



2021 peanut weed control update

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Peanut fields I visited in the fall of 2020

Typical issues I have seen

- Spray timing was off
- Lack of effort to control grasses when they were small
- No residual herbicide tank-mixed with POST treatments
- Lack of rain to activate PREs in dryland
- Concerns about leaf burn, then avoid using Gramoxone, PPOs and residual herbicides on the top of crop
- POST herbicides don't work well in heat/drought, cloudy days, or washed off by rain
- Seedling stunting caused by too much PREs and intensive rainfall during seed germination

What is new???

- Anthem flex is officially on the market, a premix of Zidua and Aim
- Anthem flex offers good residual control of pigweed and annual grasses, and postemergence control of broadleaf weeds such as Palmer, morningglory, hemp sesbania, etc., and small tropical spiderwort
- Brake (fluridone) may be the next one to receive Section 18 label in peanut. Research will be continued into 2021 before application to be filed
- Brake offers excellent control of glyphosate, ALS, Atrazine, DNA and PPO resistant Palmer due to its mode of action (WSSA group 12)



Anthem flex 3 fl oz + Cadre 3 fl oz + 24DB 16 oz + NIS 6 days after application (July 22, 2020)



Anthem flex 4 fl oz + Ultra Blazer 16 fl oz + 24DB 16 oz + NIS 6 days after application (July 22, 2020)



Non-Treated Check
22 DAP
in Escambia County



Non-Treated Check
62 DAP
in Escambia County

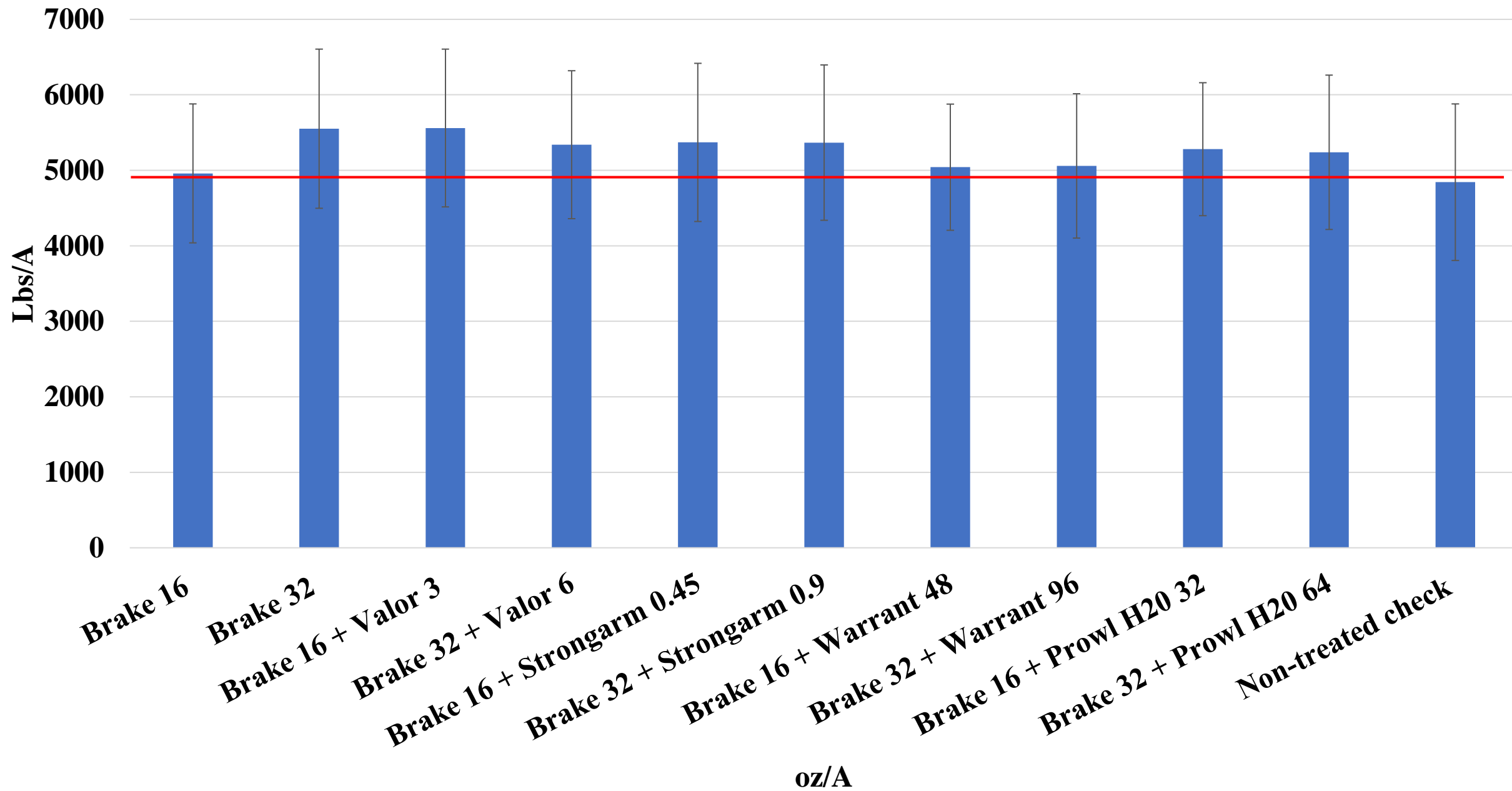


Brake 32 oz/A
22 DAP
in Escambia County

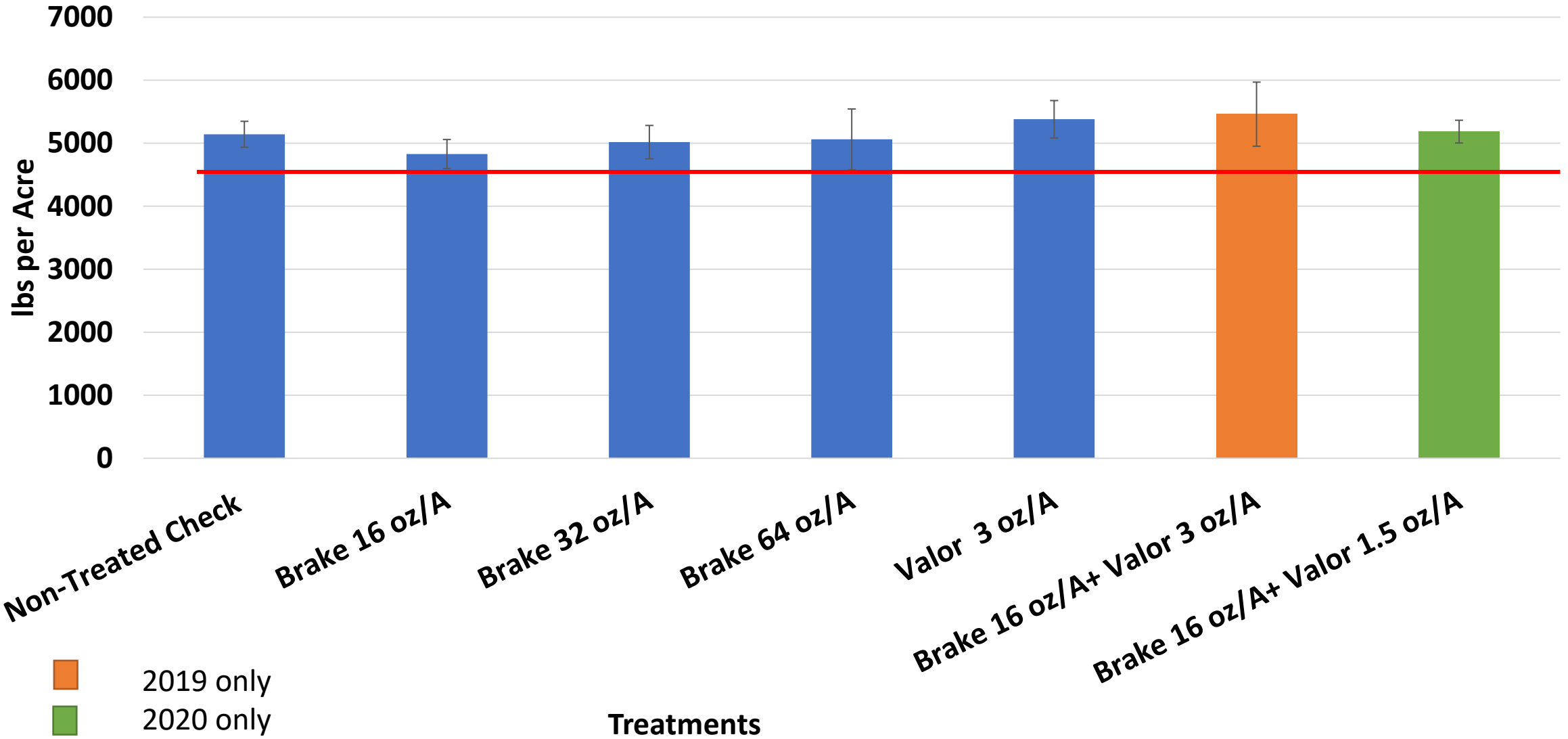


Brake 32 oz/A
62 DAP
in Escambia
County

Combined peanut yields at Headland and Brewton AL, 2018 trials, GA-06G

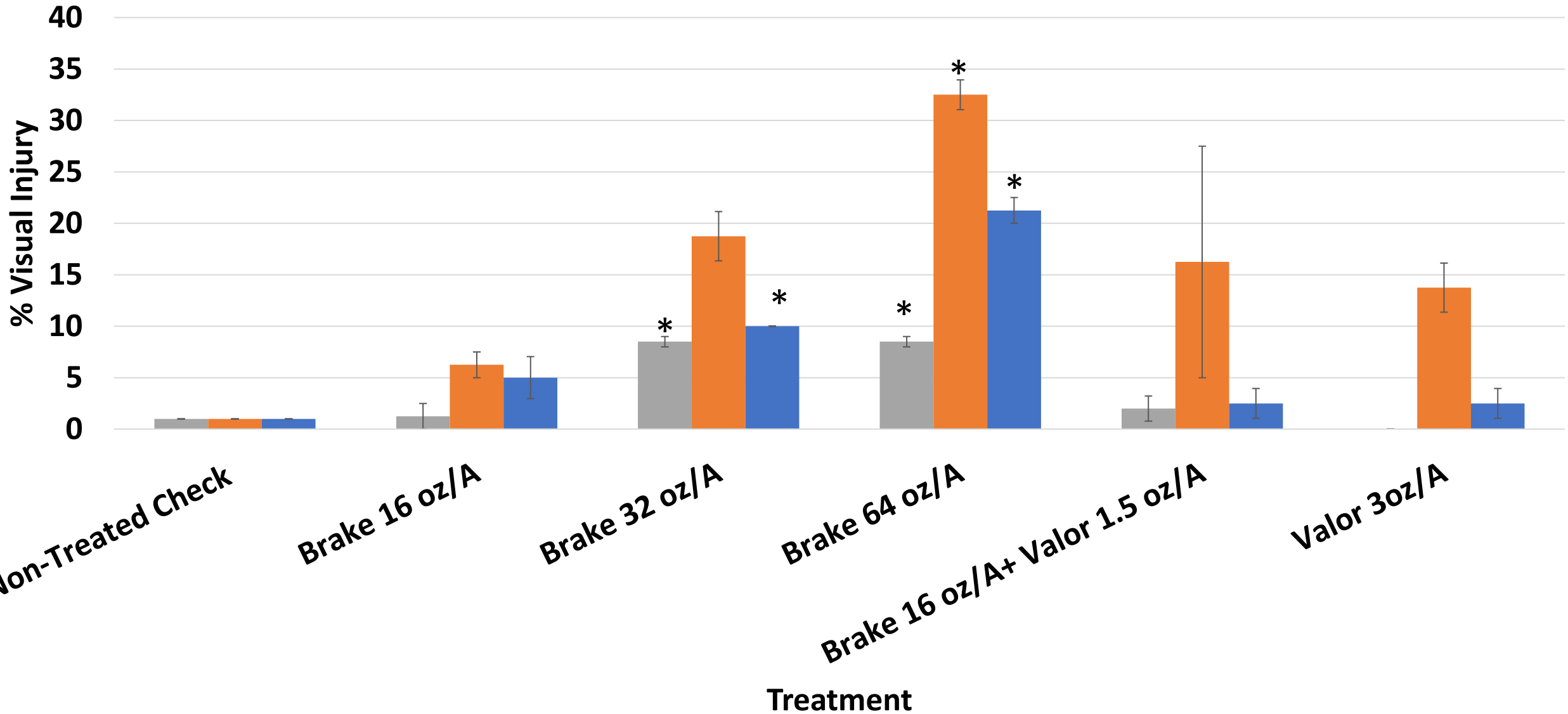


Combined Peanut yield in 2019-2020 trials, GA-06G



Brake Evaluation: Visual Injury in 2020 at Headland AL

■ 14 DAT ■ 22 DAT ■ 28 DAT



* indicates treatment is significantly different from NTC in the bar of the same color at p=0.05



Brake 64 oz/A PRE (4X rate)

Brake 16 oz/A PRE (1X rate)

Pics taken May 27, 2020 (28 DAP)

Tropical spiderwort: a persistent weed in peanut production



- **Strongarm half PRE and half POST**
- **Use Warrant or Dual Mag + half rate Strongarm PRE to start clean**
- **Half rate of Strongarm with Dual Magnum 16 oz/A POST, with either Cadre, Cobra or Ultra Blazer depending on the presence of pigweed**



At cover crop termination in May 2020











Valor + CC Residue



Valor + Conventionally Tilled



High CC Residue Nontreated Check

Valor 3 oz PRE treatments , no POST was applied. Headland, AL @ 49 DAP



Conventionally Tilled Non-Treated Check



High CC Residue Non-Treated Check



Strongarm + Conventionally Tilled



High CC Residue + Strongarm

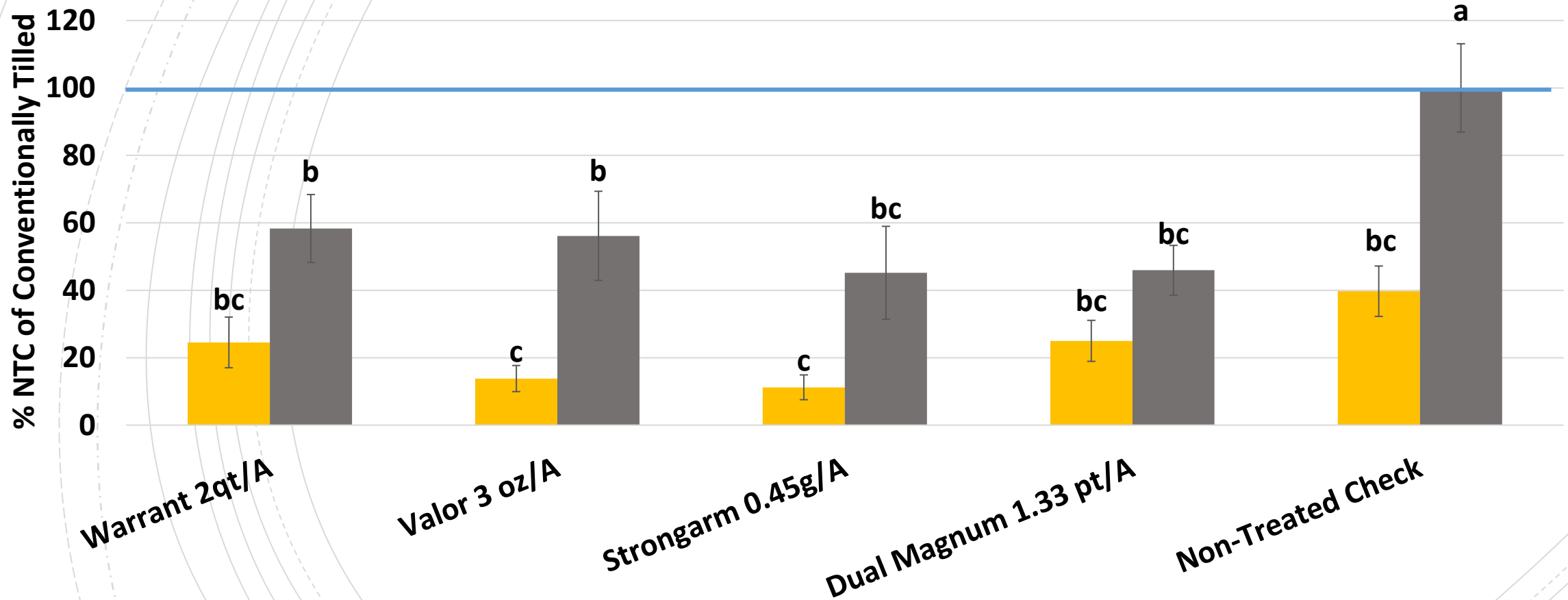
Strongarm 0.45 PRE treatments, no POST was applied. Headland AL @ 49 DAP



Conventionally Tilled Non-Treated Check

Total Fresh Weight Weed Biomass

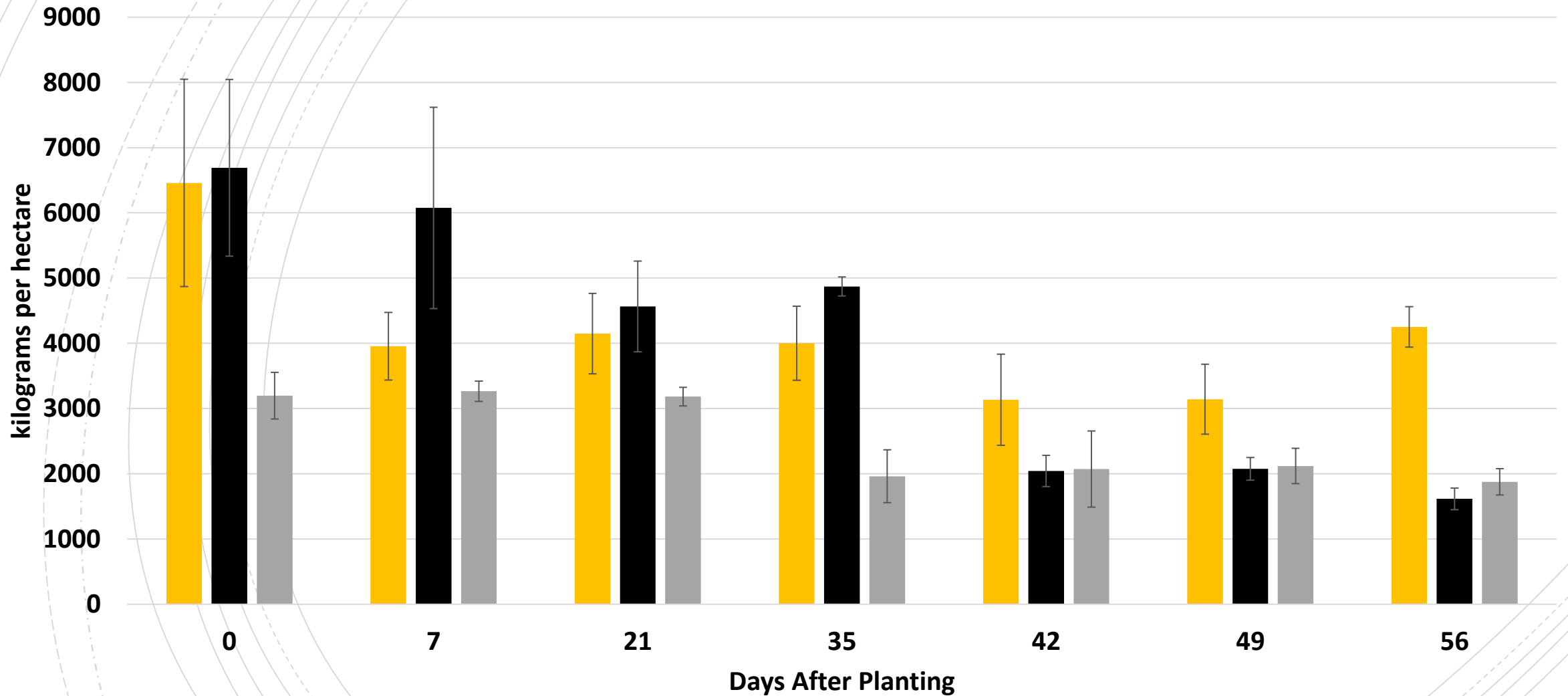
■ High Residue ■ Conventional



Means followed by the same letter do not differ significantly across all bars (p=0.05)

Rye Biomass Decomposition

■ 2019 Henry ■ 2020 Henry ■ 2020 Macon

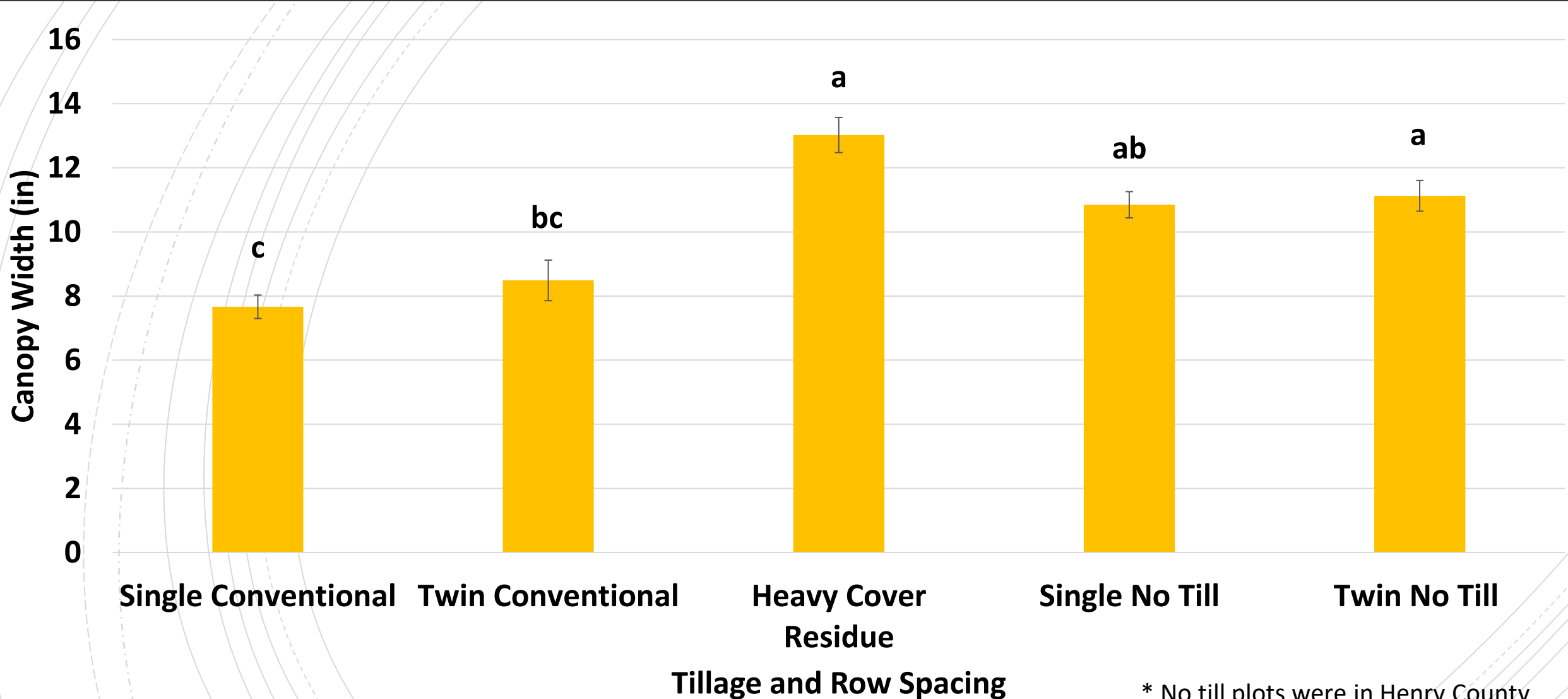


How to Control PPO and ALS Resistant Palmer in Peanut ???

I mean after Palmer showing resistance to Cadre, Strongarm, Classic, Valor, Cobra, Ultra Blazer, Aim...

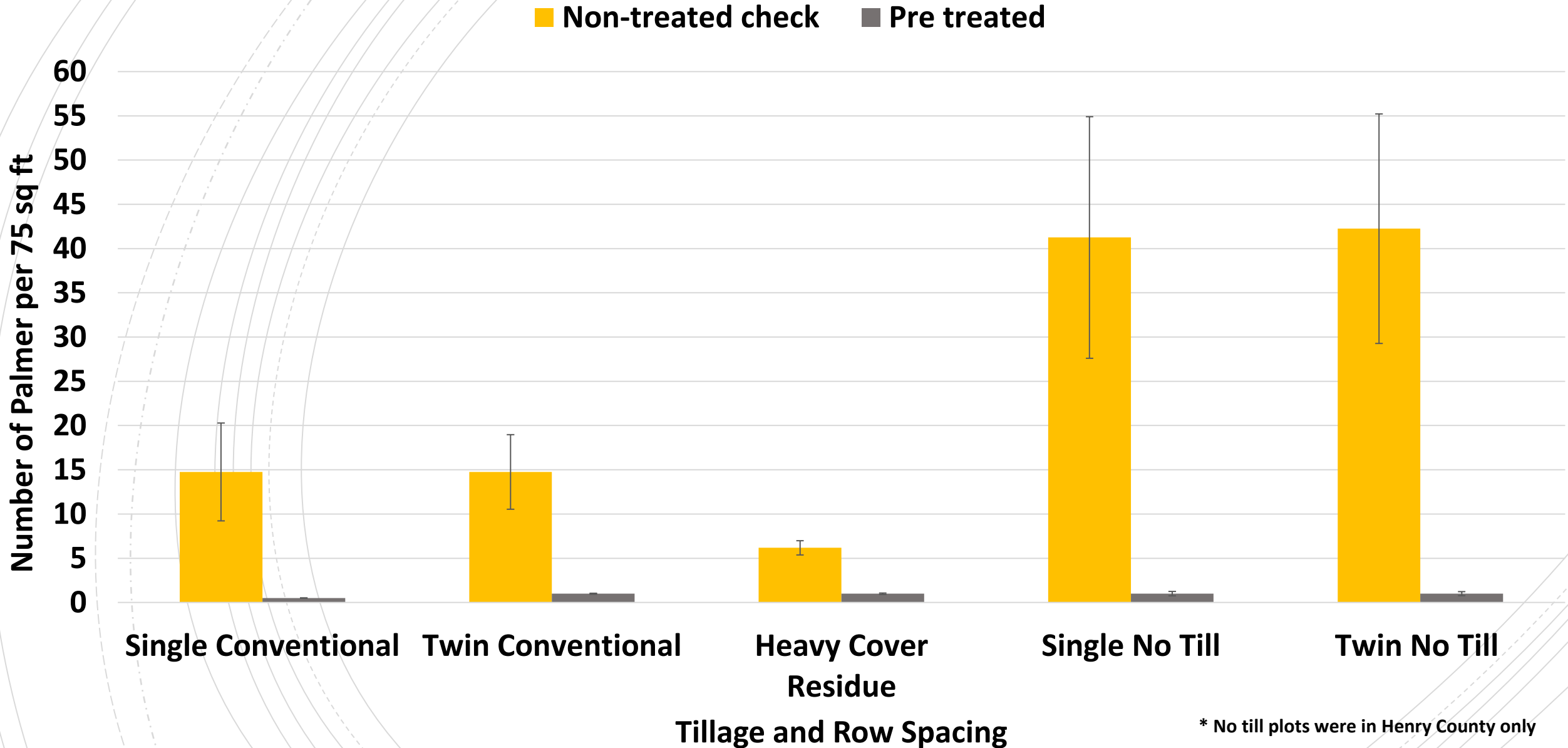
We don't have Liberty, dicamba and Enlist in peanut, unfortunately!

Peanut Canopy Width 35 Days after Planting



Means followed by the same letter do not differ significantly $p=0.05$

Palmer Counts 70 Days After Planting



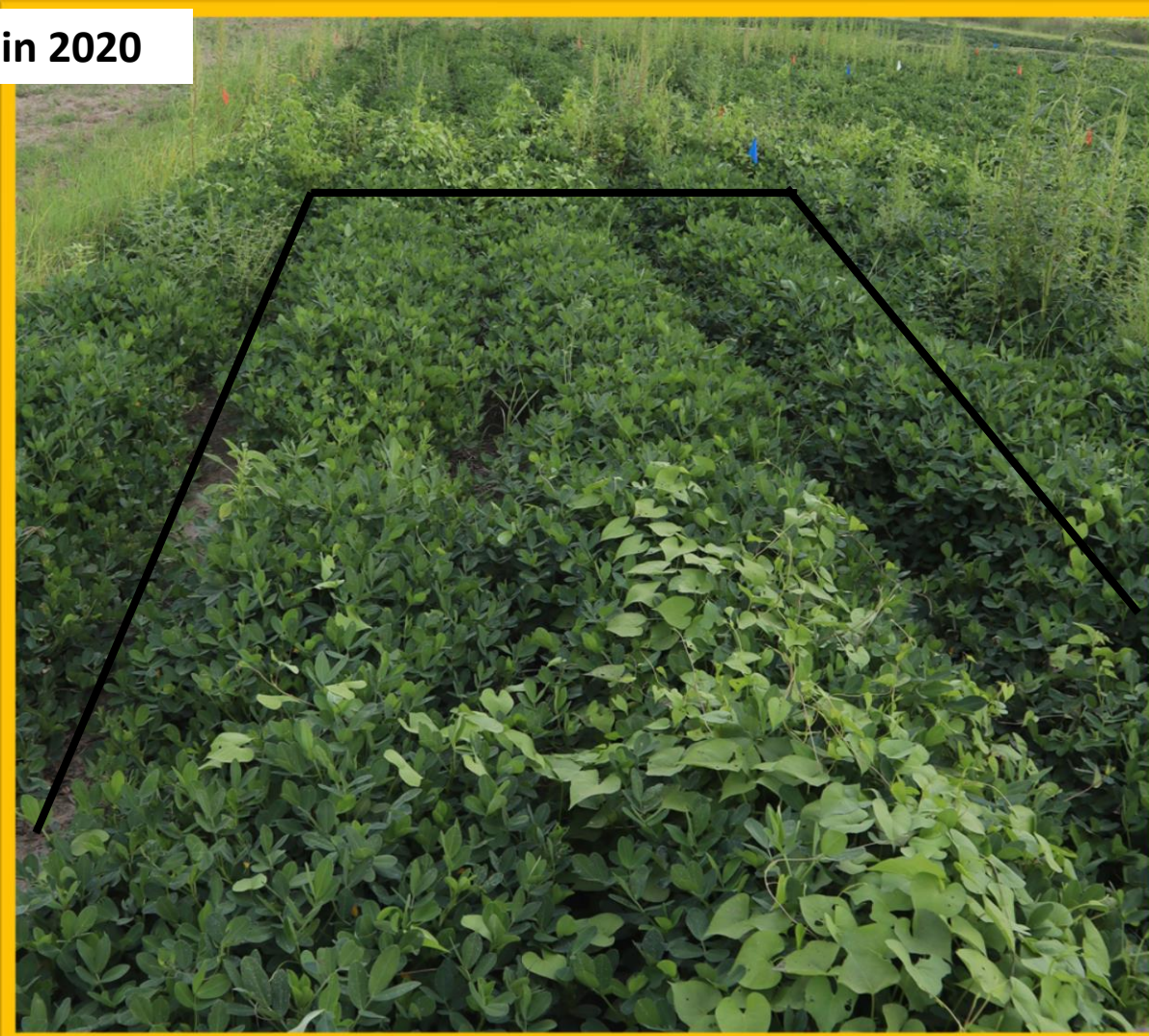
67 DAP in 2020



**Single Row, Conventionally Tilled
Non-Treated
Shorter, AL**

**Single Row, Conventionally Tilled
PRE: Warrant 3 pt + Solicam 1.8lb+ Prowl H2O 2 pt/A,
POST: 2,4 DB 16 oz + Cadre 3 oz + Dual Magnum 1.33 pt/A
@40 DAP. Shorter, AL**

72 DAP in 2020



**Twin Row, No Till
Non-Treated
Headland, AL**

**Twin Row, Conventionally Tilled
PRE: Warrant 3 pt/A + Solicam 1.8lb/A+ Prowl H20 2 pt/A
POST: 2,4 DB 16 oz + Cadre 3 oz + Dual Magnum 1.33 pt/A
@40 DAP. Headland, AL**

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