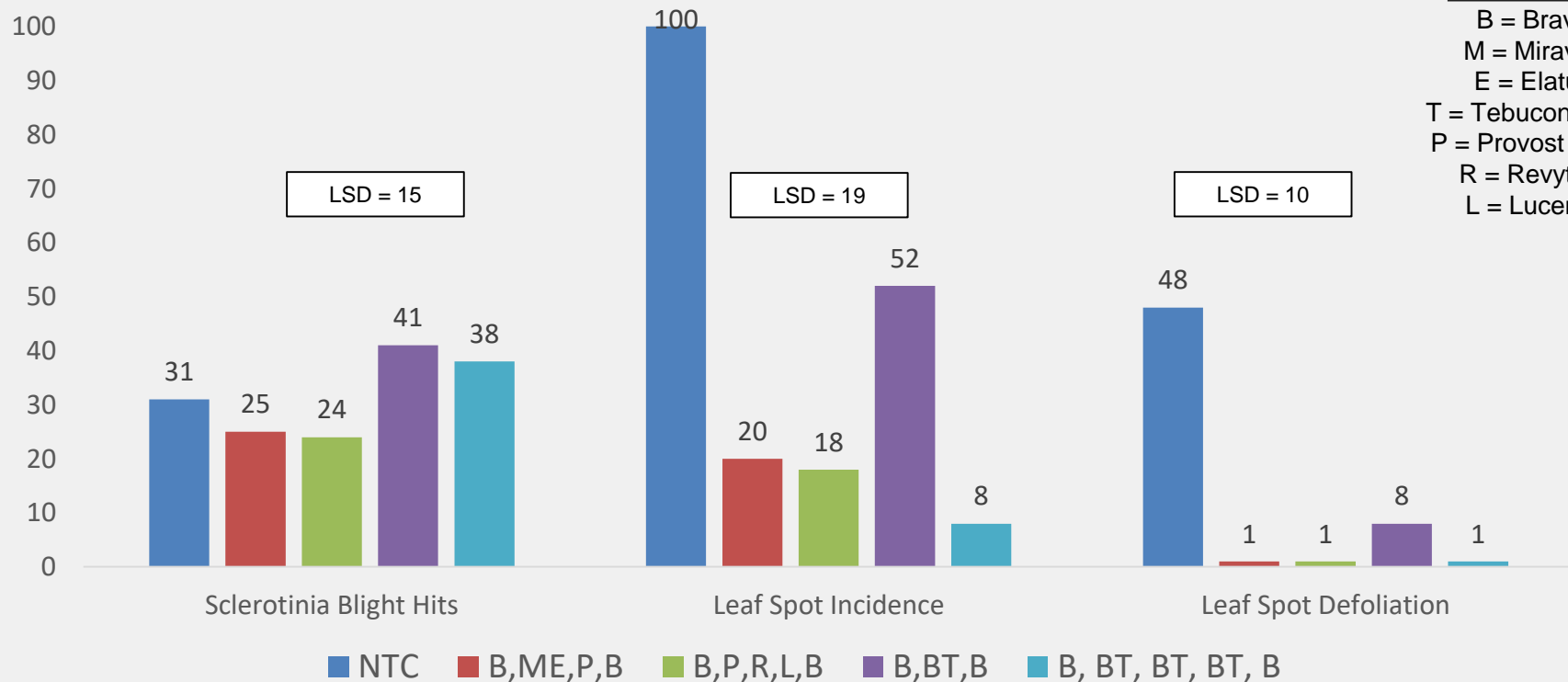
E = Elatus

T = Tebuconazole

P = Provost Silver

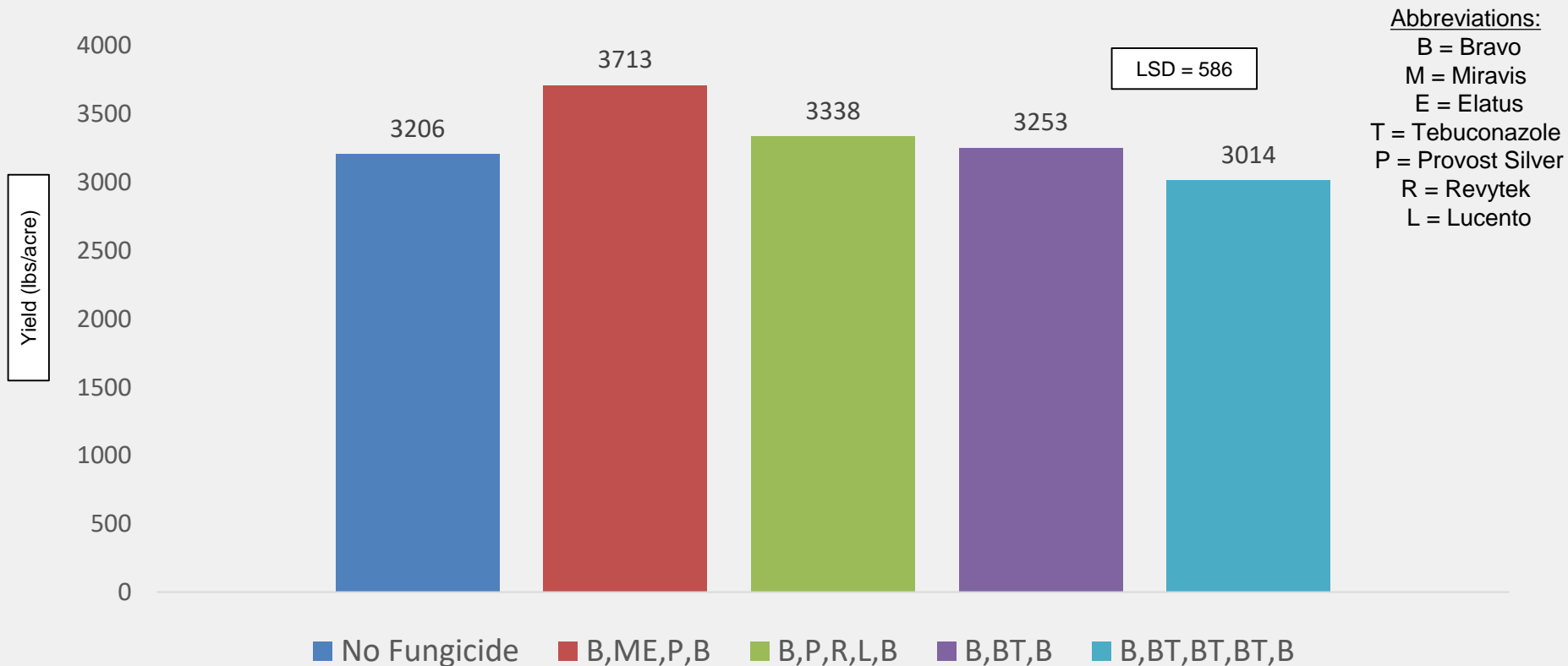
R = Revytek

L = Lucento

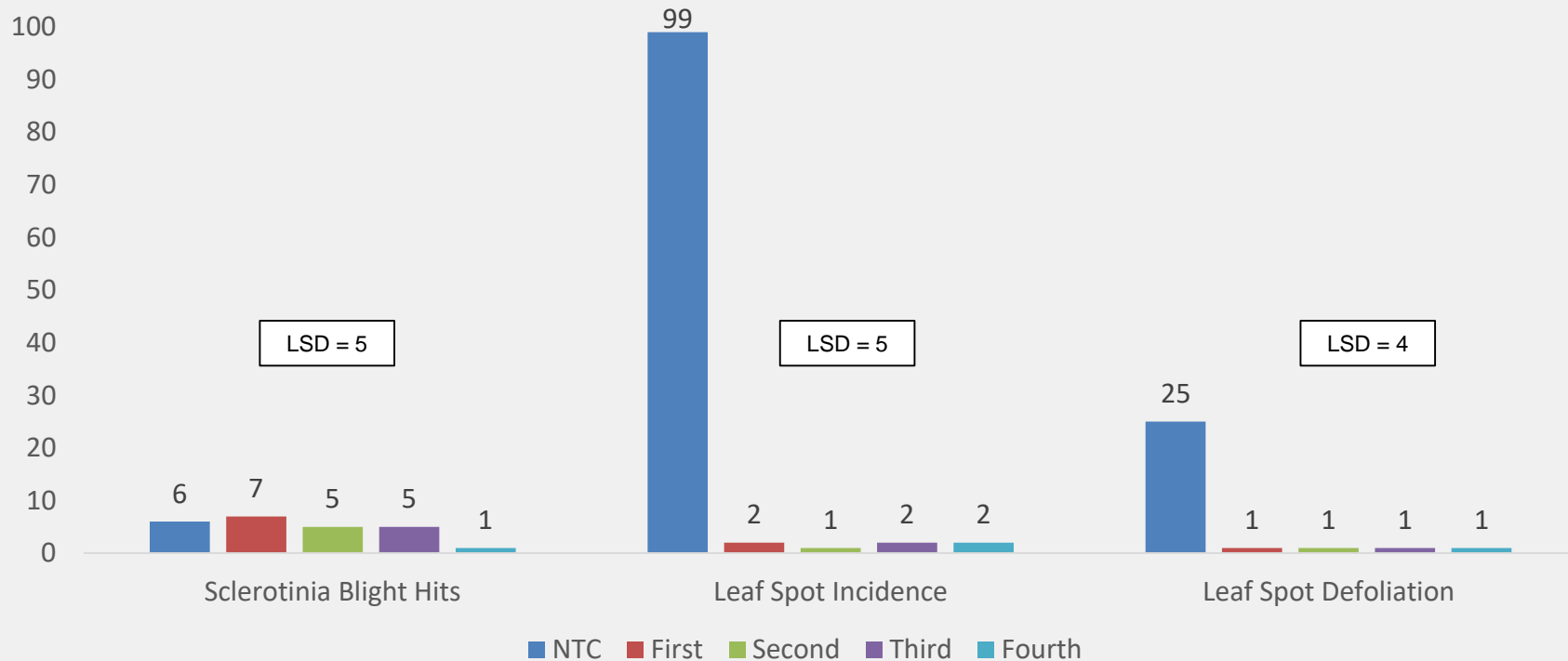


Percent (Leaf Spot) or Hits per 60 Feet (Sclerotinia Blight)

Peanut Yield Response to Fungicide Programs

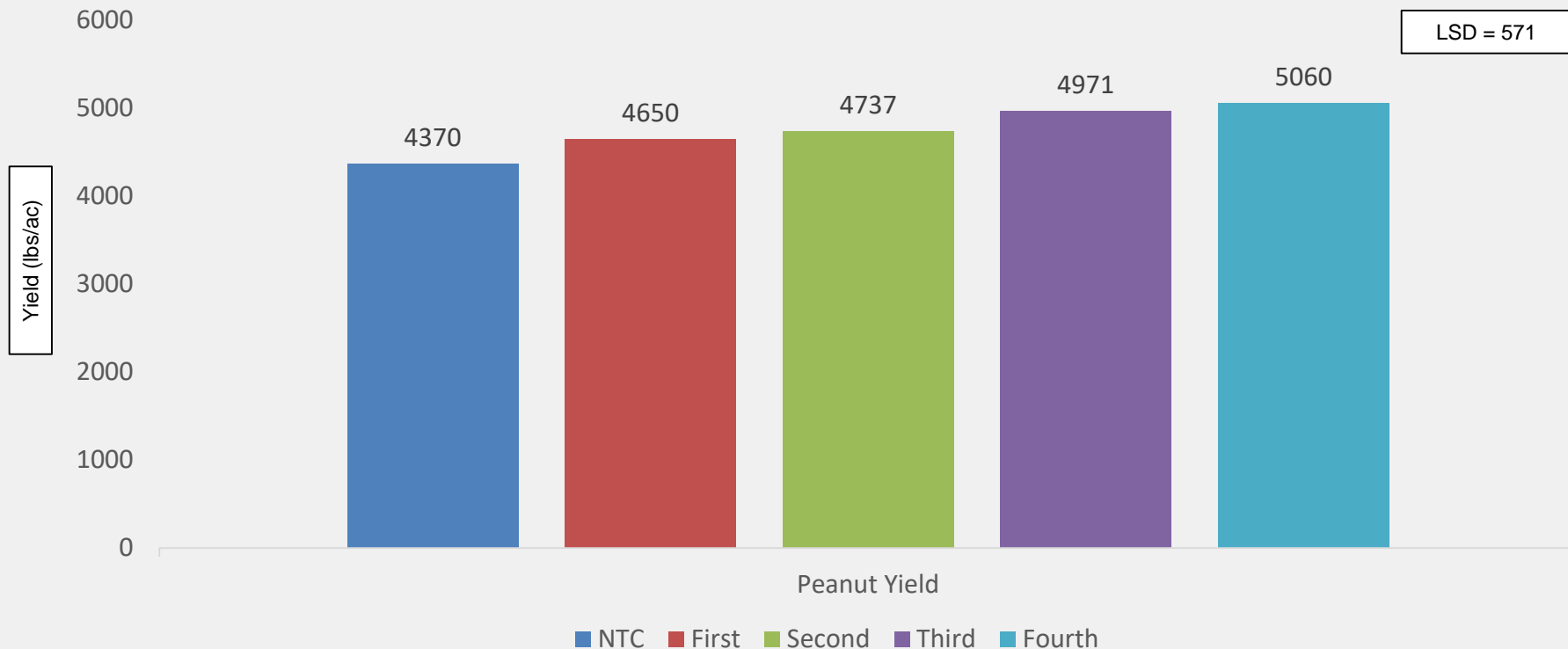


Sclerotinia Blight & Leaf Spot Response to Timing of a Single Miravis+Elatus Application



Percent (Leaf Spot) or Hits per 60 Feet (Sclerotinia Blight)

Peanut Yield Response to Timing of a Single Miravis+Elatus Spray



Summary

- High Sclerotinia blight pressure
- Multiple applications of chlorothalonil can increase Sclerotinia blight pressure
- The tank mix of Miravis + Elatus suppressed Sclerotinia blight and protected yield the most in the third and fourth spots within a fungicide program

Acknowledgements

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- NC Peanut Growers Association

