

Developing a fungicide game plan for *Glomerella* leaf spot and fruit rot

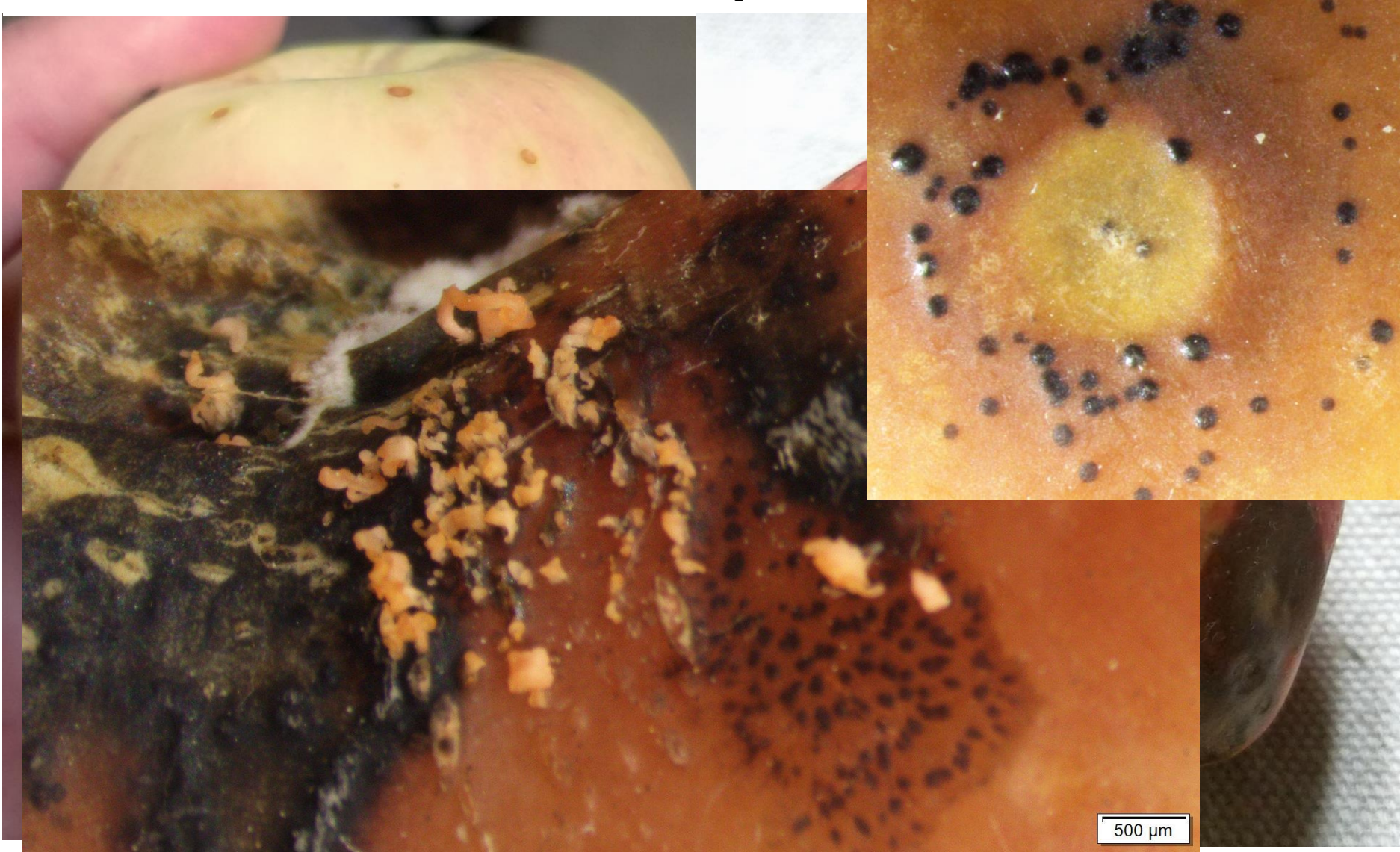


Sara Villani, Kendall Johnson, Rachel Kreis, and Cody Justus
North Carolina State University
Department of Entomology and Plant Pathology

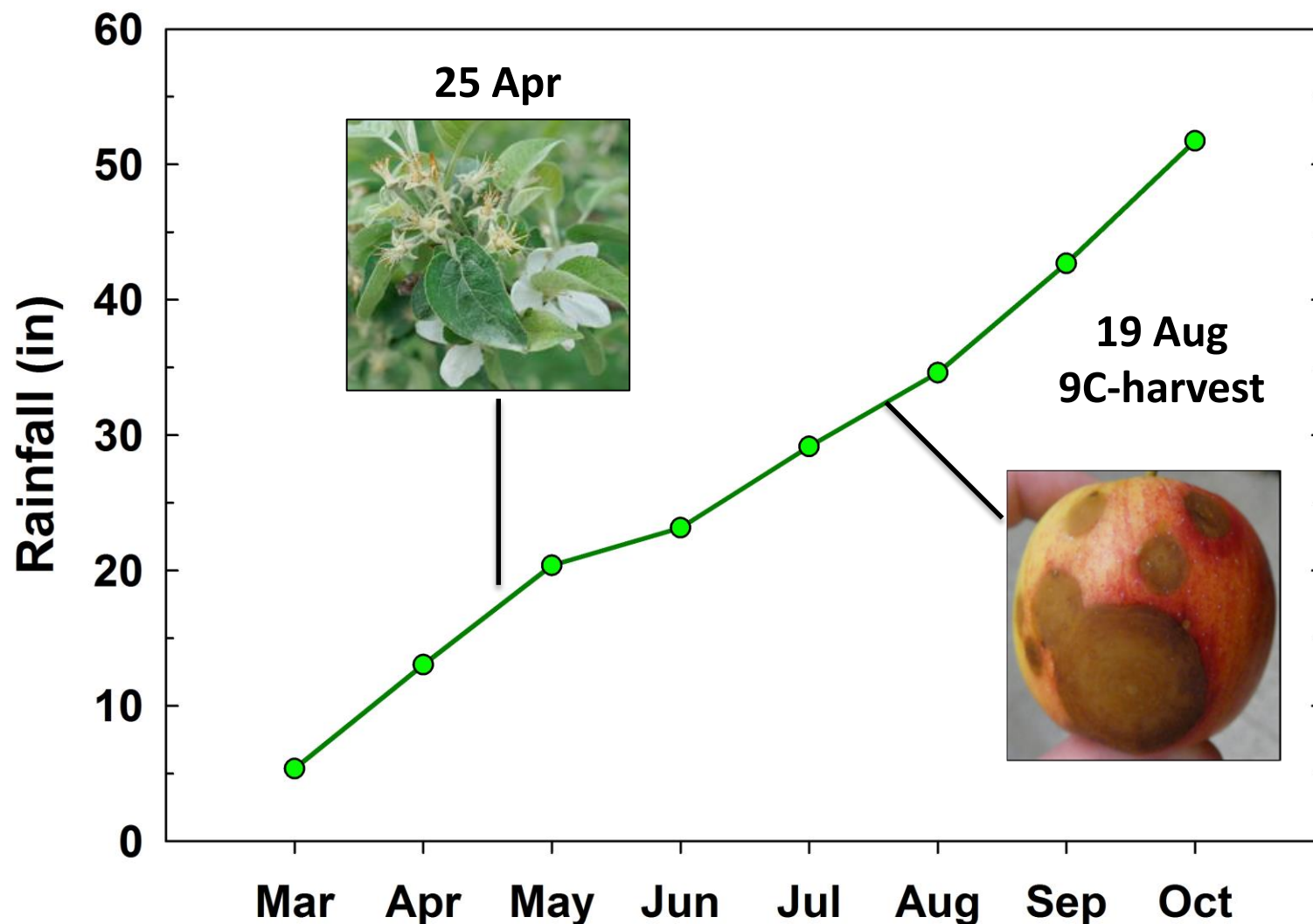
Glomerella leaf spot and fruit rot



Glomerella leaf spot and fruit rot

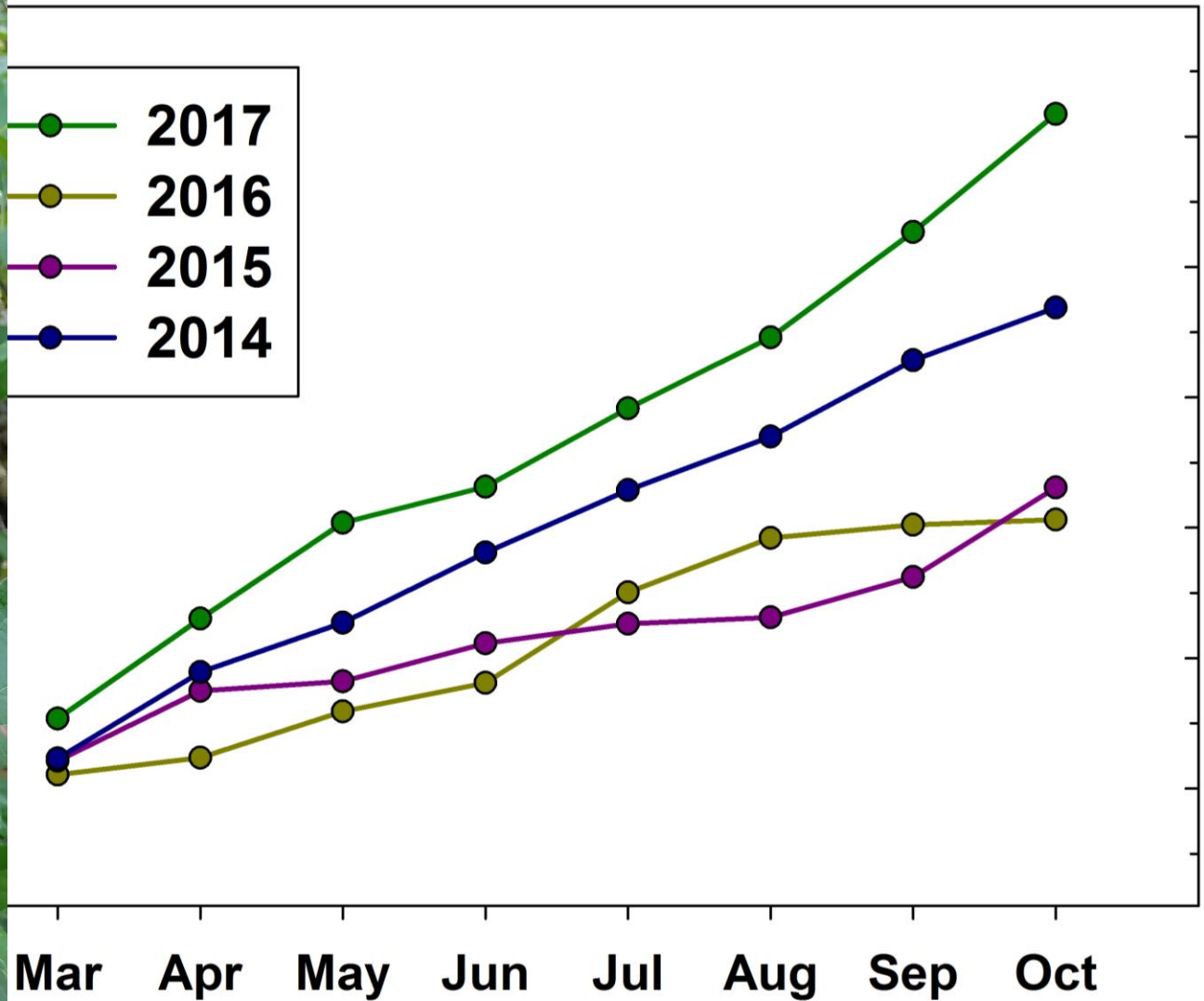


2017 Glomerella leaf spot and fruit rot in NC



> 5 inches rain every month except June

Merella leaf spot and fruit rot in NC

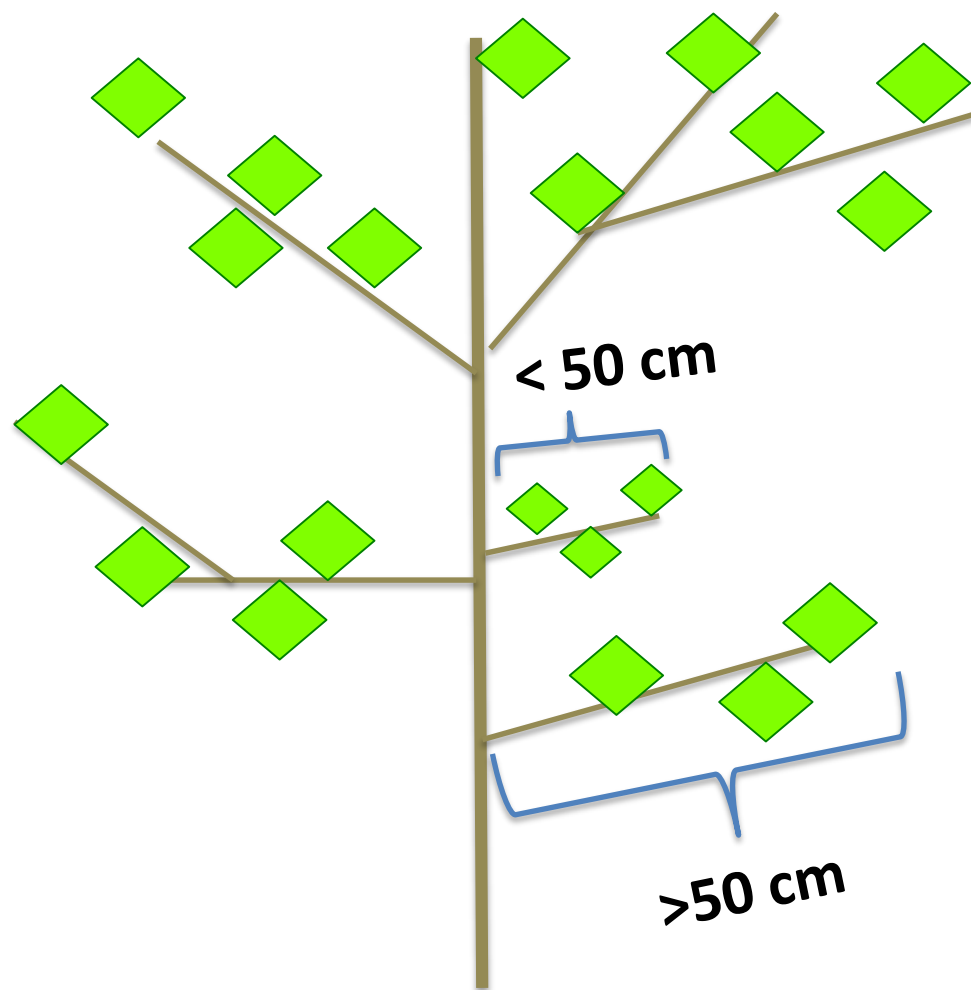


Problem: 'One size fits all' fungicide program for summer disease, 8+ QoI applications/season

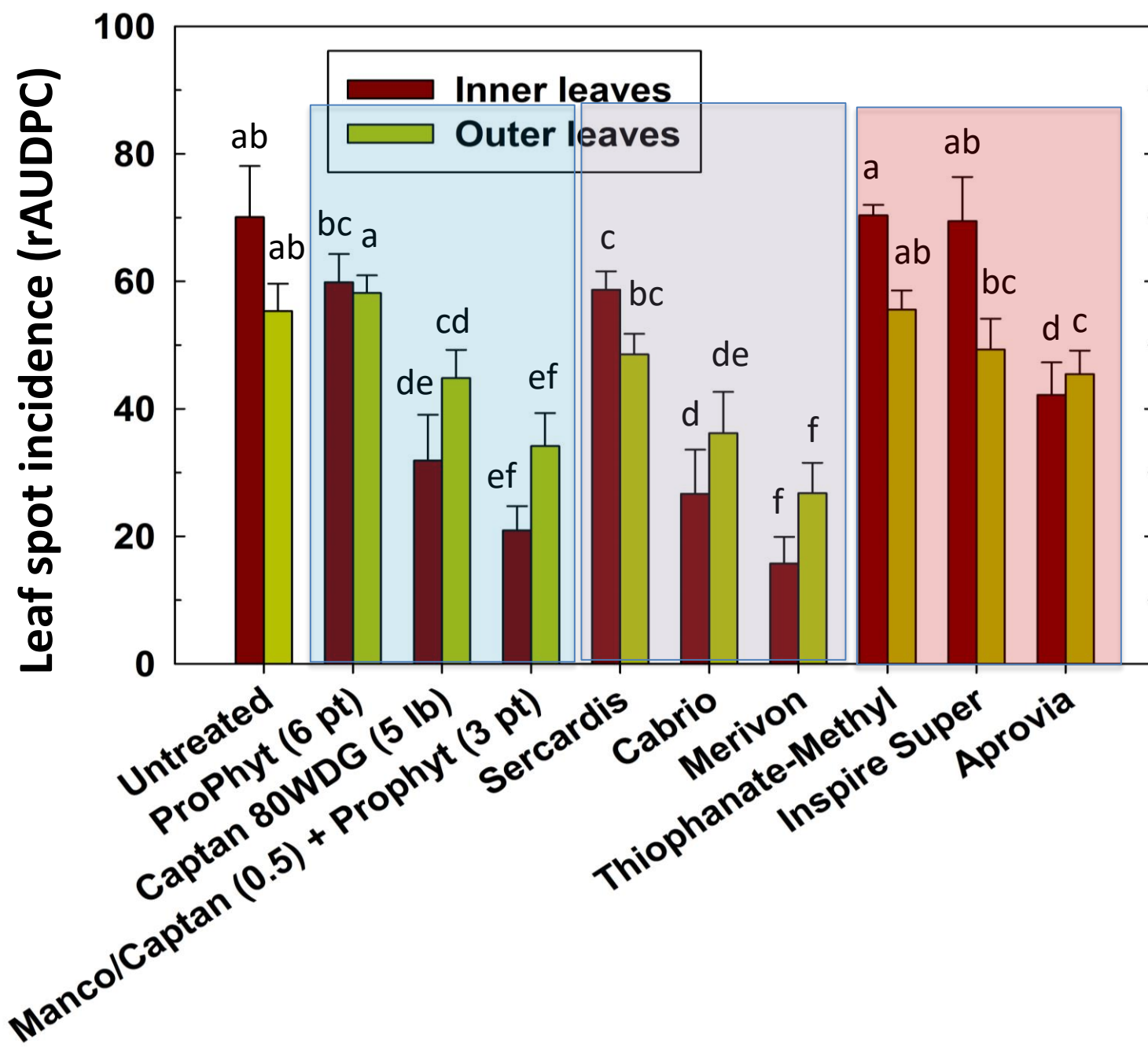
Glomerella Field Trial Objectives

1. Determine which fungicide groups/chemistries exhibit the greatest efficacy against *Glomerella* leaf spot and fruit rot
2. Determine the most effective timings for the formulated pre-mixed product, Merivon (fluxapyroxad + pyraclostrobin) for post harvest *Glomerella* fruit rot management

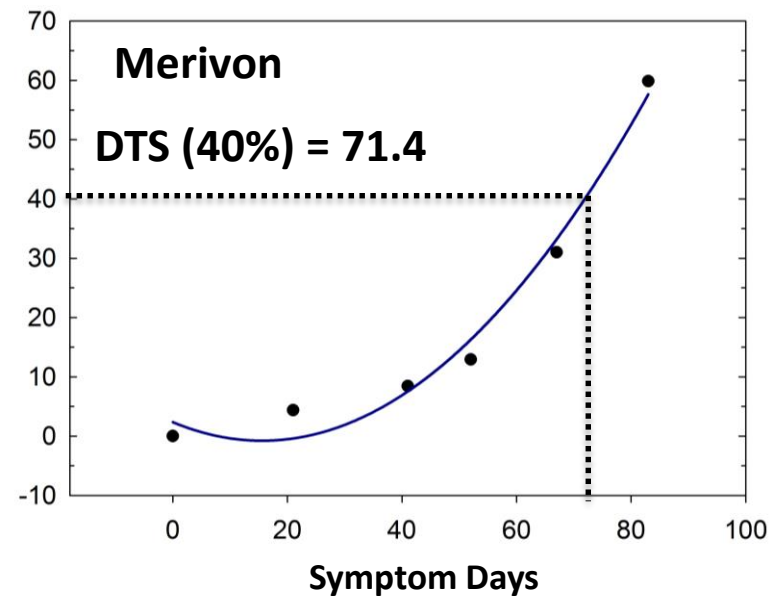
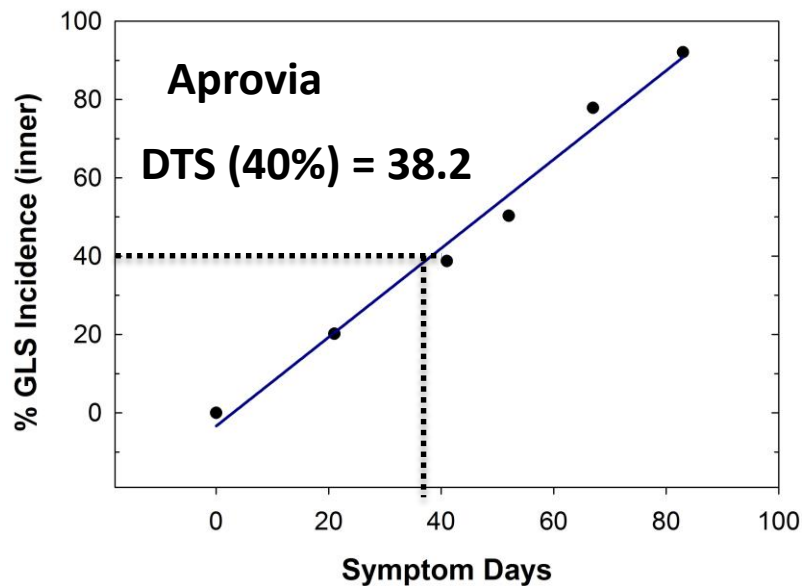
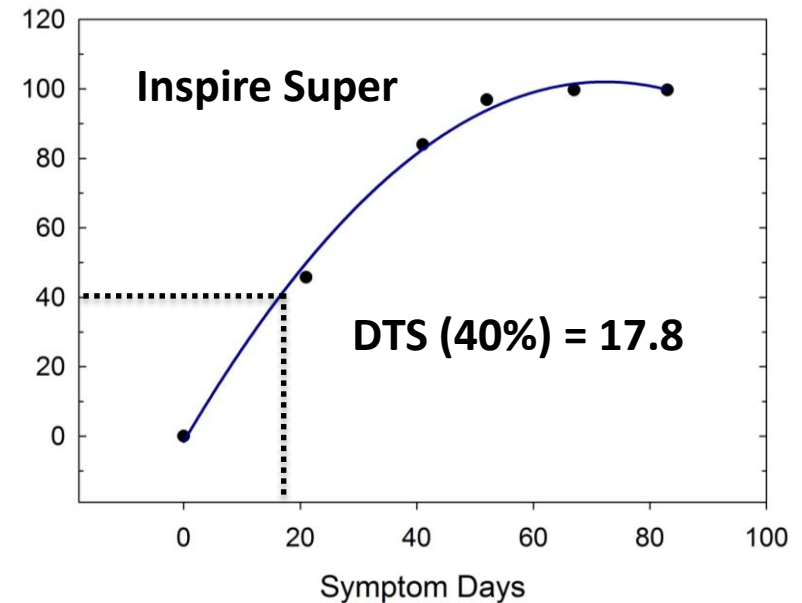
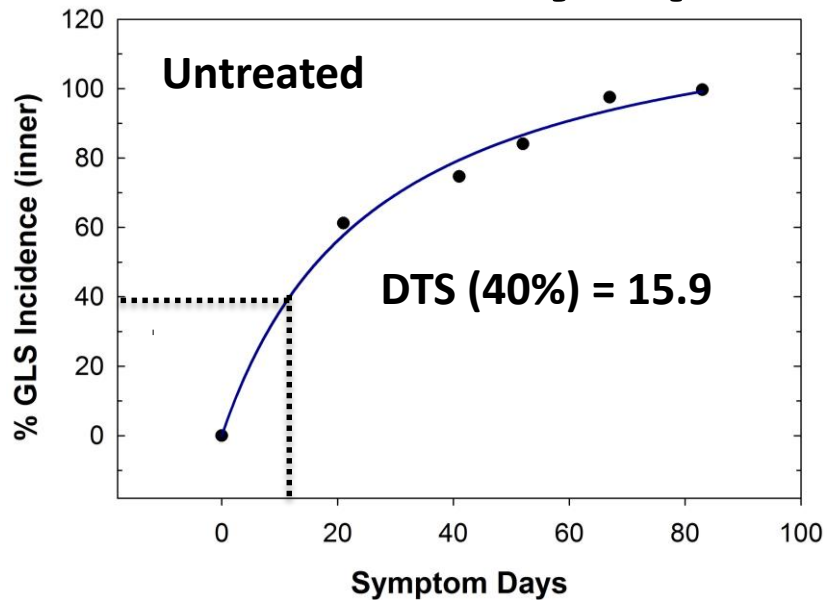
Glomerella Field Trial Design



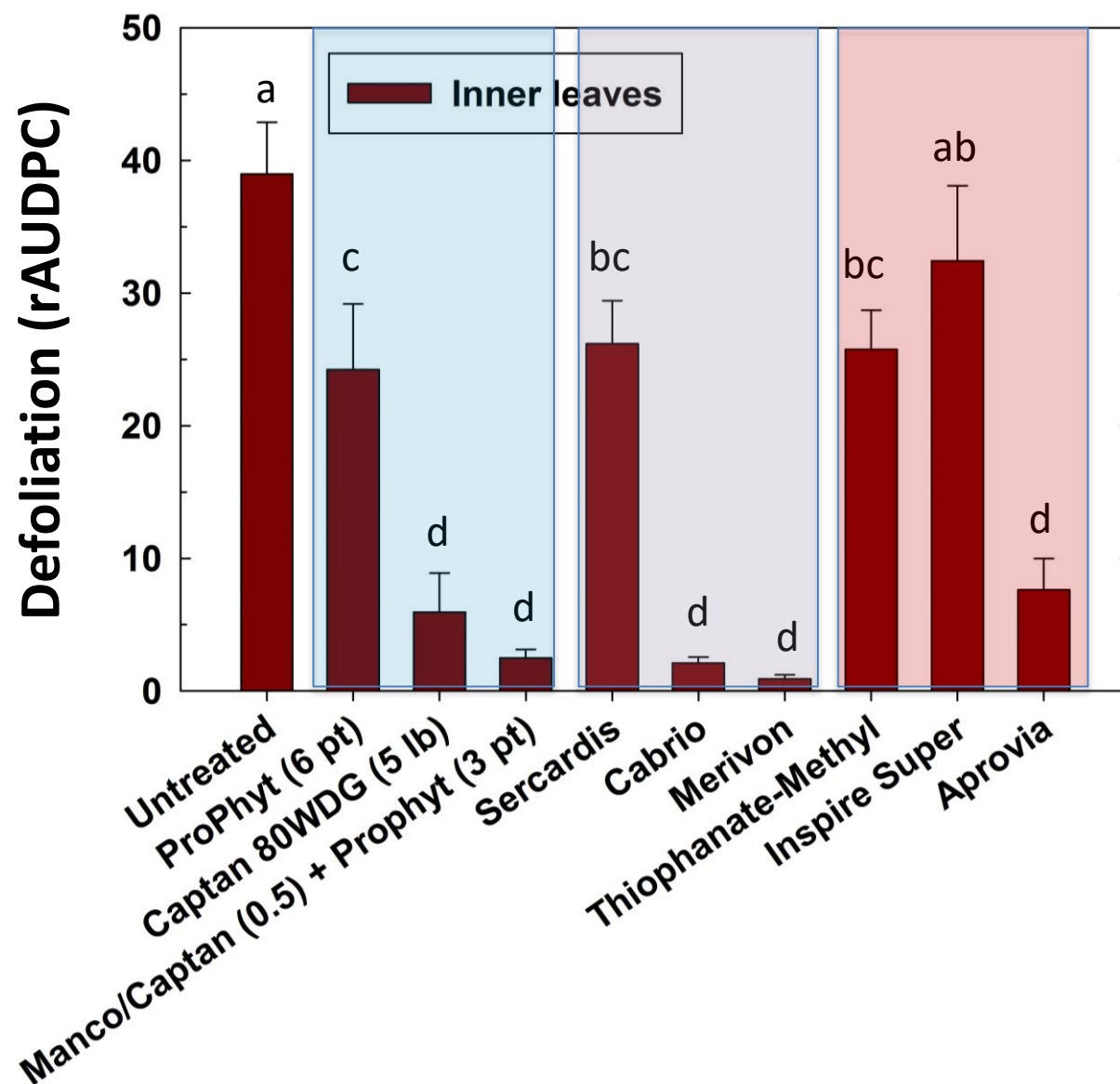
- 'Tenroy Gala' on M7 rootstock
- PF-9C; 10-21 day intervals
- 4 single tree replicates
- 8 leaves from 10 "inner" + 10 "outer" shoots/rep
- 6 ratings 5/26-8/17



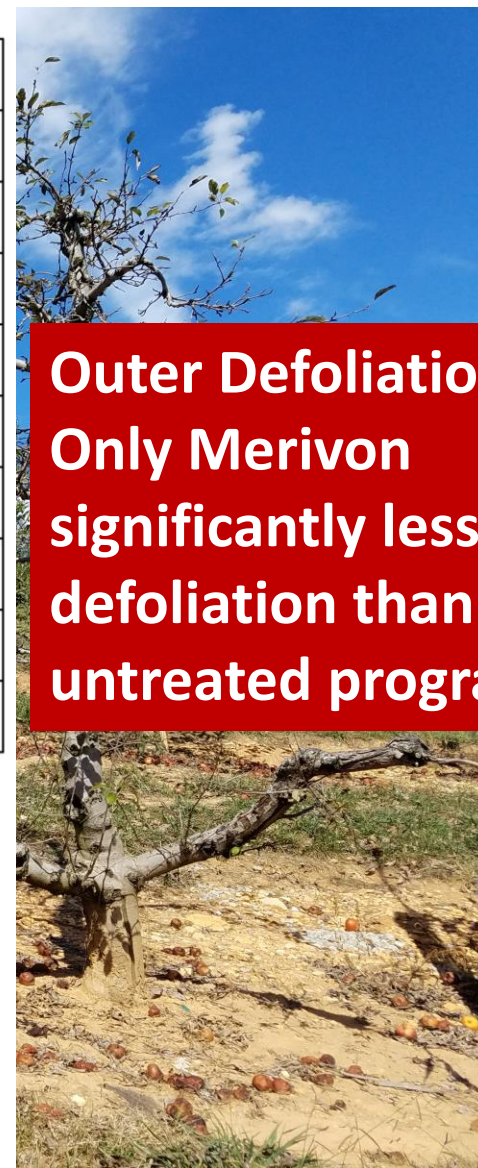
GLS Symptom Development



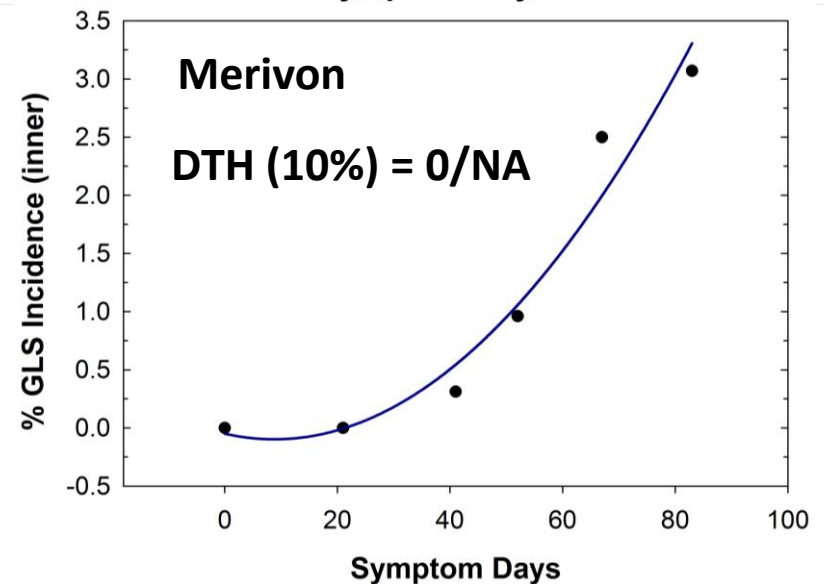
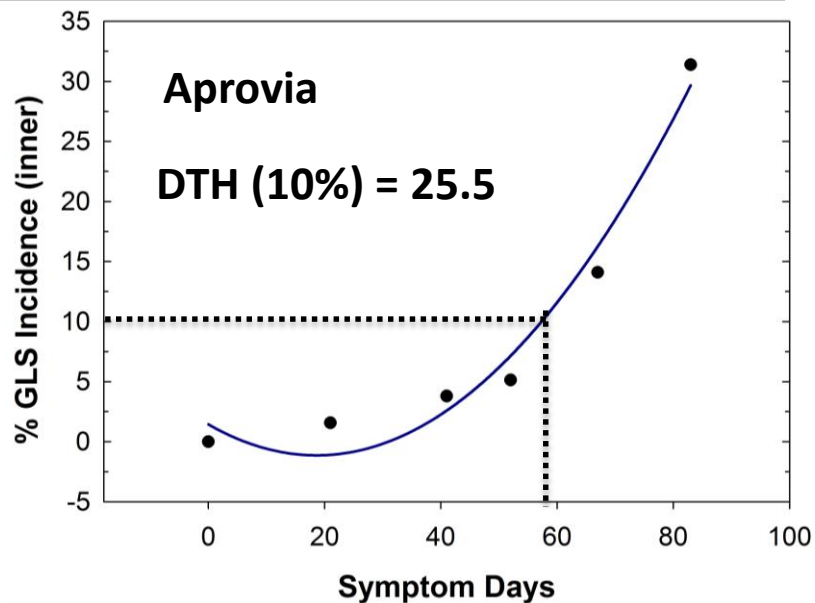
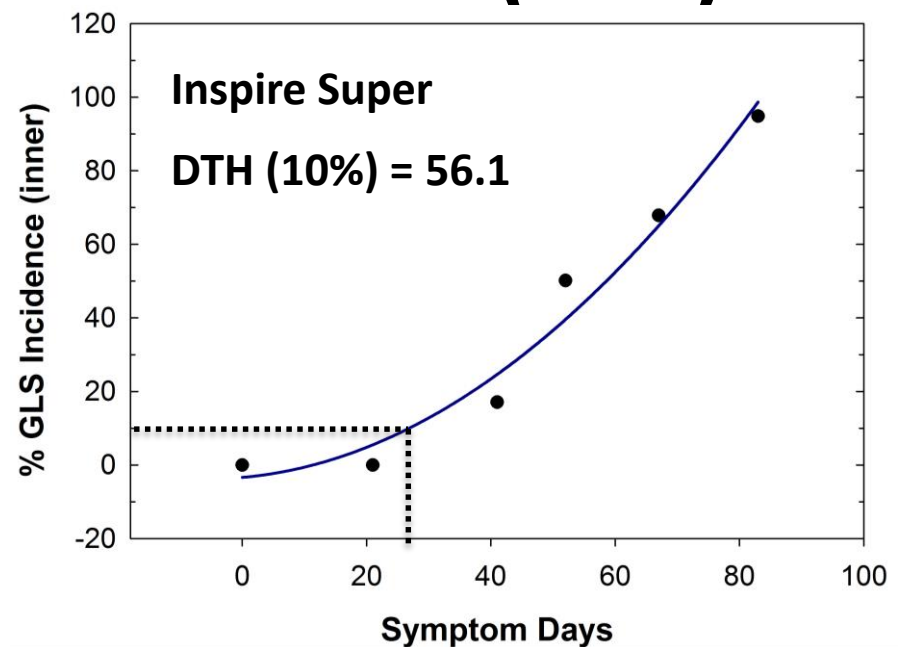
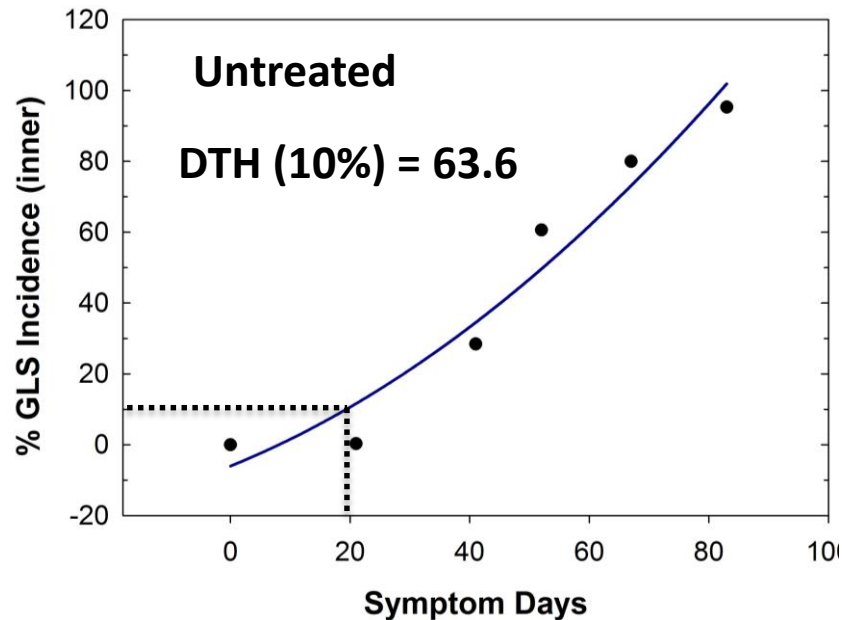
GLS-Related Defoliation



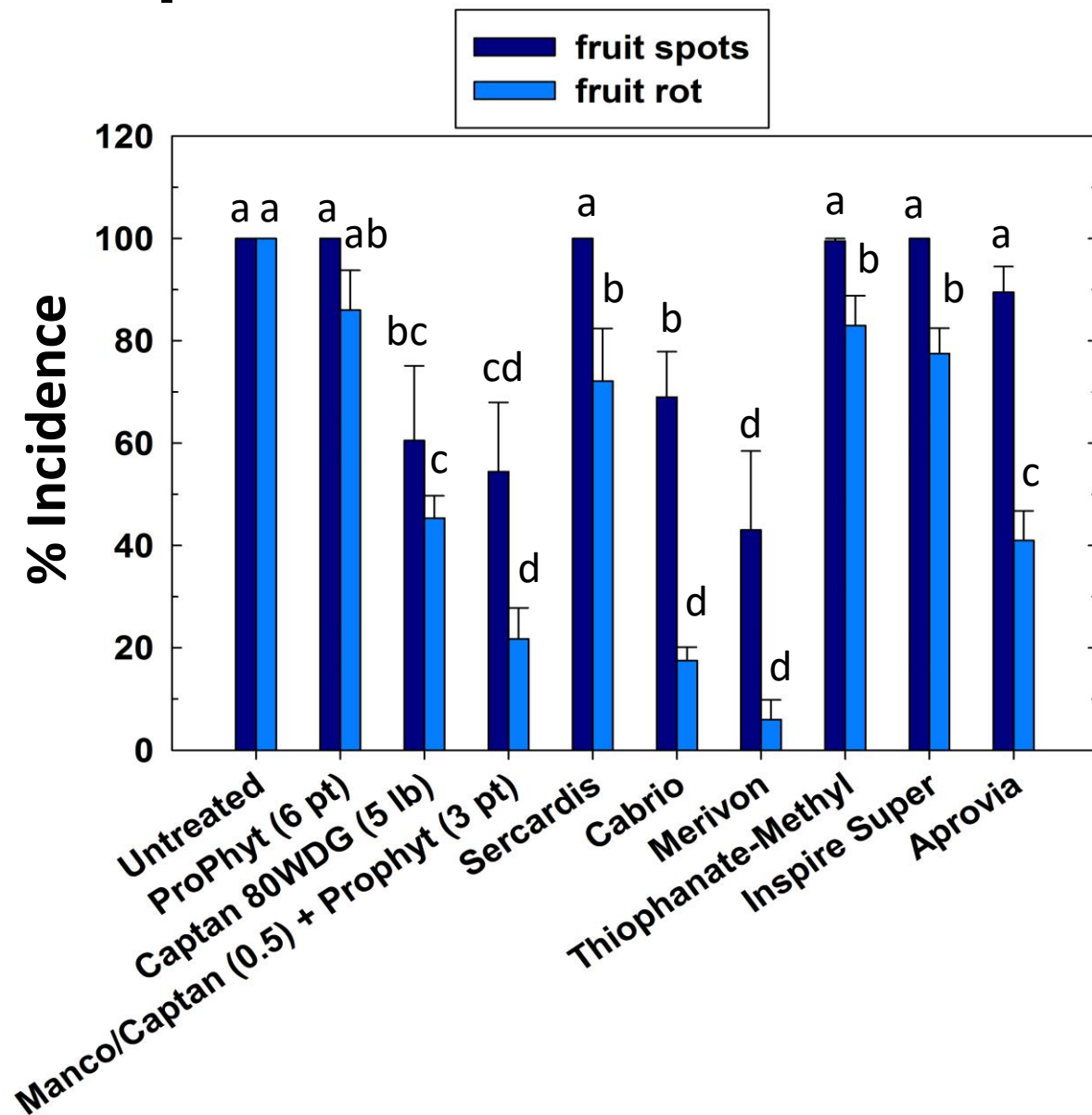
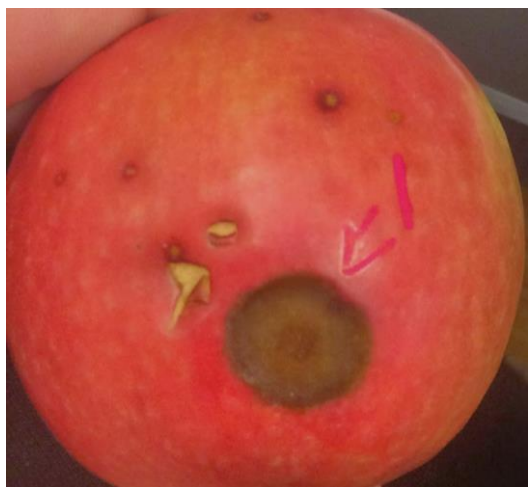
Outer Defoliation:
Only Merivon
significantly less
defoliation than
untreated program



GLS-Related Inner Defoliation (10%)



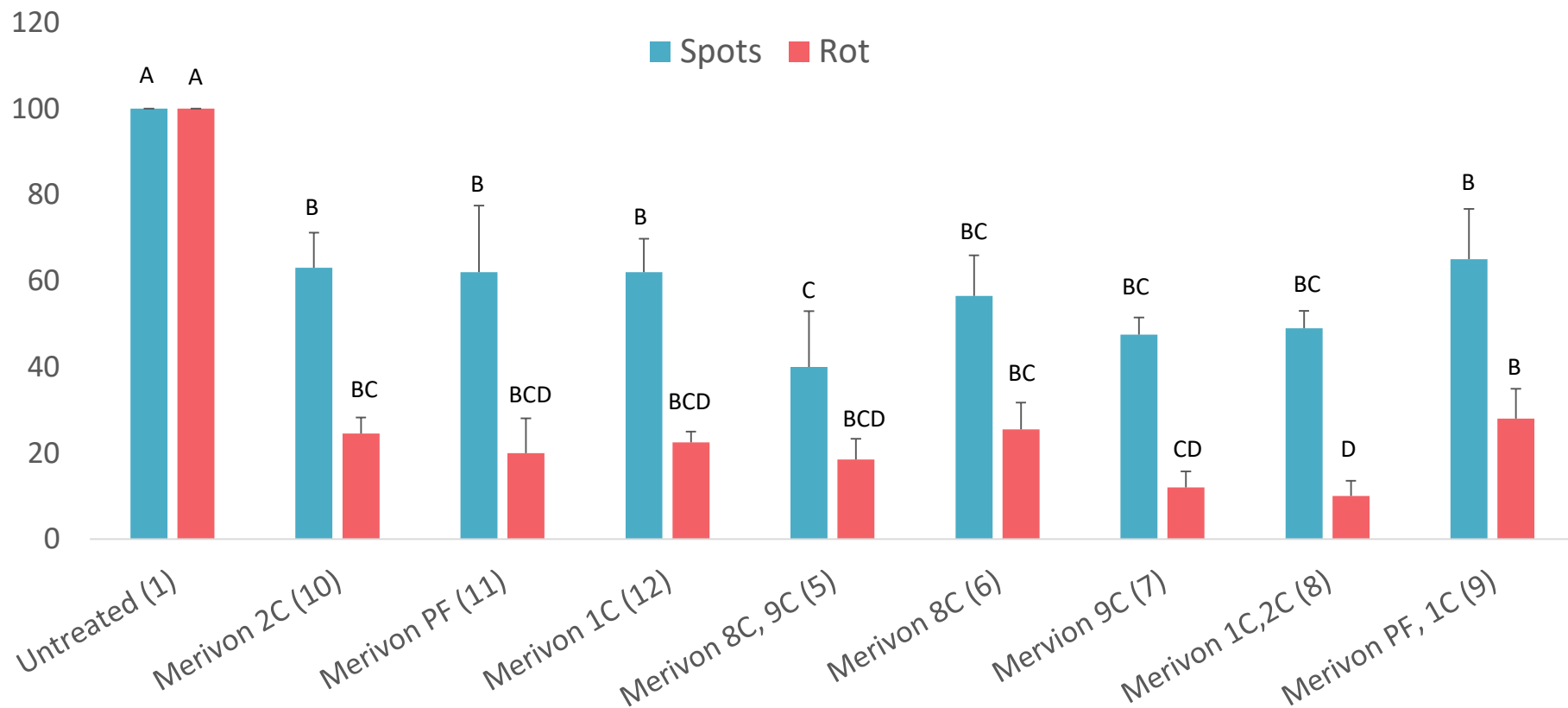
Glomerella Fruit Spot and Rot at Harvest



Glomerella Field Trial Objectives

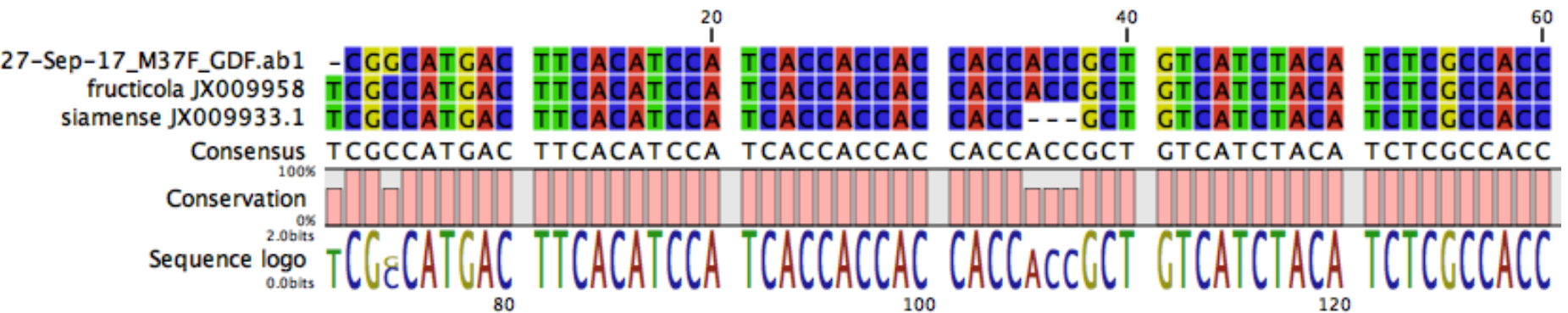
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Merivon Timing: Harvest Glomerella Fruit Spot + Rot



- Ziram 76 DF (3 lb) + Captan 80WDG (2.5 lb) applied during “off Merivon” applications

Next Steps: Glomerella Species Characterization



Next Steps: Residue Studies



Thanks!

- North Carolina Agricultural Foundation
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- Walgenbach and Villani Labs

