

The background of the slide is a dense, repeating pattern of peanuts in their shells, rendered in a light beige or off-white color. The peanuts are oriented in various directions, creating a textured, organic background.

# **Peanut weed control and drone update**

**Steve Li. Extension Specialist, Associate Professor.  
Auburn University**

# **Peanut weed control**

- **Nothing new or really exciting in foreseeable future**
- **Biggest threats are Group 15 resistance (Dual) and PPO resistance pigweeds (Valor)**
- **Gramoxone still works, but future is unclear**
- **Still no good answers for large sicklepod and coffee weed (spray timing is everything)**
- **Tropical spiderwort remains a decent size problem**
- **Herbicide injury x insect x early planting date**

# Tropical spiderwort control (30 DAT, June 22)



**NTC**



**Valor 3 oz/A**



**Valor 3 oz + Warrant 3pt**



**Valor 3oz + Strongarm 0.225oz**



**NTC, Pictures taken 79 DAP (Aug 10)**



**Valor + Strongarm 0.225 oz/A (PRE,  
May 22)**

**Cobra 12.5 oz + Strongarm 0.225 oz  
+ 24DB 16 oz + Dual Magnum 16  
oz/A (30 DAP)**

**Pictures taken 79 DAP (Aug 10)**

**Final control rating: 86.25%**



**Warrant 3pt + Strongarm 0.45oz/A  
(PRE)**

**Cobra 12.5 oz + 24DB 16 oz + Dual  
Magnum 16 oz/A (30 DAP)**

**Pictures taken 79 DAP (Aug 10)**

**Final Control efficacy: **92.5%** (Aug 10)**



**Left:**  
**NO PRE on May 16<sup>th</sup>**

**Gramoxone 8 oz +  
Storm 16 oz + Dual  
Mag 16 oz + NIS @  
June 1<sup>st</sup>**

**Cadre 4 oz + DB 16 oz  
+ Dual Mag 16 oz + NIS  
@ June 13<sup>th</sup>**

**Right:**  
**Valor 3 oz + Prowl  
H2O 32 oz on May 16<sup>th</sup>**

**Cadre 4 oz + DB 16 oz  
+ Dual Mag 16 oz + NIS  
@ June 13<sup>th</sup>**







**NTC Henry Co 46 DAT**



**Valor 3 oz + Dual Magnum  
22 oz, Henry Co 46 DAT**



**GA-06G Valor 3 oz/A  
Henry County 22 DAP**



**Valor 3 oz/A + Strongarm 0.45 oz/A  
Henry County 22 DAP**



**GA 06G**  
**Valor 6 oz/A + Strongarm 0.9**  
**oz/A**  
**Henry County 22 DAP**



**GA-06G NTC**  
**Henry County 22 DAP**



**GA-06G Valor 3 oz/A  
Macon County 48 DAP**



**GA 06G**

**Valor 3oz/A + Strongarm**

**0.45 oz/A**

**Macon County 48 DAP**

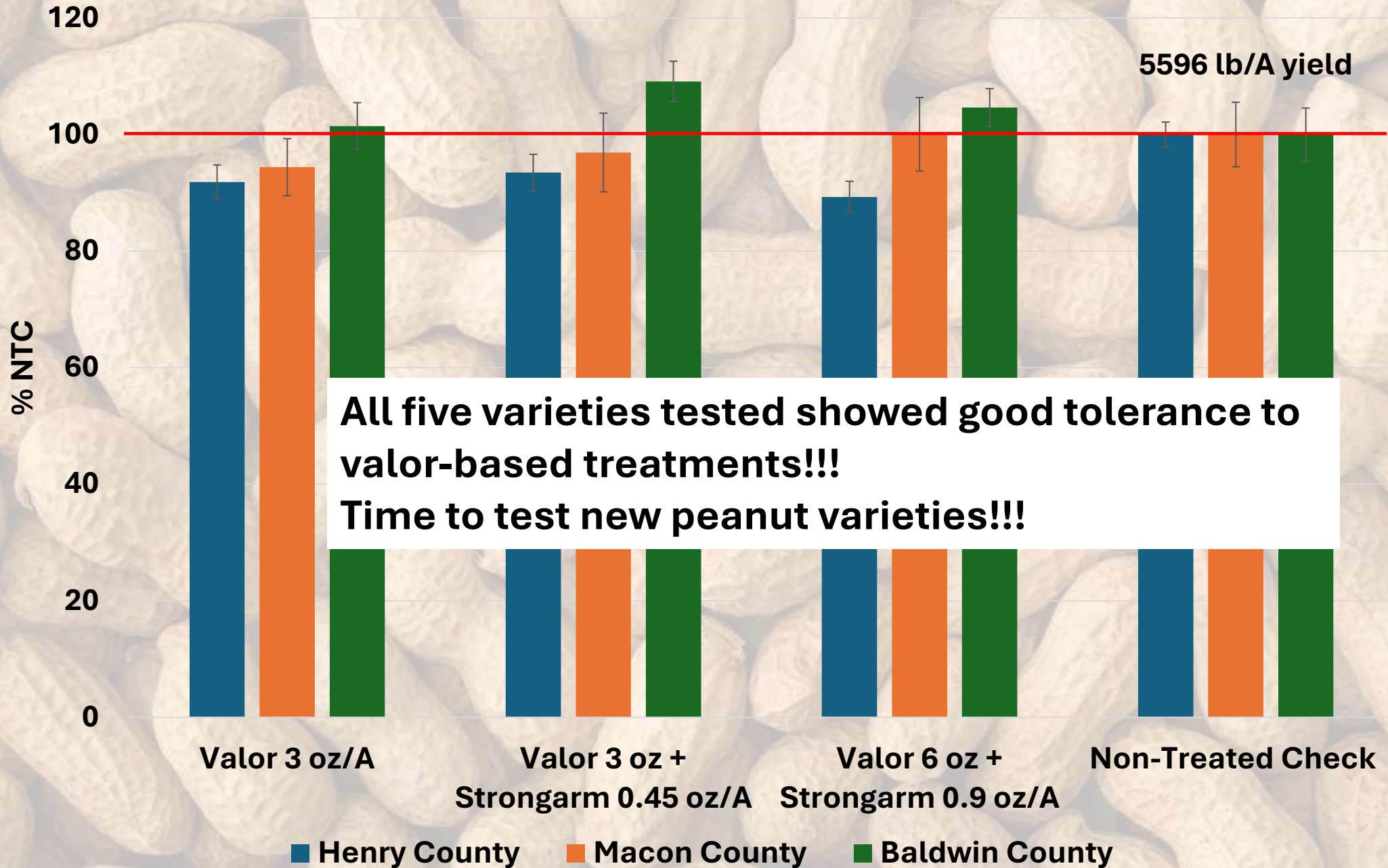


**GA 06G**  
**Valor 6 oz/A + Strongarm 0.9 oz/A**  
**Macon County 48 DAP**





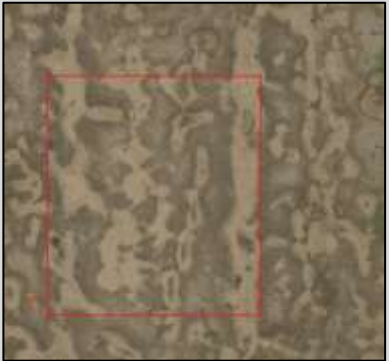
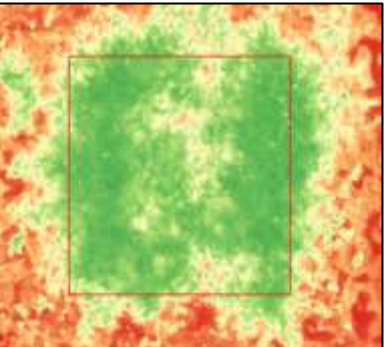
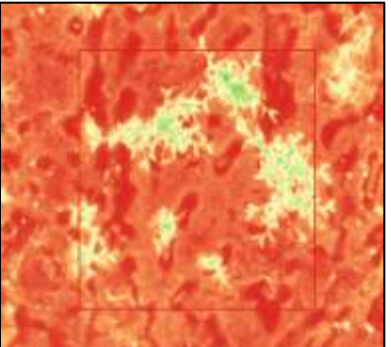
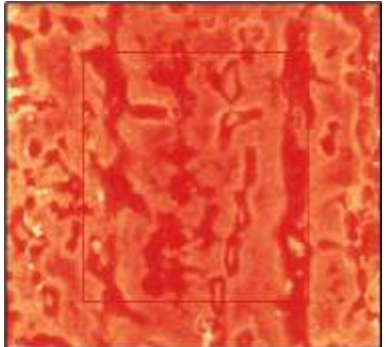
**GA-O6G NTC  
Macon County 48 DAP**

# Yield 141-164 days after planting




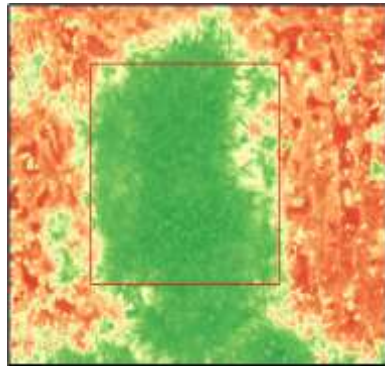
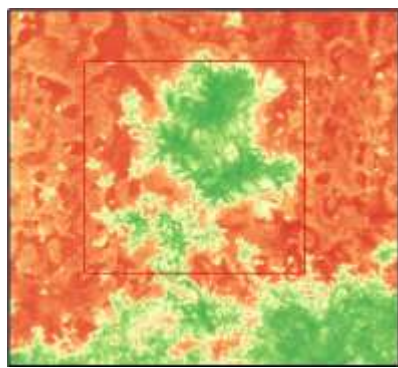
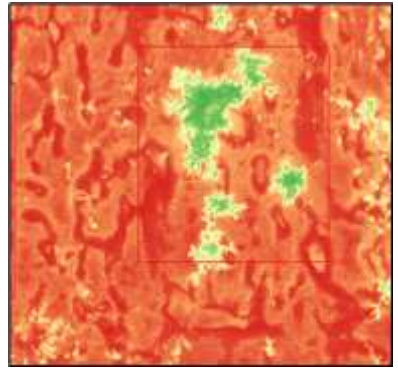




- **large crabgrass at 42 DAT (Macon Co.):**

	<b>Nontreated</b>	<b>Warrant</b>	<b>Anthem Flex</b>
<b>Picture</b>			
<b>NDVI</b>			

- **Texas panicum at 42 DAT (Macon Co.):**

	<b>Nontreated</b>	<b>Warrant</b>	<b>Anthem Flex</b>
<b>Picture</b>			
<b>NDVI</b>			





**NTC**



**Anthem flex 4 oz/A  
Irrigated plot, under shade, XR nozzle  
33% injury at 3 DAT**



**Anthem flex 4 oz/A  
Dry plot, under full sun, XR nozzle  
17% injury at 3 DAT**

**July 3<sup>rd</sup>, 2024. Headland AL. Injury was less than 6% for all treatments at 14 DAT**

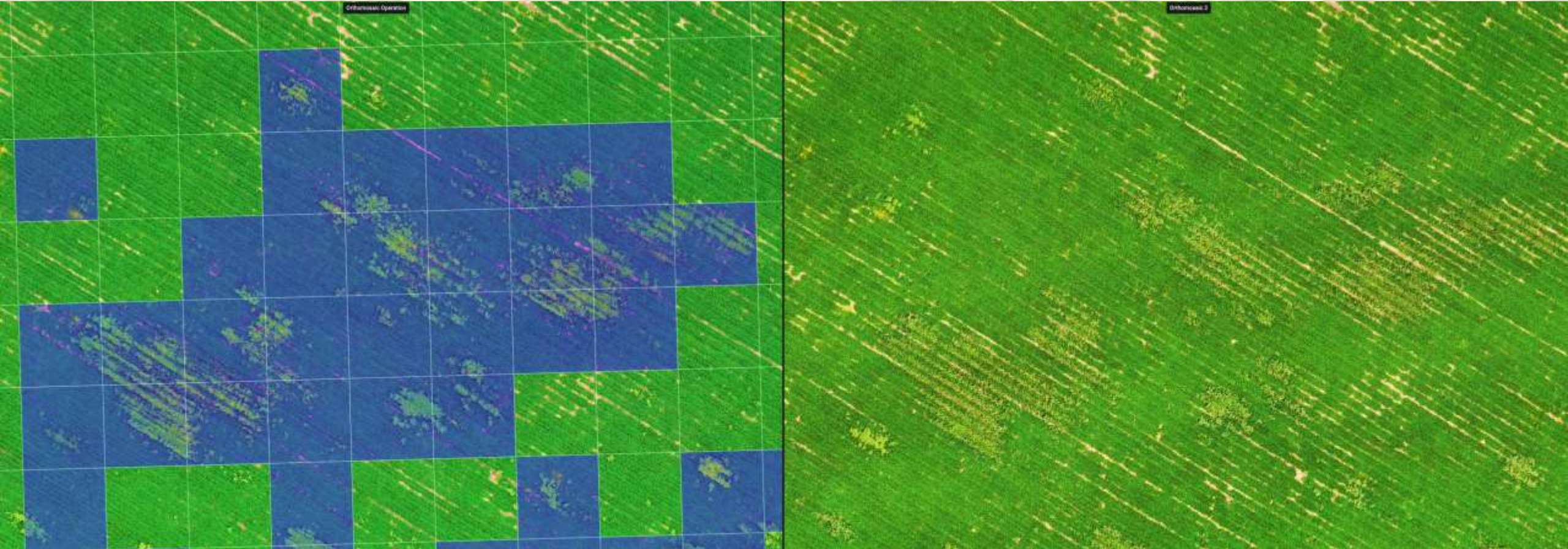
**Anthem flex 4 oz + Cadre 3 oz + DB 16 oz/A. Irrigated plot, sunny, AIXR nozzle. 3 DAT**



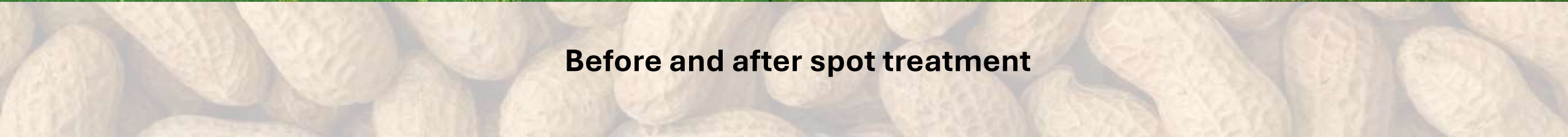
**Anthem flex 4 oz + Cadre 3 oz + DB 16 oz/A. Irrigated plot, under shade, AIXR nozzle. 3 DAT**

**Anthem flex 4 oz + Cadre 3 oz + DB 16 oz/A. Dry, sunny, AIXR nozzle. 3 DAT**





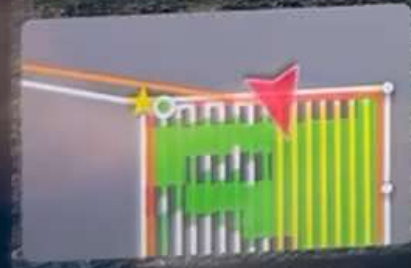
**30 acre field, only 12 acres were sprayed to capture > 90% of weeds survived previous herbicide application. Over 60% of herbicide saving (\$14.6 per acre herbicide saving)**



**Before and after spot treatment**

Route (RTK)

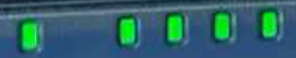
RTK 31 28% 1.23<sub>out</sub>



Altitude(Ft)	Speed(ft/s)	Distance(Ft)
13.4	5.0	1466.2
Flow(Gal/Min)	Comple	
0.0	5.6	

End

Paused













July 11, 2024  
Lee county peanut  
Cobra and Aim were  
sprayed





Cobra 12.5 oz/A at 5 GPA



Aim 2 oz/A at 5 GPA















**Precision spot spraying with individual nozzles on JD sprayer with Exactapply**

**This sprayer does not have See & Spray**



6 GPA



12 GPA

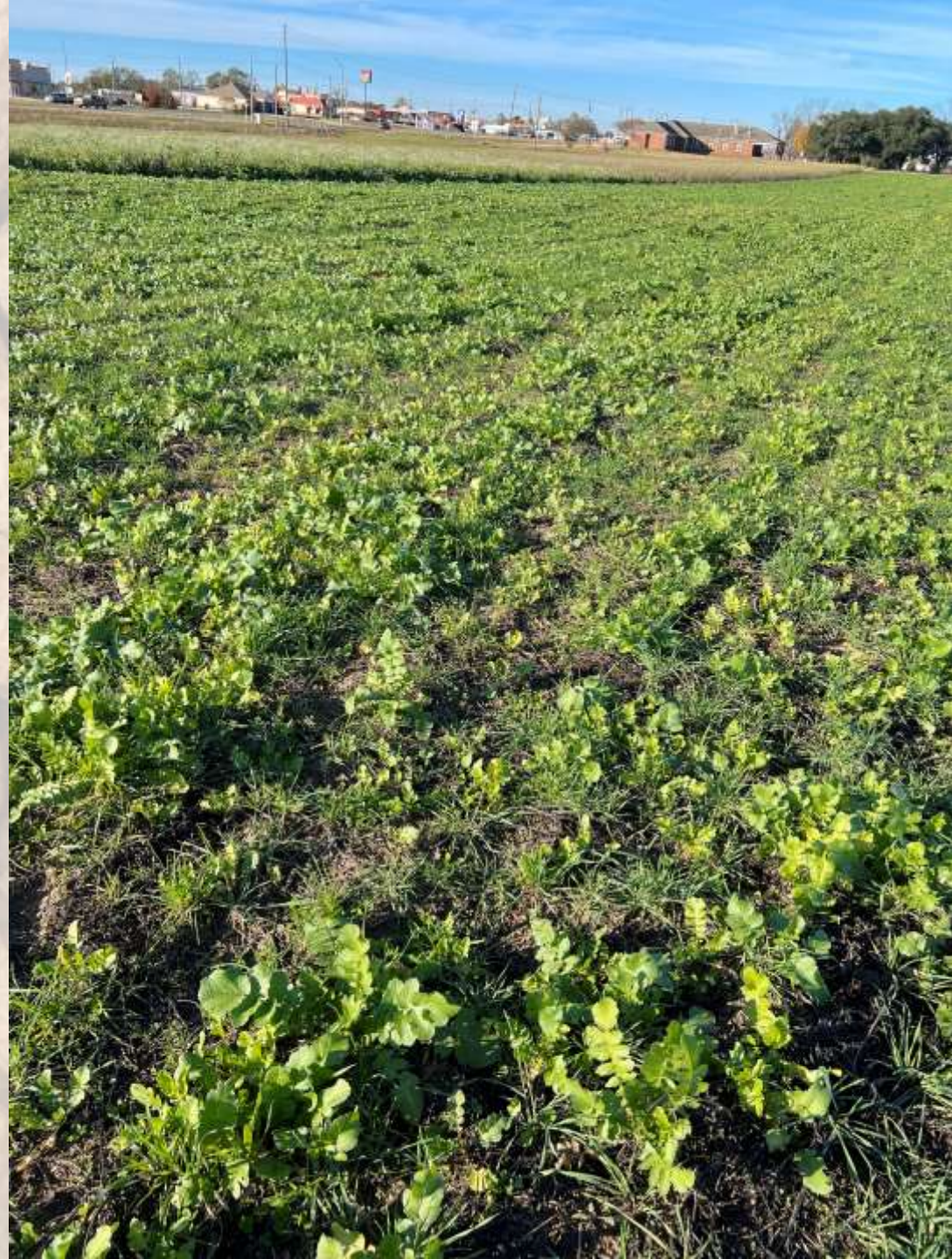


12 GPA

9 GPA

6 GPA

Precision spot application + VR Pix application





**Sep 25, 2024. Headland AL. Sunn hemp + sorghum spread before corn harvest**

Questions???

334-707-7370

[steveli@auburn.edu](mailto:steveli@auburn.edu)

Thanks for ALFA for providing funding

Cotton and peanut check-off at work!!!

