

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

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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 presented for 2021, 2022, and average of 2021 and 2022
- 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

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

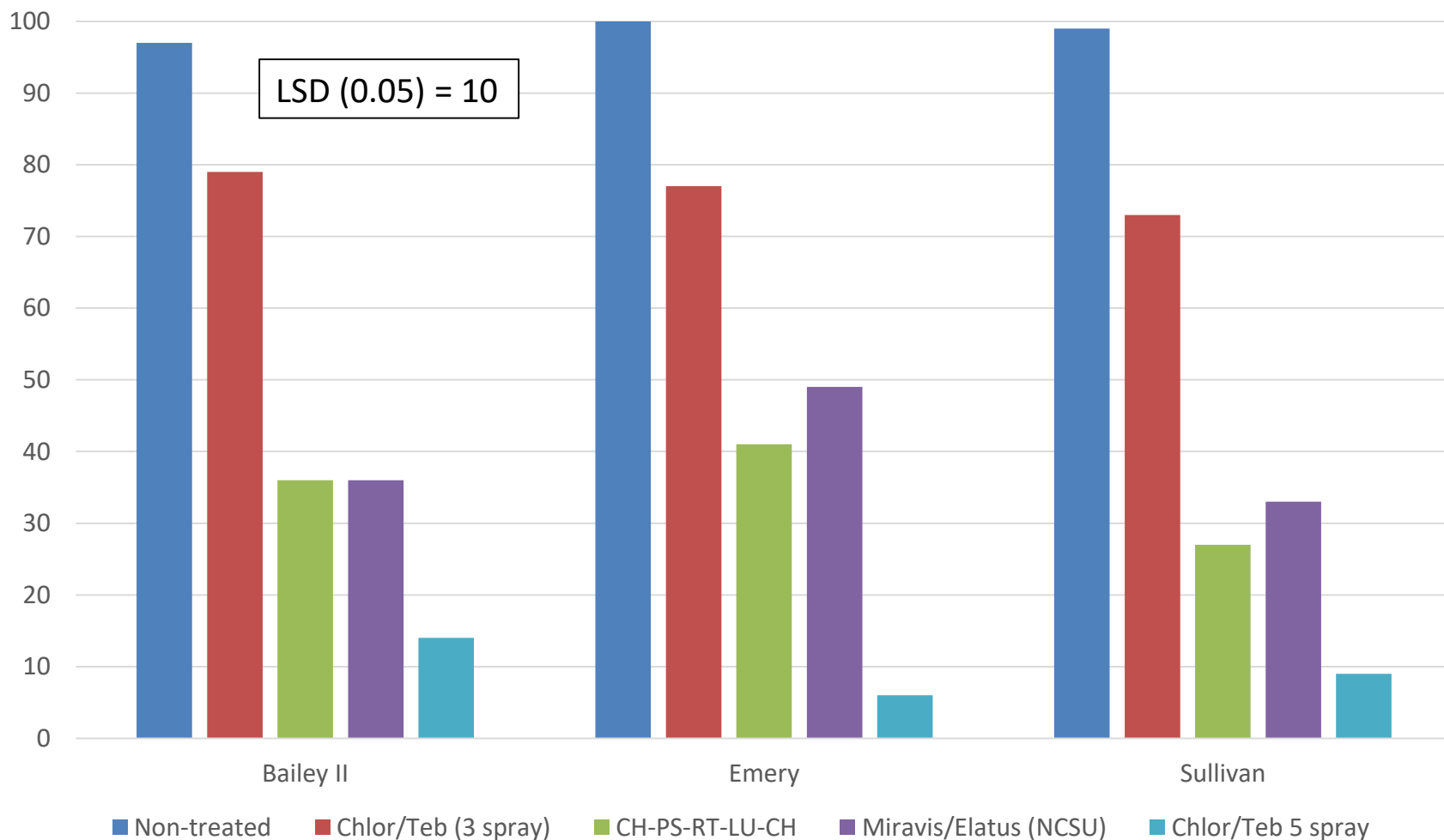
Spray 4, Chlorothalonil, 24 oz

Spray 4, Tebuconazole, 7.2 oz

Spray 5, Chlorothalonil, 24 oz

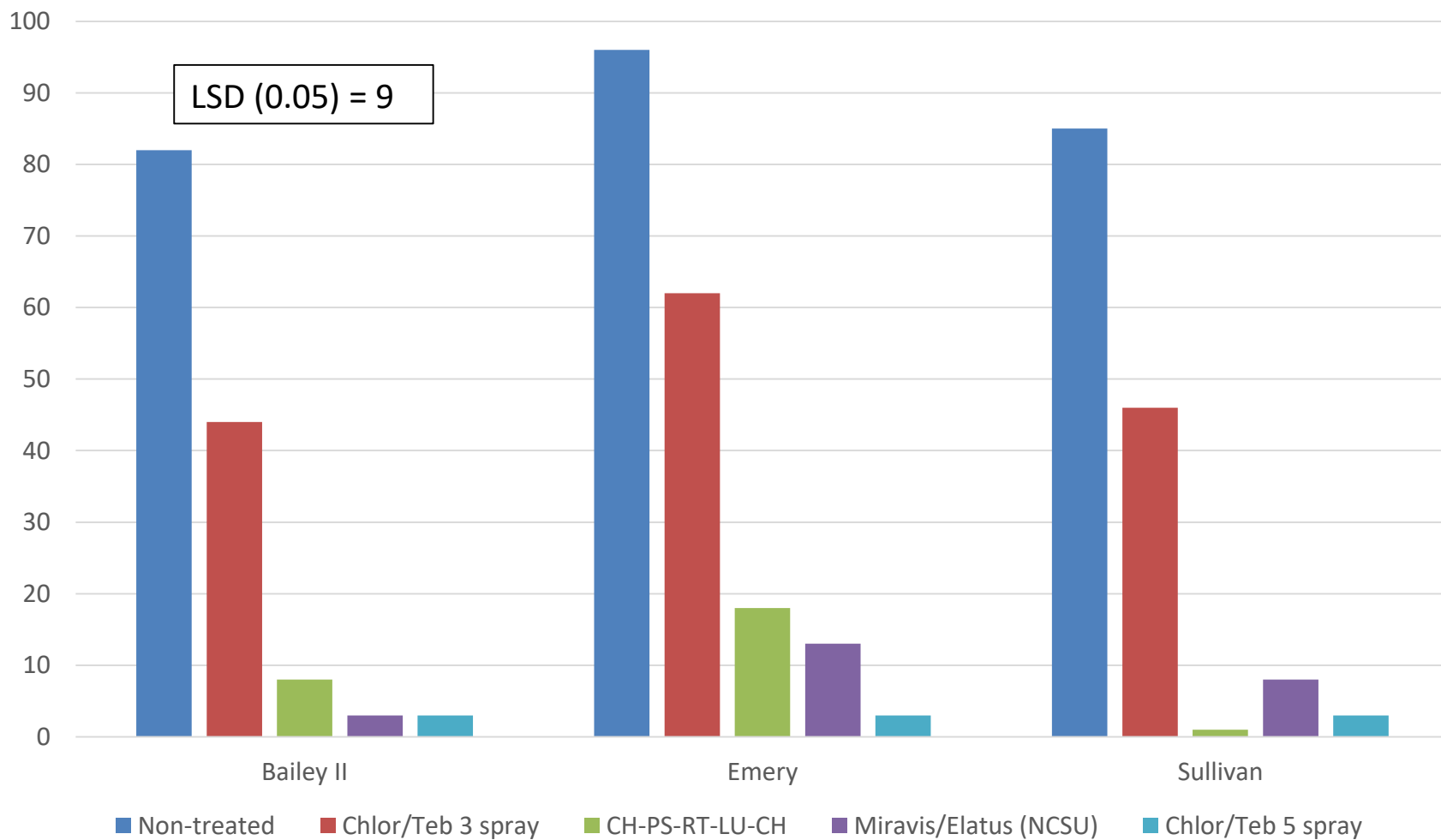
Leaf Spot Incidence (Percent of Leaves with Lesions) at Harvest

Data are pooled over three locations in 2021



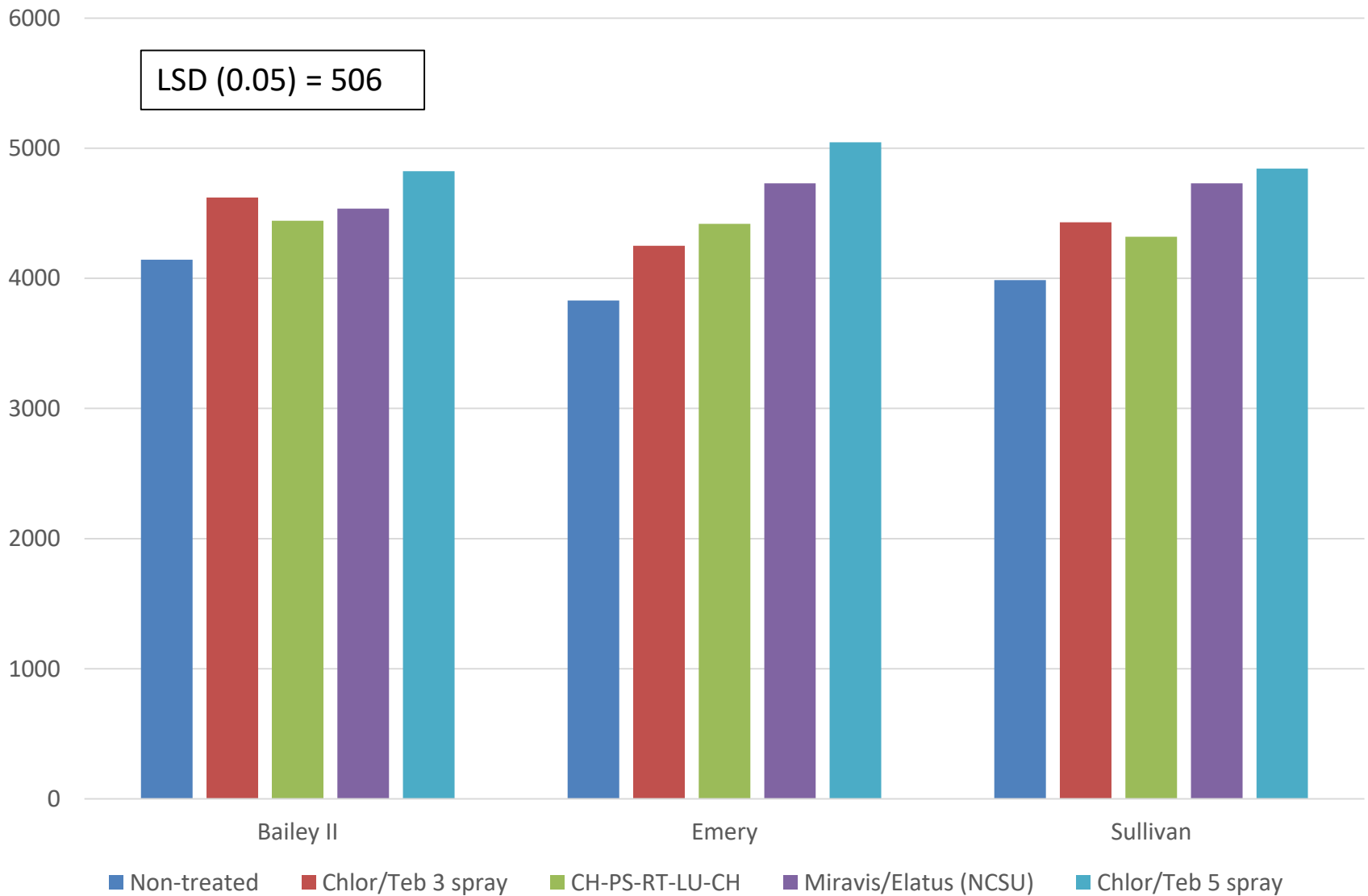
Canopy Defoliation (Percent of Leaves Lost) at Harvest

Data are pooled over three locations in 2021



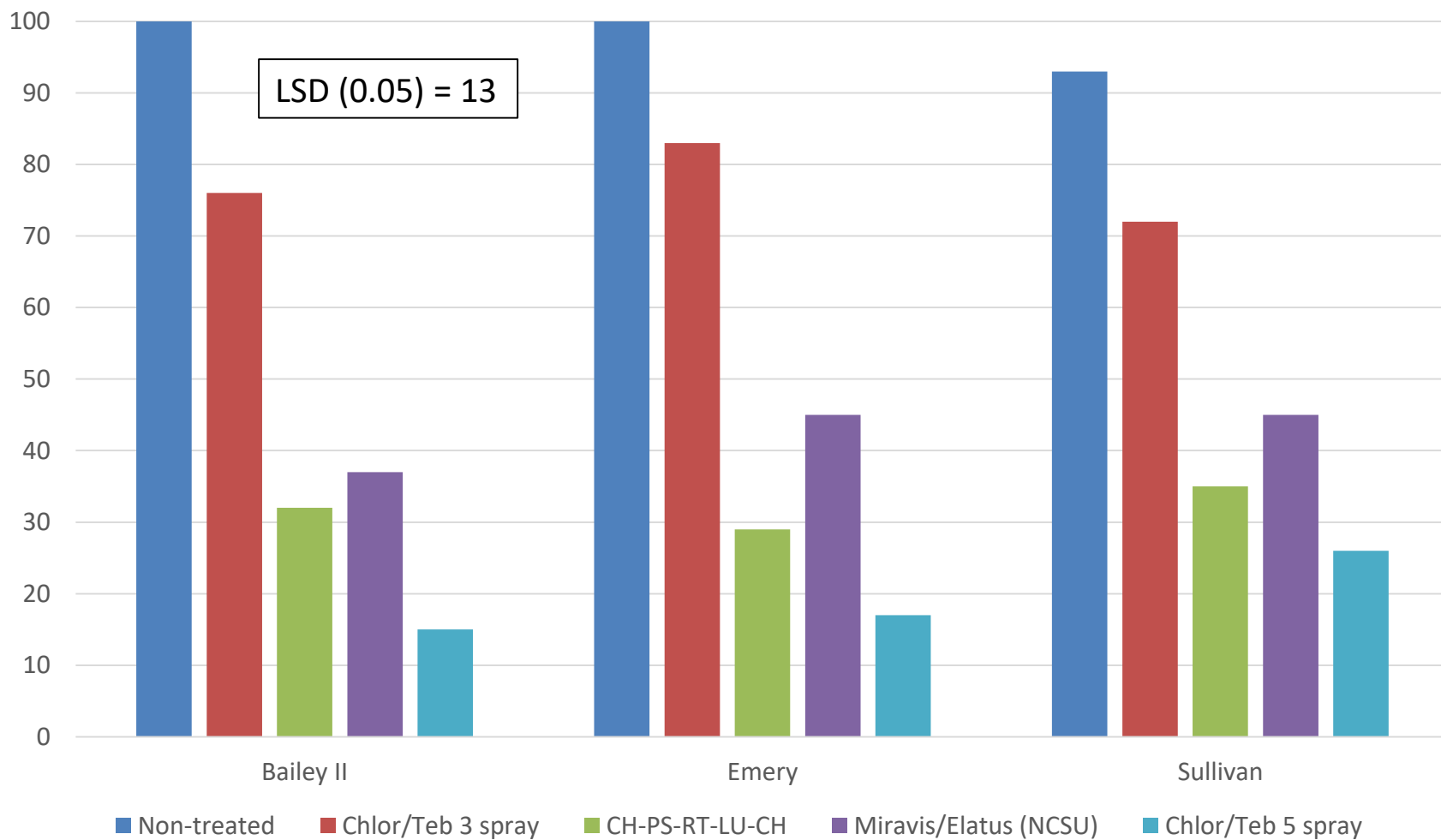
Peanut Yield (pounds per acre) with Fungicides and Varieties

Data are pooled over three locations in 2021



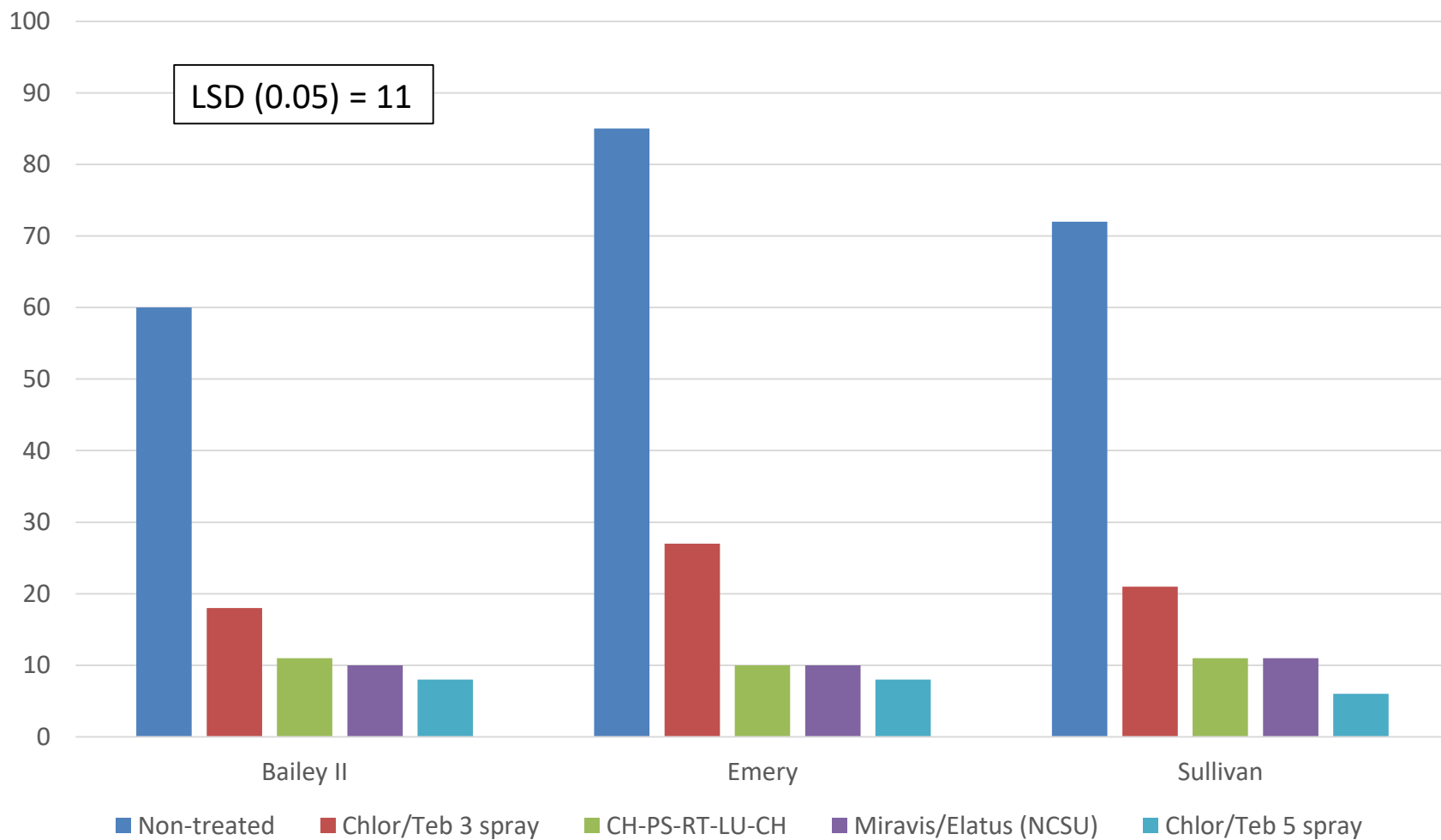
Leaf Spot Incidence (Percent of Leaves with Lesions) at Harvest

Data are pooled over three locations in 2022



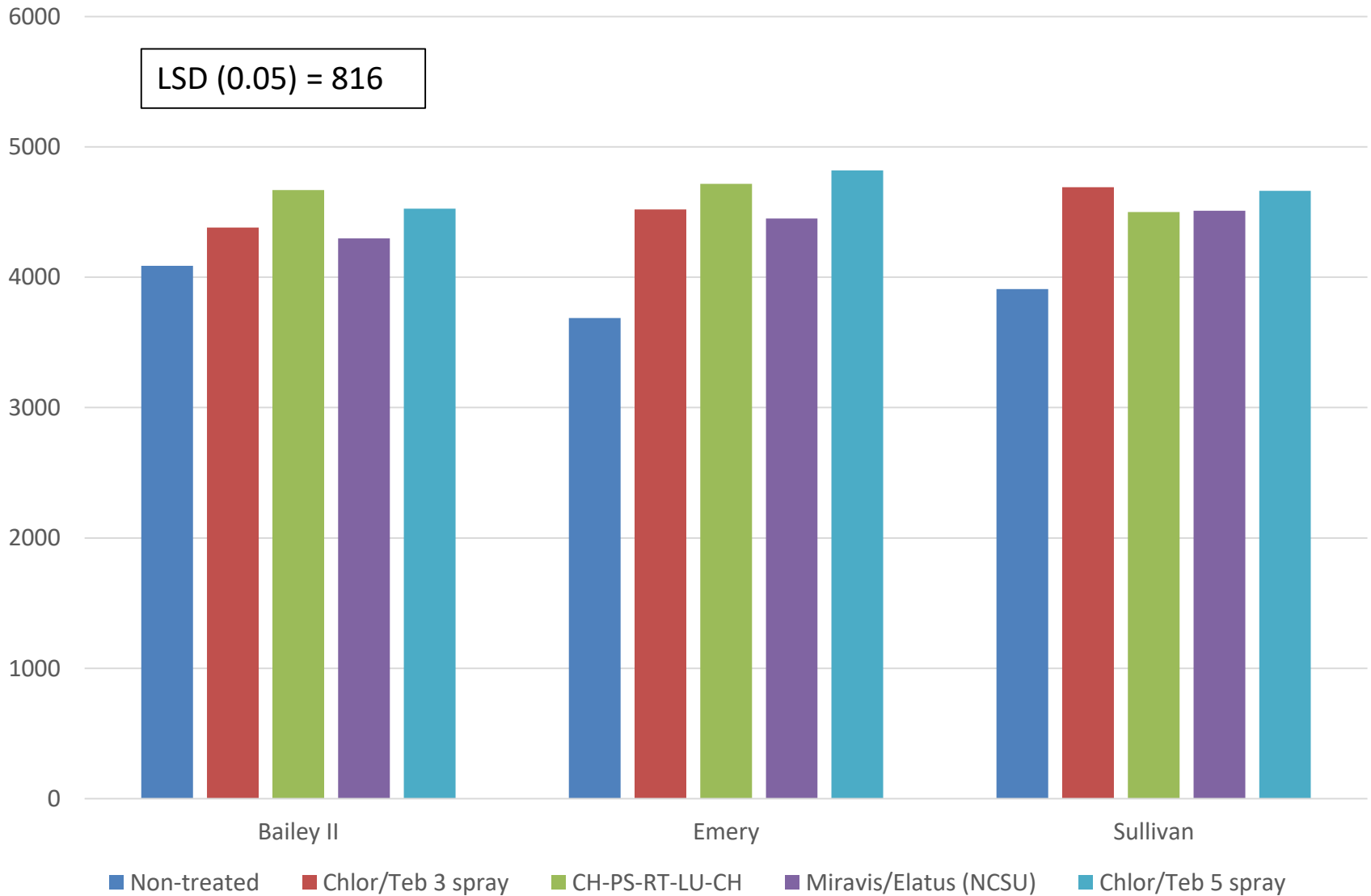
Canopy Defoliation (Percent of Leaves Lost) at Harvest

Data are pooled over three locations in 2022



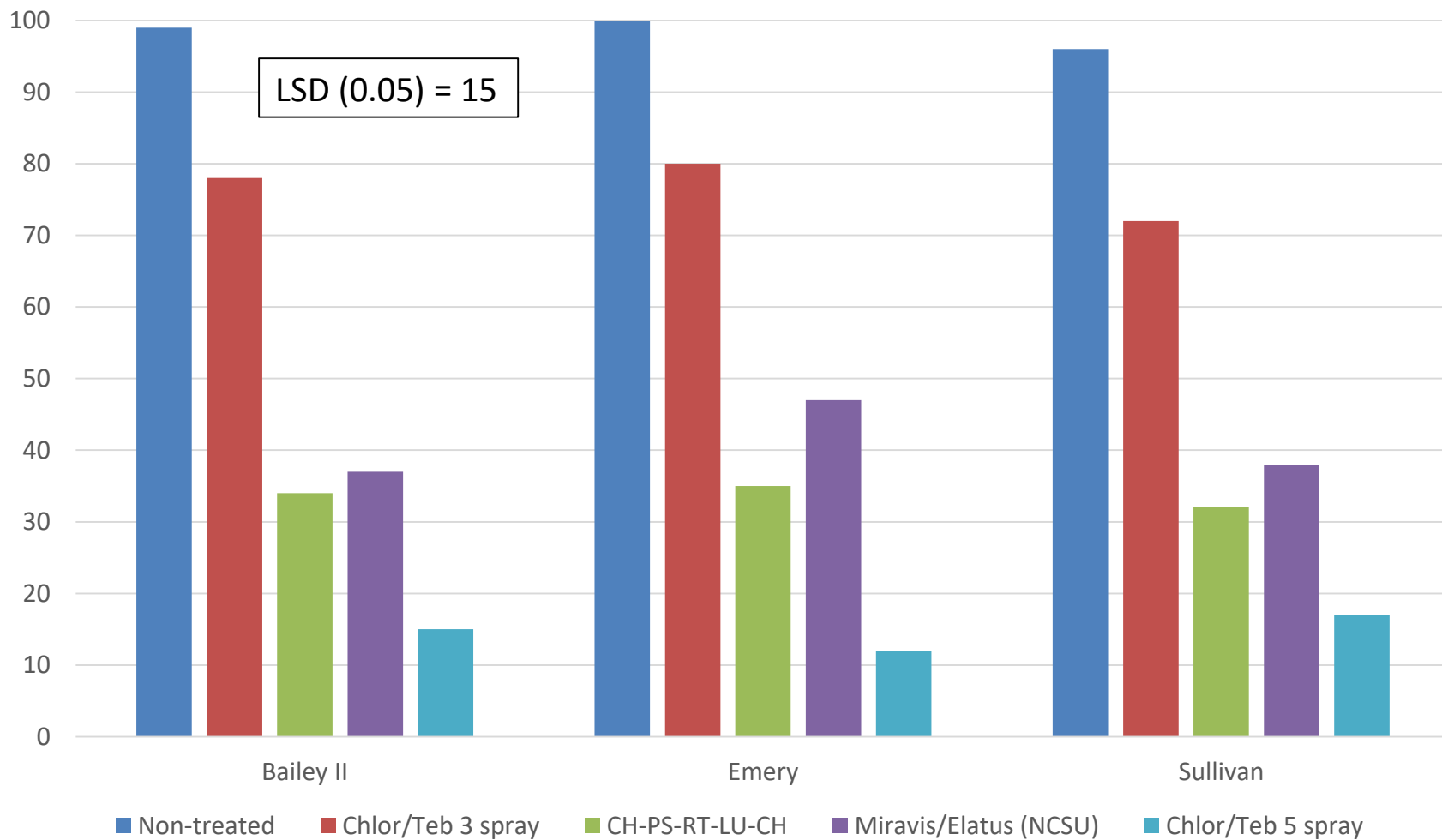
Peanut Yield (pounds per acre) with Fungicides and Varieties

Data are pooled over three locations in 2022



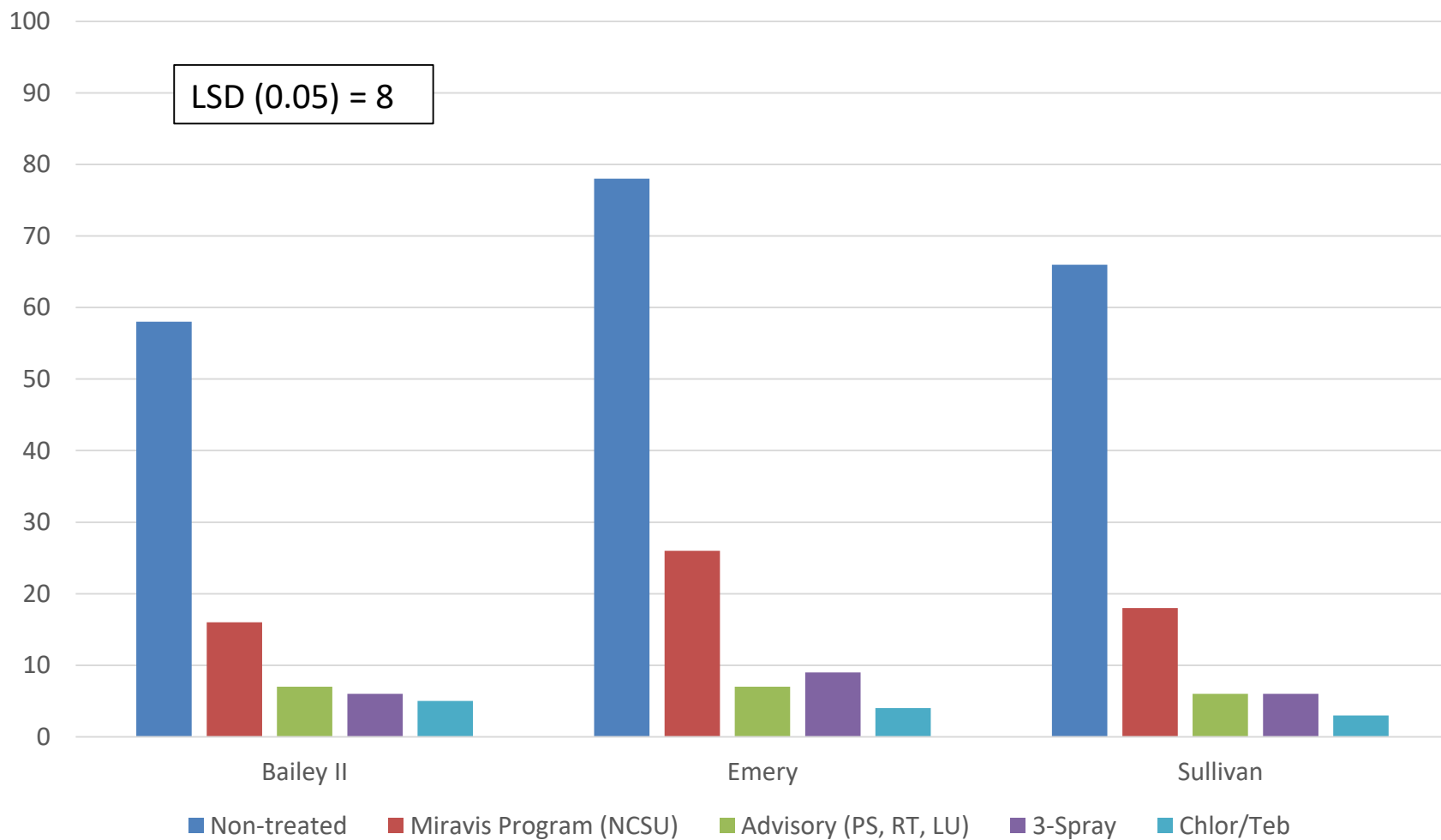
Leaf Spot Incidence (Percent of Leaves with Lesions) at Harvest

Data are pooled over three locations in 2021 and 2022 (5 trials)



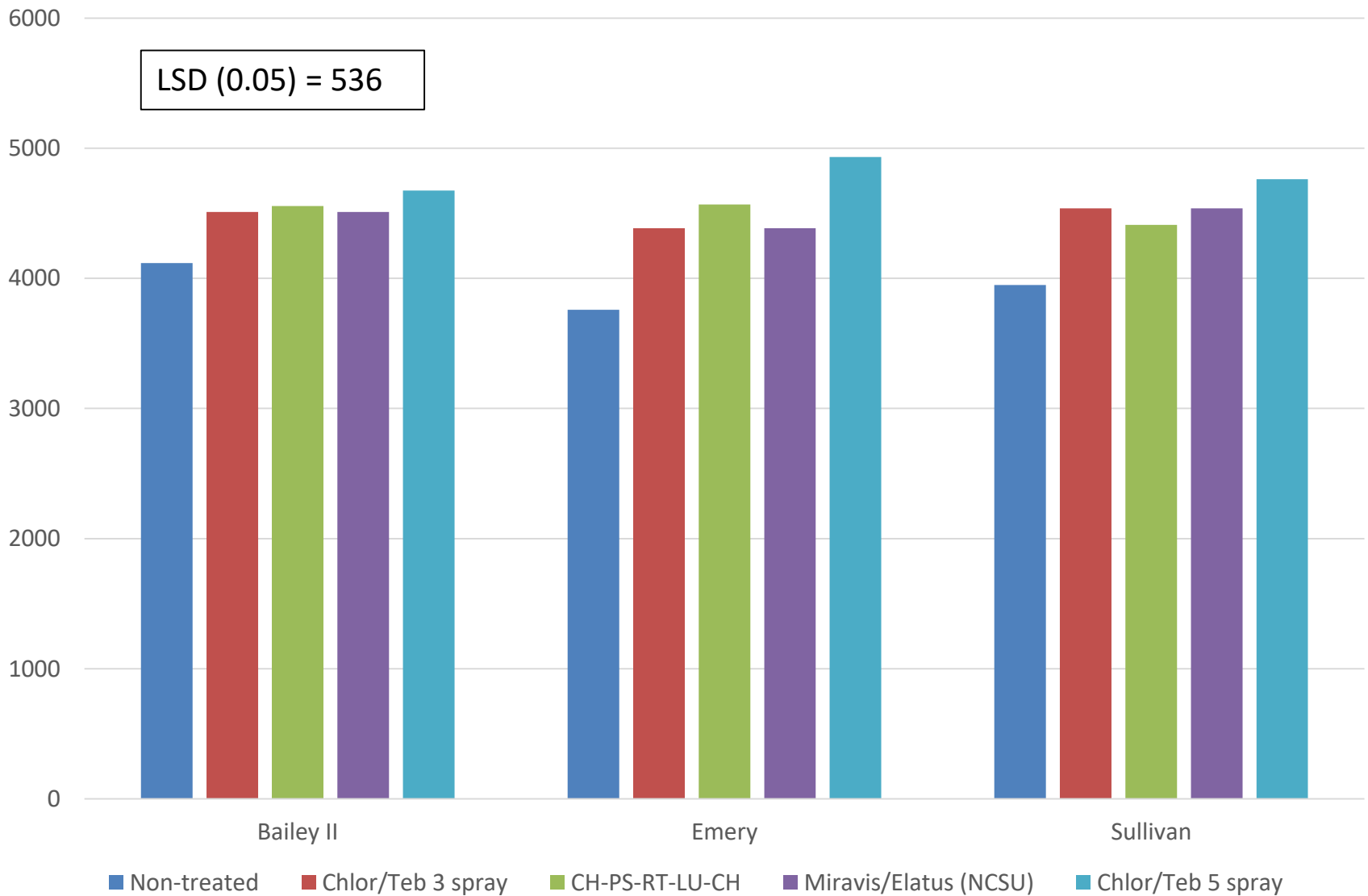
Canopy Defoliation (Percent of Leaves Lost) at Harvest

Data are pooled over three locations in 2021 and 2022 (5 trials)



Peanut Yield (pounds per acre) with Fungicides and Varieties

Data are pooled over three locations in 2021 and 2022 (5 trials)



Summary

- Emery was more susceptible to leaf spot than Bailey II or Sullivan – Bailey II was less susceptible than Sullivan
- Miravis program (NCSU) and program of Provost Silver then Revytek then Lucento did well
- Chlorothalonil plus tebuconazole did 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)