Peanut Response to Digging Date and Disease Management in 2023 and 2024

David Jordan, Ethan Foote, and LeAnn Lux
North Carolina State University

Treatments

Variety Bailey II

Four or five digging dates after optimum pod maturity

Four fungicide programs

1) Non-treated control

2) Full-season program (5 sprays)

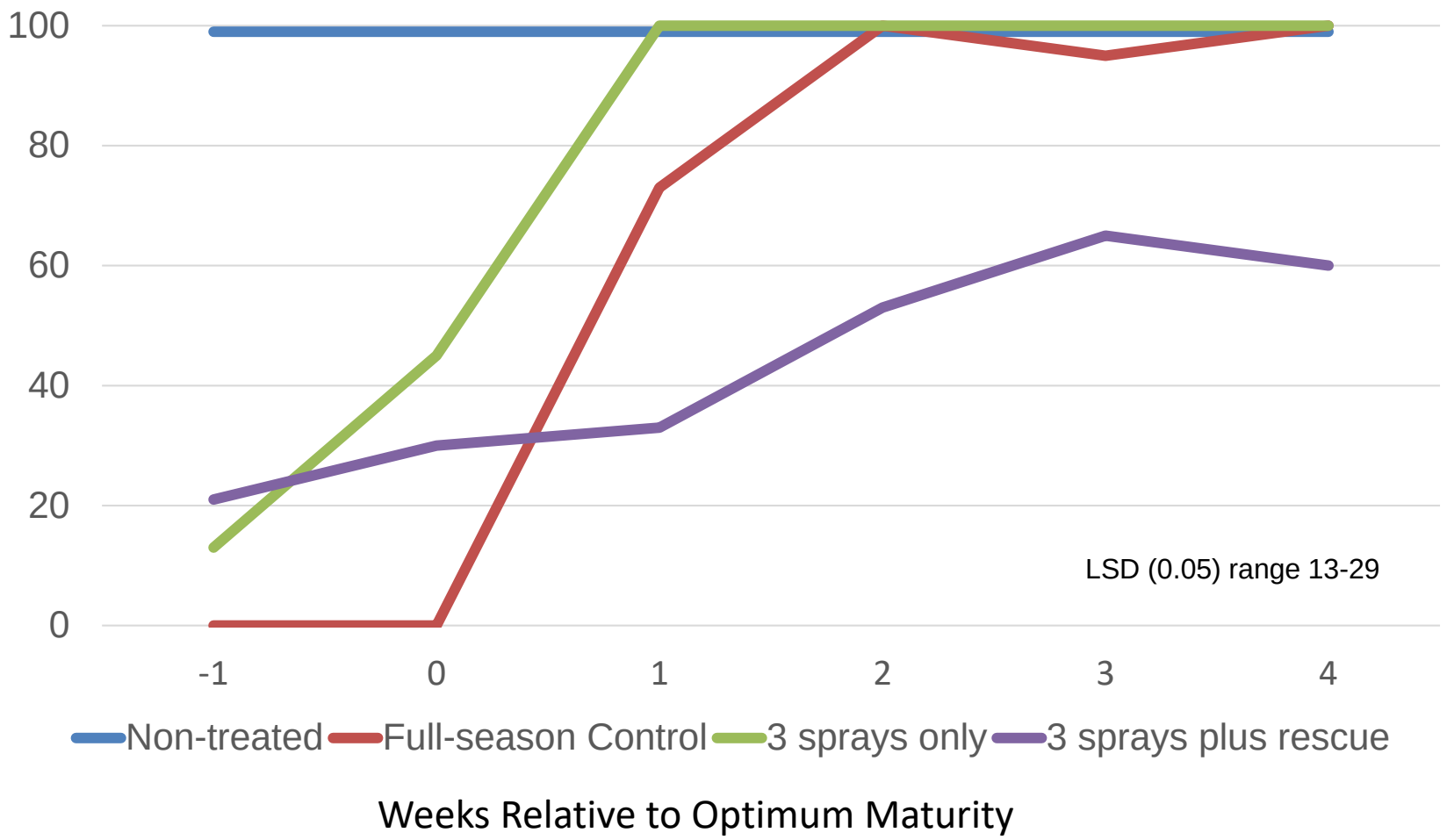
3) Chlorothalonil plus tebuconazole (3 sprays)

4) Chlorothalonil plus tebuconazole (3 sprays) followed by a rescue spray of Provost Silver plus Microthiol Disperss when 10-15% of the canopy had lesions caused by leaf spot

Incidence of Leaf Spot in 2023

Percent of Leaves with Lesions

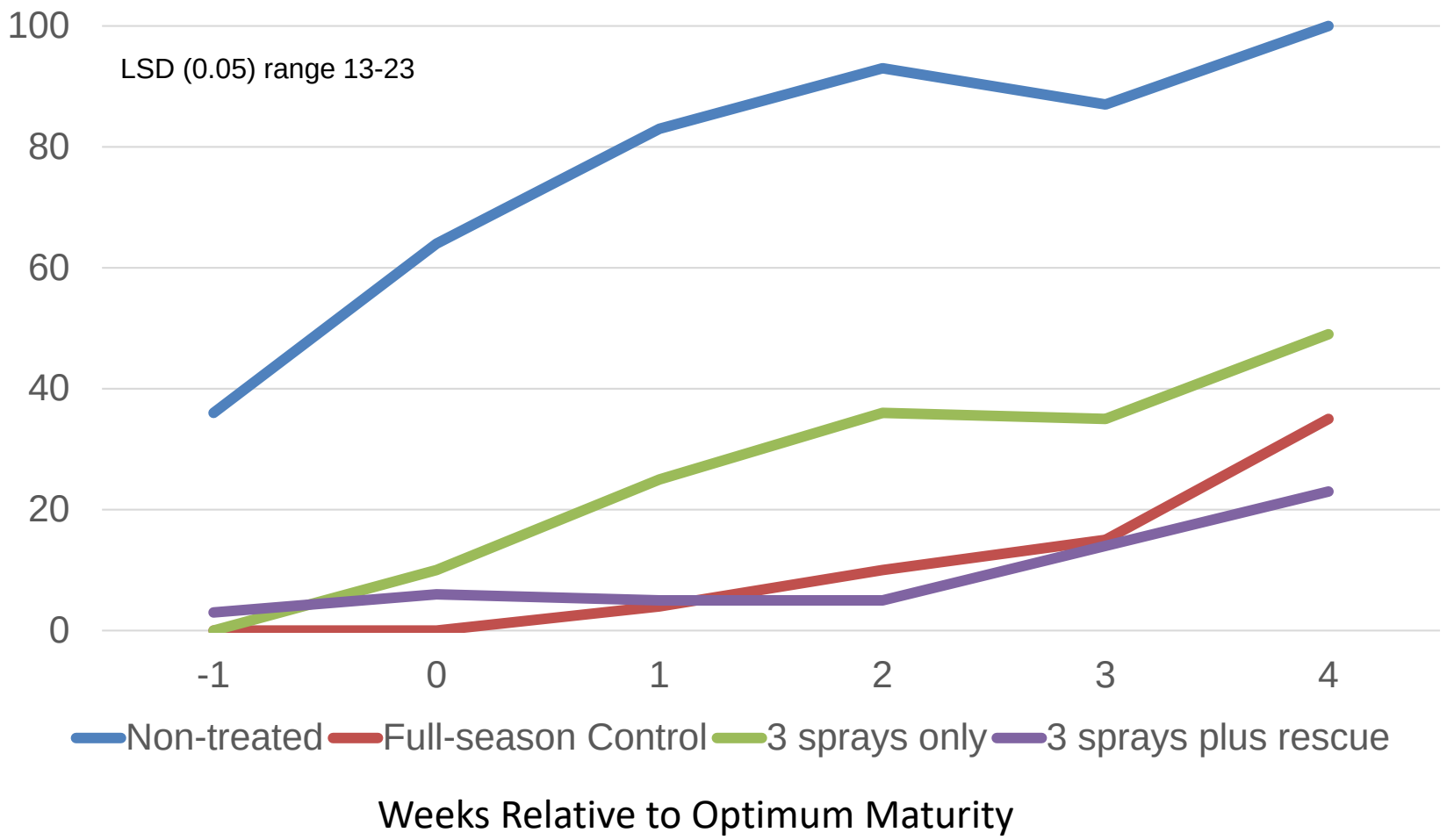
Full-season Program: CHL, Miravis + Elatus, CHL + TEB, CHL
3 Spray Program: CHL, CHL + TEB, CHL
Provost Silver plus Microthiol Disperss as rescue with 10-15% incidence



Canopy Defoliation in 2023

Percent of Leaves Fallen

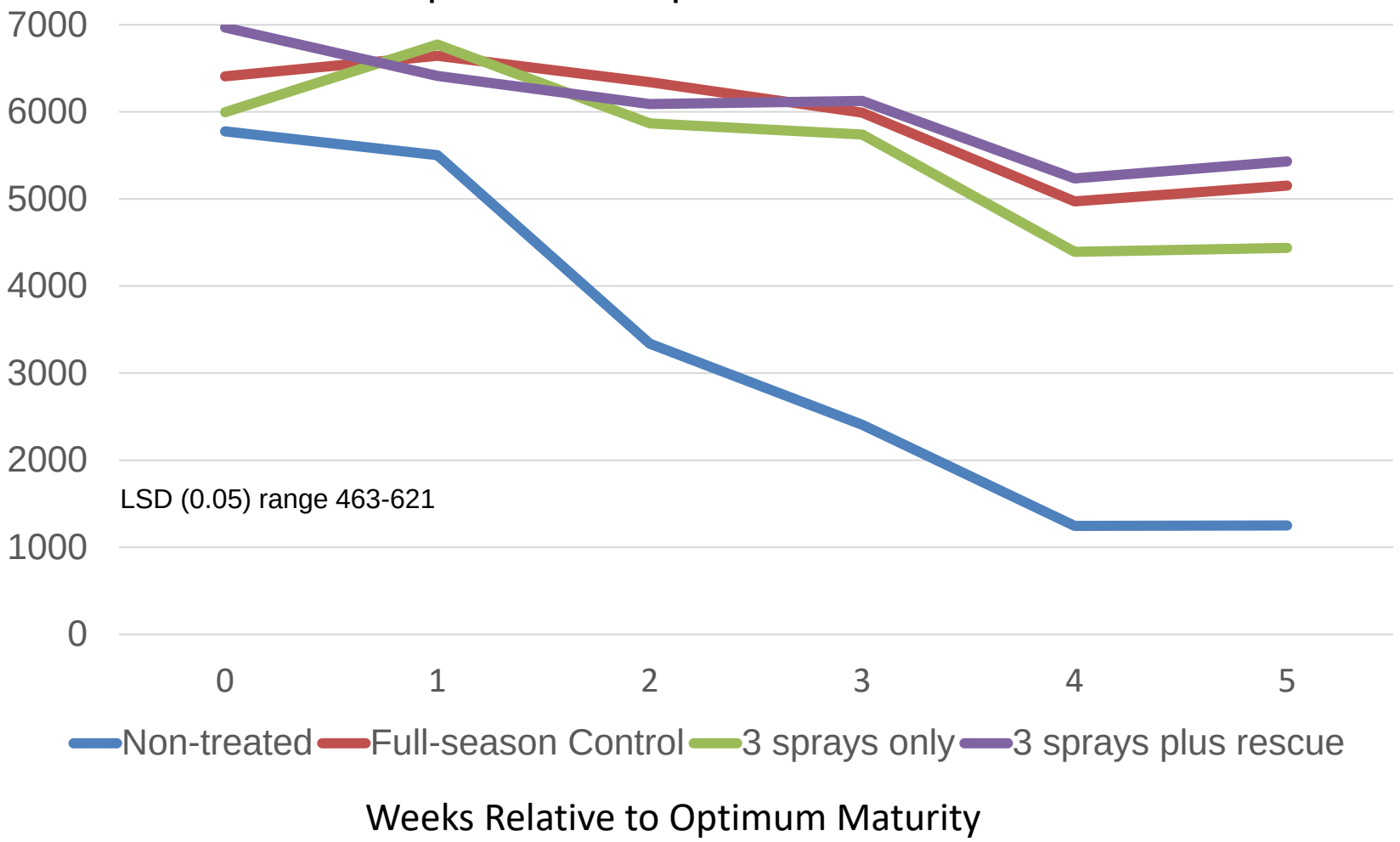
Full-season Program: CHL, Miravis + Elatus, CHL + TEB, CHL
3 Spray Program: CHL, CHL + TEB, CHL
Provost Silver plus Microthiol Disperss as rescue with 10-15% incidence



Peanut Yield in 2023

Pounds per Acre

Full-season Program: CHL, Miravis + Elatus, CHL + TEB, CHL
3 Spray Program: CHL, CHL + TEB, CHL
Provost Silver plus Microthiol Disperss as rescue with 10-15% incidence



Summary in 2023

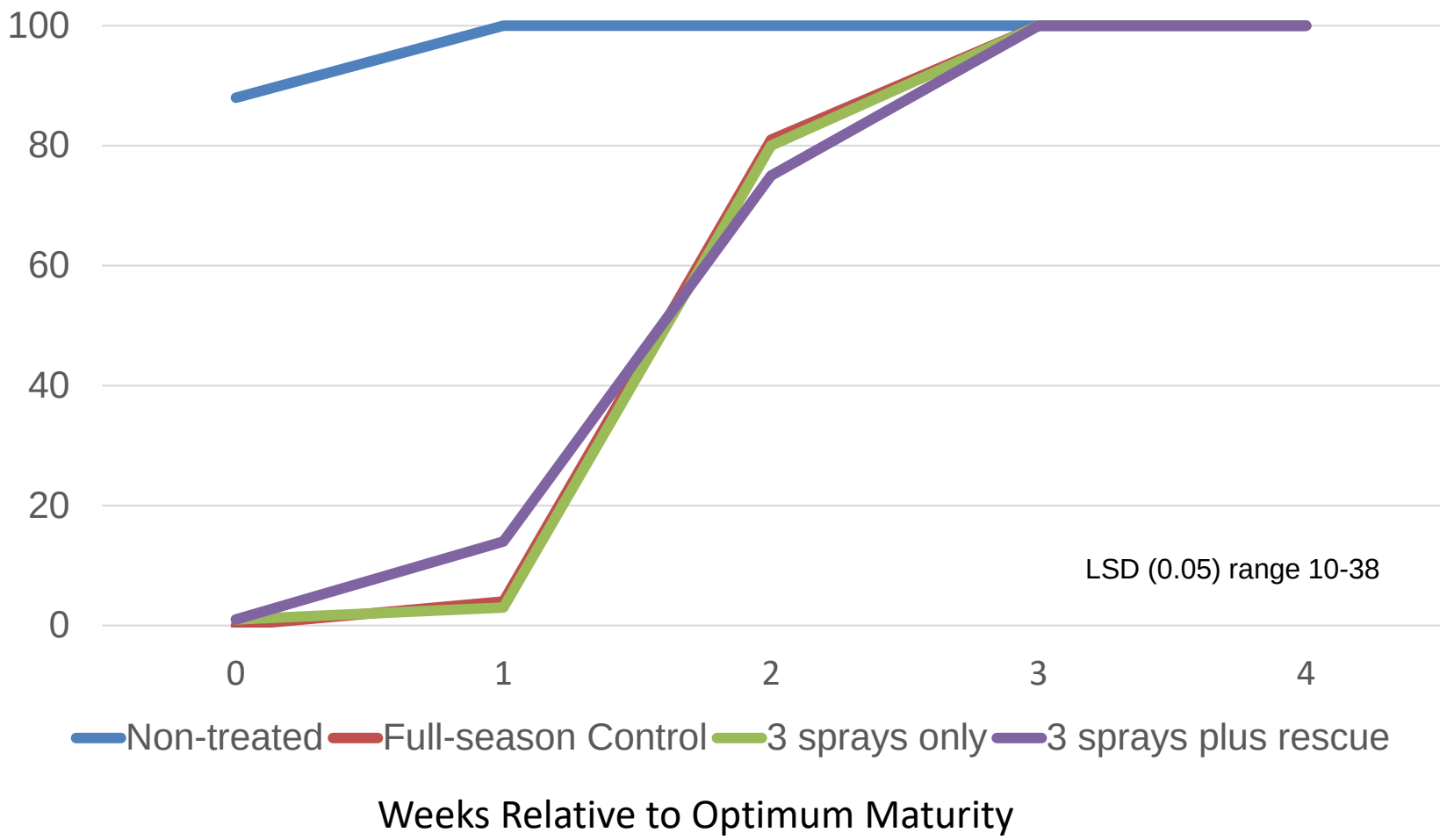
Greater yield loss was noted when leaf spot incidence and canopy defoliation increased

Provost Silver plus Microthiol Disperss applied when 10-15% of leaves had fewer lesions caused by leaf spot at later digging dates

Incidence of Leaf Spot in 2024

Percent of Leaves with Lesions

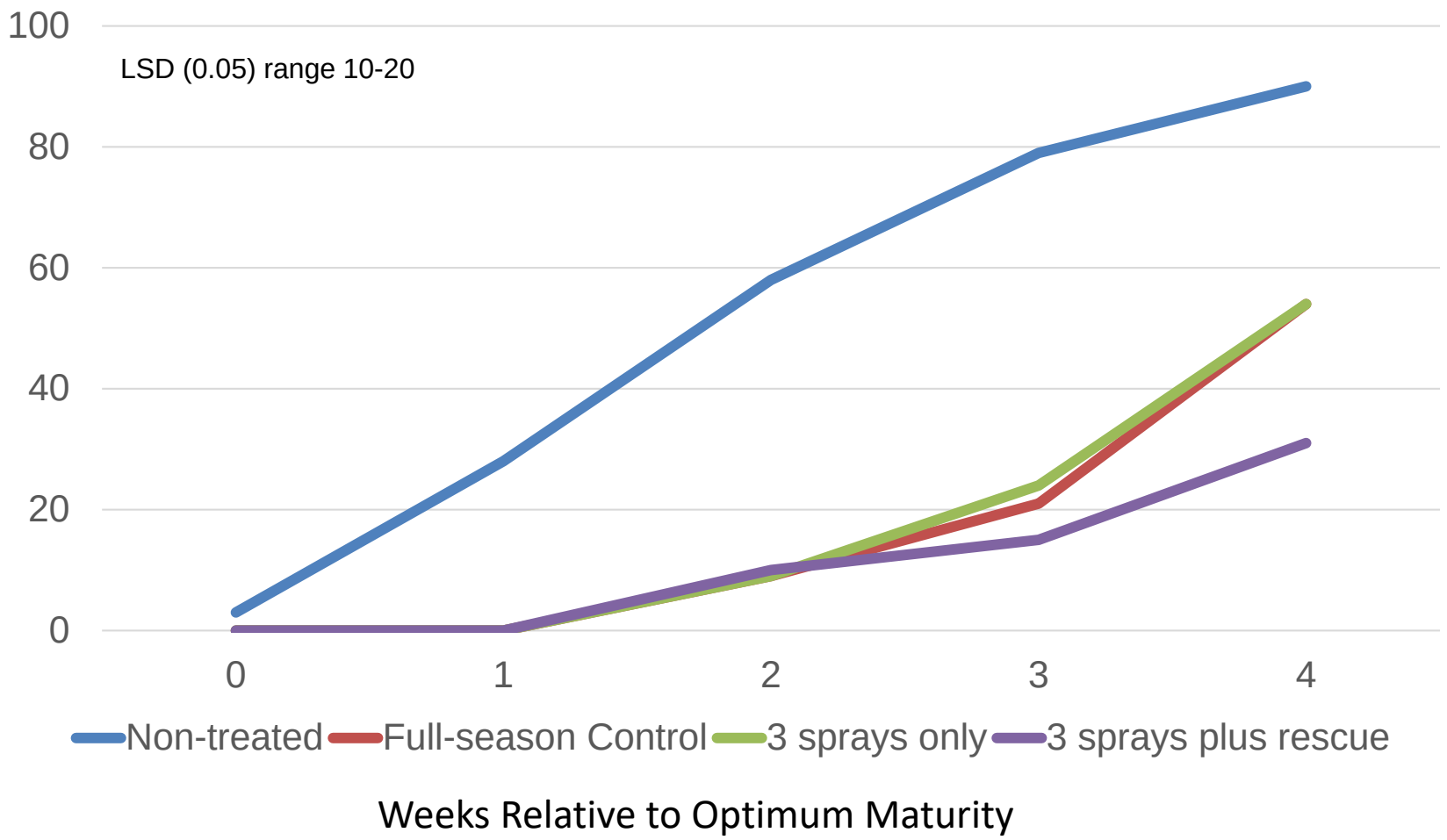
Full-season Program: CHL, Miravis + Elatus, CHL + TEB, CHL
3 Spray Program: CHL, CHL + TEB, CHL
Provost Silver plus Microthiol Disperss as rescue when 10-15% incidence



Canopy Defoliation in 2024

Percent of Leaves Fallen

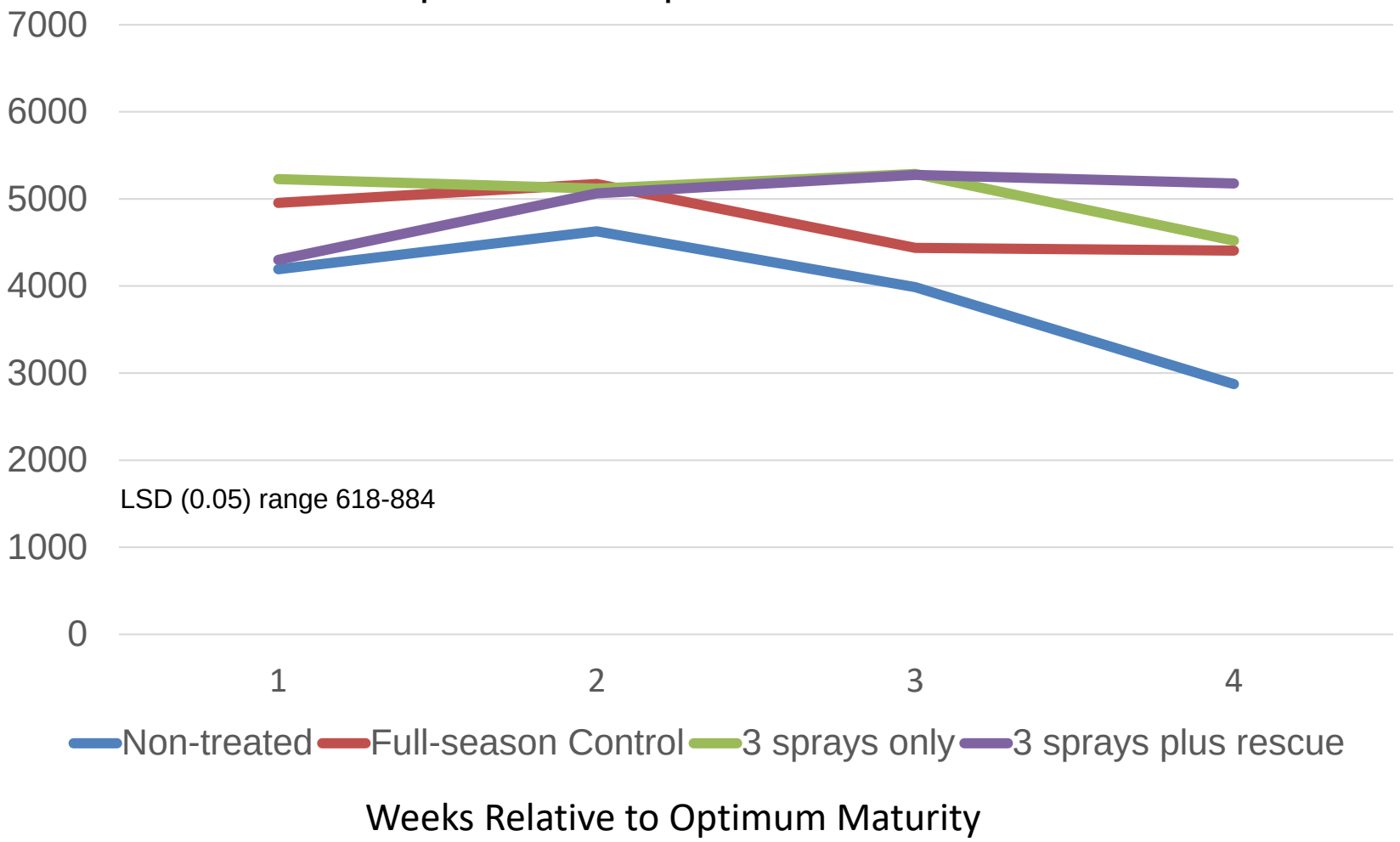
Full-season Program: CHL, Miravis + Elatus, CHL + TEB, CHL
3 Spray Program: CHL, CHL + TEB, CHL
Provost Silver plus Microthiol Disperss as rescue when 10-15% incidence



Peanut Yield in 2024

Pounds per Acre

Full-season Program: CHL, Miravis + Elatus, CHL + TEB, CHL
3 Spray Program: CHL, CHL + TEB, CHL
Provost Silver plus Microthiol Disperss as rescue when 10-15% incidence



Summary in 2024

Greater yield loss was noted when leaf spot incidence and canopy defoliation increased

Incidence of leaf spot did not differ for the three fungicide programs across all digging dates

The rescue treatment of Provost Silver plus Microthiol Disperss applied when 10-15% of leaves had lesions resulted in less canopy defoliation at the later digging dates

The rescue treatment protected yield at the final digging date compared with other fungicide programs