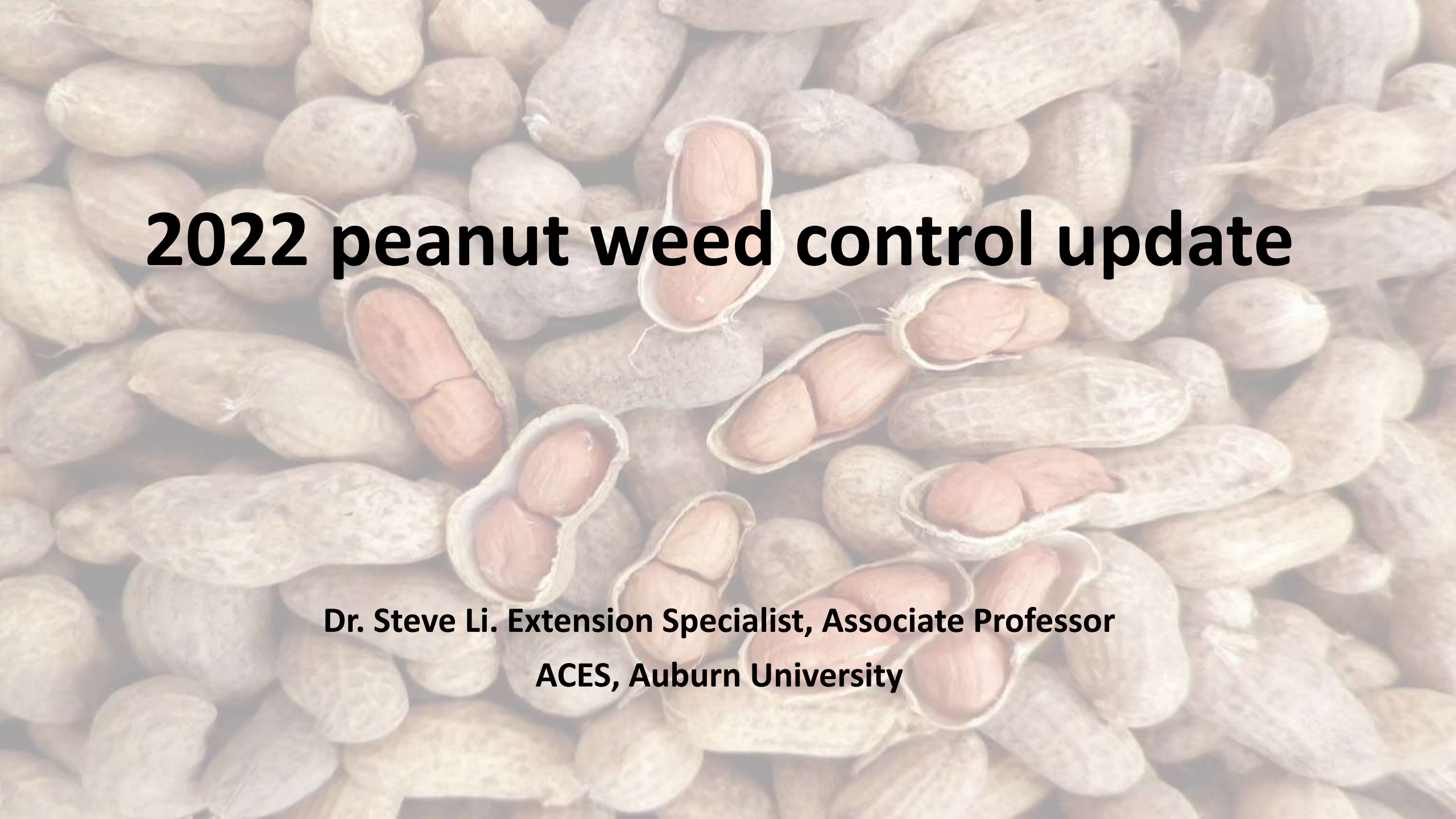




2022 peanut weed control update

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



2021 June precipitation:

Fairhope AL: 9.18 in (normal year 6.78 in)

Atmore AL: 11.11 in (normal year 6 in)

Mobile AL: 14.22 in (normal year 6.55 in)

Pensacola FL: 12.26 in (normal year 7.32 in)

Geneva AL: 7.53 in (normal year 6.26 in)

Chipley FL: 8.79 in (normal year 5.29 in)

Montgomery AL: 9.09 in (normal year 4.08 in)

Selma AL: 5.96 in (normal year 4.32 in)

Troy AL: 6.56 in (normal year 5.11 in)

To summarize summer of 2021:

Wet Wet Wet!!!



Weed control failures from AL peanut growers in summer 2021
Many fields did not receive any timely postemergence treatment
Multiple growers consulted for rescue treatments



Peanut fields I visited in the fall of 2019 and 2020

Flail Mower and Peanut – 2021

Before



Flail Mower and Peanut – 2021

After (2 passes in opposite directions, ~2 MPH)



Picture credit to Dr. Eric Prostko, UGA Tifton



Weed Wiper with Paraquat Application in Peanut

Photos from Alabama Cooperative Extension-Wiregrass Agronomy Team









No cereal rye residue



2500 lb/A cereal rye residue



10000 lb/A cereal rye residue



No cereal rye residue



2500 lb/A cereal rye residue



10000 lb/A cereal rye residue



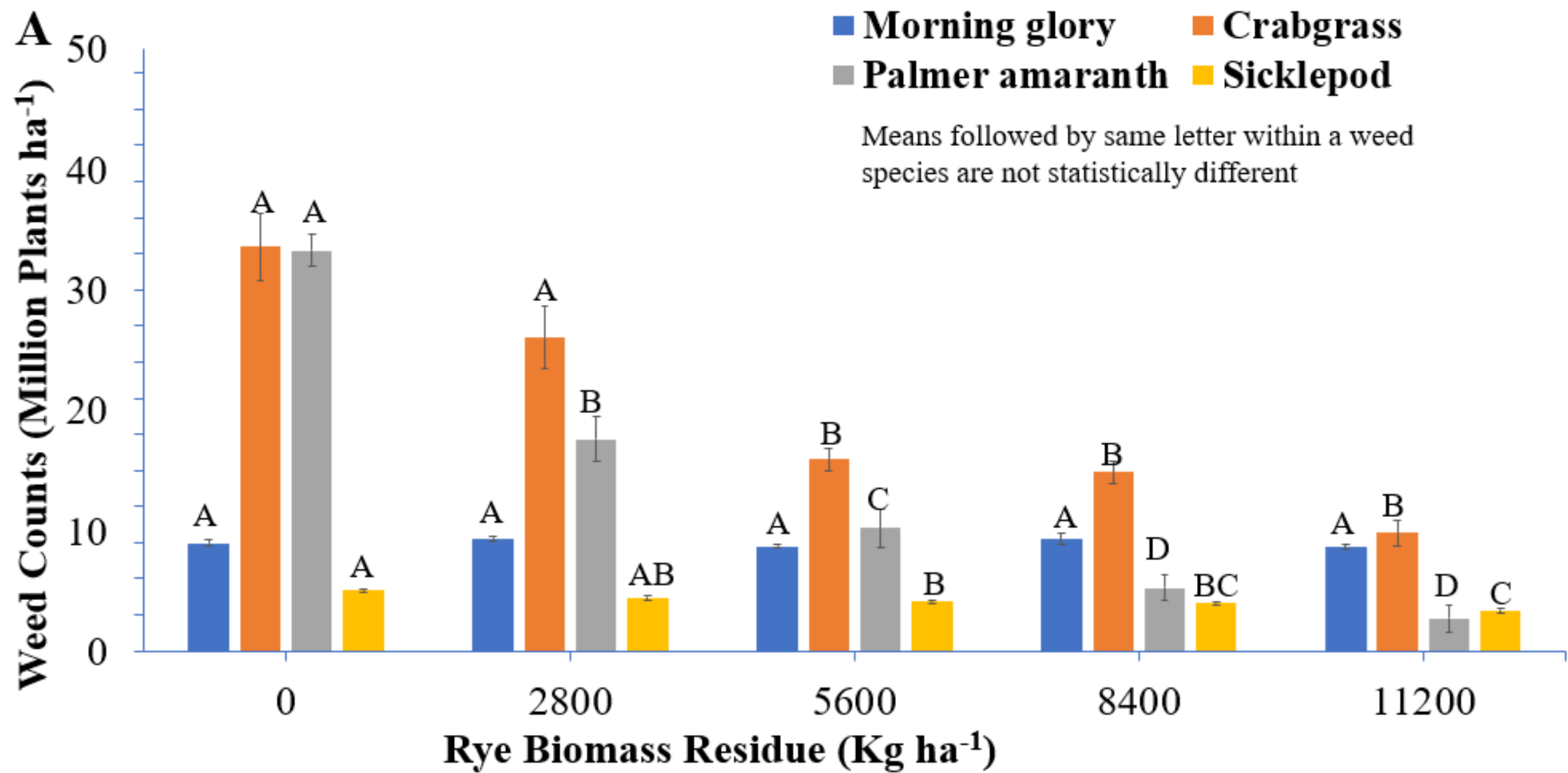
No cereal rye residue



2500 lb/A cereal rye residue



10000 lb/A cereal rye residue



Skipperville, AL 2018 (35 DAT)



NTC



Valor 3 oz/A



Brake 32 oz/A

Henry County Peanut Trial (68 DAP)



High Residue (Strongarm PRE)



Bareground (Strongarm PRE)

Henry County Peanut Trial (68 DAP)



Heavy Residue (Valor PRE)



Bareground (Valor PRE)

2021 Henry County Peanut trial (56 DAP)



NTC-bareground



**Valor 3 oz + Warrant 3 pt/A PRE
Cadre 3 oz + 24DB 1 pt + Dual Magnum
1 pt/A POST**



**Brake 24 oz + Gramoxone 2 pt/A PRE
Cadre 3 oz + 24DB 1 pt + Dual Magnum
1 pt/A POST**

2021 Henry County Peanut trial (56 DAP)



Valor 3 oz + Warrant 3 pt/A PRE
Gramoxone 12 oz + Storm 1 pt/A POST 1
Cadre 3 oz + 24DB 1 pt + Dual Magnum 1 pt/A POST 2



Valor 3 oz + Warrant 3 pt/A PRE
Gramoxone 12 oz + Storm 1 pt/A POST 1
Cadre 3 oz + 24DB 1 pt + Anthem Flex 4 oz/A POST 2



Brake 16 oz + Warrant 3 pt/A PRE
Gramoxone 12 oz + 24DB 1 pt + Zidua 3 oz/A POST 1
Cadre 3 oz + 24DB 1 pt + Dual Magnum 1 pt/A POST 2

2021 Henry County Peanut trial (56 DAP)



**Warrant 3 pt + Brake 16 oz/A PRE
Cadre 3 oz + 24DB 1 pt + Dual Magnum
1 pt/A POST**



**Warrant 3.2 pt + Gramoxone 2 pt/A PRE
Cadre 3 oz + 24DB 1 pt + Dual Magnum
1 pt/A POST**



**Brake 24 oz + Gramoxone 2 pt/A PRE
Cadre 3 oz + 24DB 1 pt + Dual Magnum
1 pt/A POST**

2021 Henry County Peanut trial (56 DAP)



Warrant 3 pt + Brake 16 oz/A PRE

**Cadre 3 oz + 24DB 1 pt +
Dual Magnum 1 pt/A POST**



Warrant 3 pt + Brake 16 oz/A PRE

**Gramoxone 12 oz + 24DB 16 oz +
Zidua 3 oz/A POST 1**

**Cadre 3 oz + 24DB 1 pt +
Dual Magnum 1 pt/A POST2**



Brake 24 oz/A PRE

**Cadre 3 oz + 24DB 1 pt +
Dual Magnum 1 pt/A POST**



Brake 24 oz/A PRE

**Gramoxone 12 oz + 24DB 16 oz +
Zidua 3 oz/A POST 1**

**Cadre 3 oz + 24DB 1 pt +
Dual Magnum 1 pt/A POST 2**



TSVW was common in Gramoxone treated peanut???



Brake 64 oz/A PRE (4X rate)

Brake 16 oz/A PRE (1X rate)

Pics taken May 27, 2020 (28 DAP)

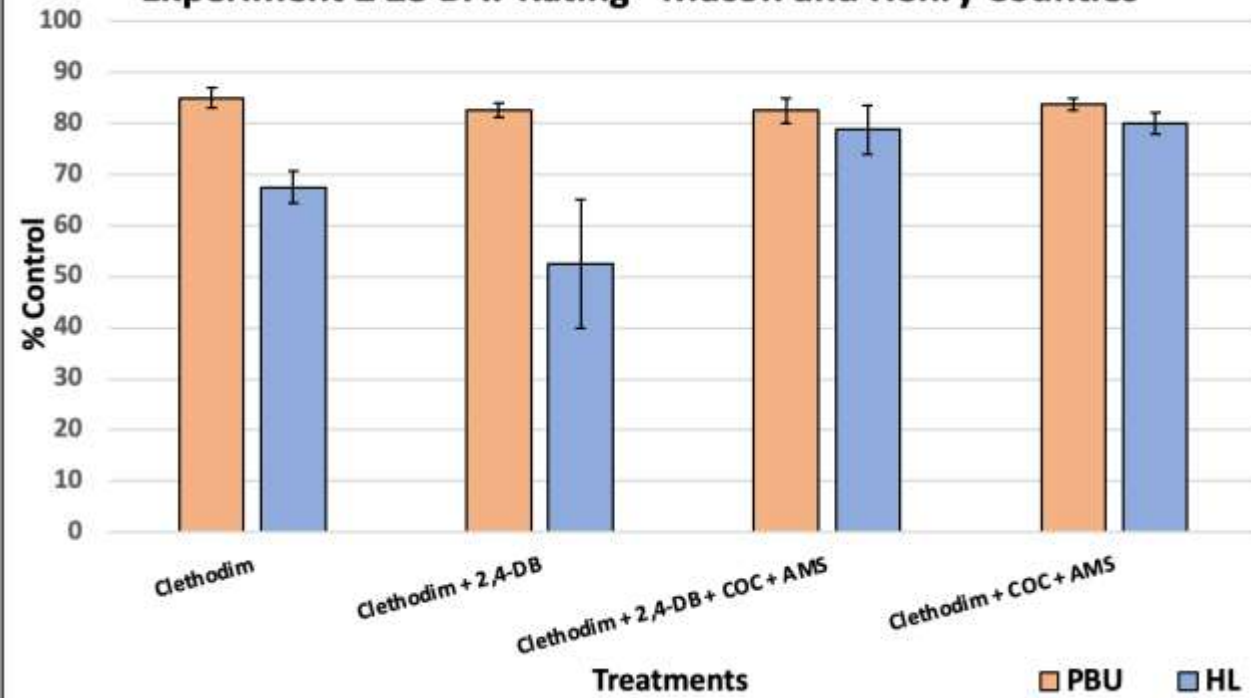


Valor 6 oz/A PRE



Valor 3 oz/A PRE

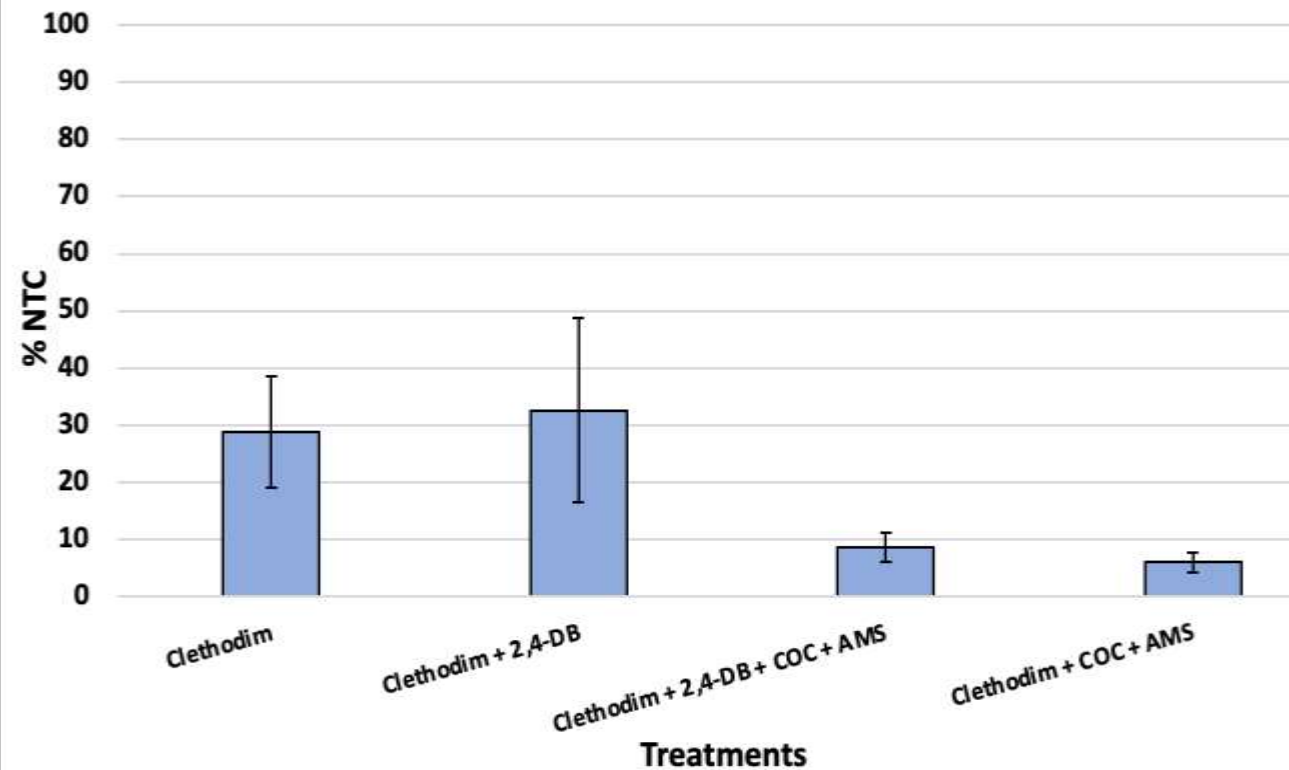
Experiment 2 28 DAT Rating - Macon and Henry Counties



**2,4-DB tank mixed with clethodim
can reduce efficacy on grass control**

**Addition of crop coil and AMS is
required**

Experiment 2 28 DAT Weights - Macon and Henry Counties





Alite 27 3 oz + Engenia 12.8 oz/A PRE on May 19
Liberty 32 oz + Outlook 12.8 oz + RU 32 oz + AMS POST on June 9



Alite 27 3 oz + Prowl H2O 2 pt/A PRE on May 19
Liberty 32 oz + Engenia 12.8 oz + Outlook 12.8 oz POST on June 9

July 12 2021, Headland AL

August 20 2021, Headland AL



**Alite 27 @ 1.5 oz + Engenia 12.8 oz/A
PRE on 7/29**

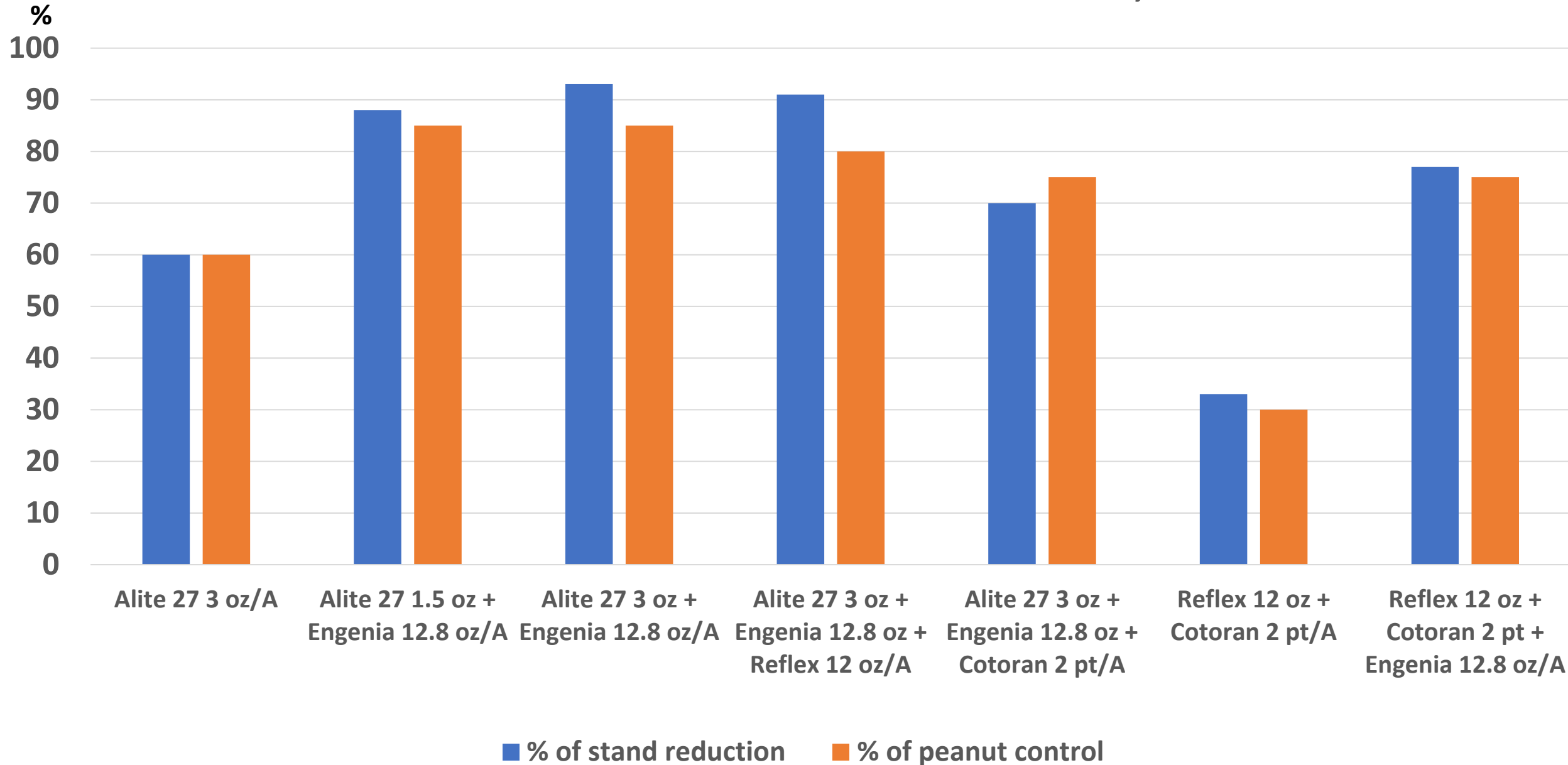
**Alite 27 @ 3 oz + Engenia 12.8 oz/A PRE
on 7/29**

**Reflex 12 oz + Cotoran 2 pt/A PRE on
7/29**



[Axant™ Flex Technology from BASF](#)
[Available in Stoneville and Fibermax Varieties in 2023](#)

GA-06G stand reduction and visual control 22 DAP, Headland AL



Tropical spiderwort: a persistent weed in peanut production



- **Strongarm half PRE and half POST**
- **Use 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**
- **Twin row and cover crop residue will help control**

- **Gramoxone is also highly effective on this weed**
- **2,4-D (Enlist) is very effective in Enlist cotton, but 2,4-DB does not injure this weed at all!!!**

Thoughts

- **Thrips, TSMV and paraquat injury interaction???**
- **Three application programs controlled weeds better than two applications**
- **Cereal rye + herbicides worked the best as expected**
- **Valor, Brake, Strongarm, Group 15 herbicides work well with cover crop residue**
- **Section 18 label for Brake**
- **Better volunteer peanut control in future cotton**
- **Clethodim alone + crop oil + AMS works the best**
- **Suppress tropical spiderwort is a long term work**

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**RESEARCH FUNDING
PROVIDED BY**

National 
Peanut Board

Alabama 
Peanut Producers Association

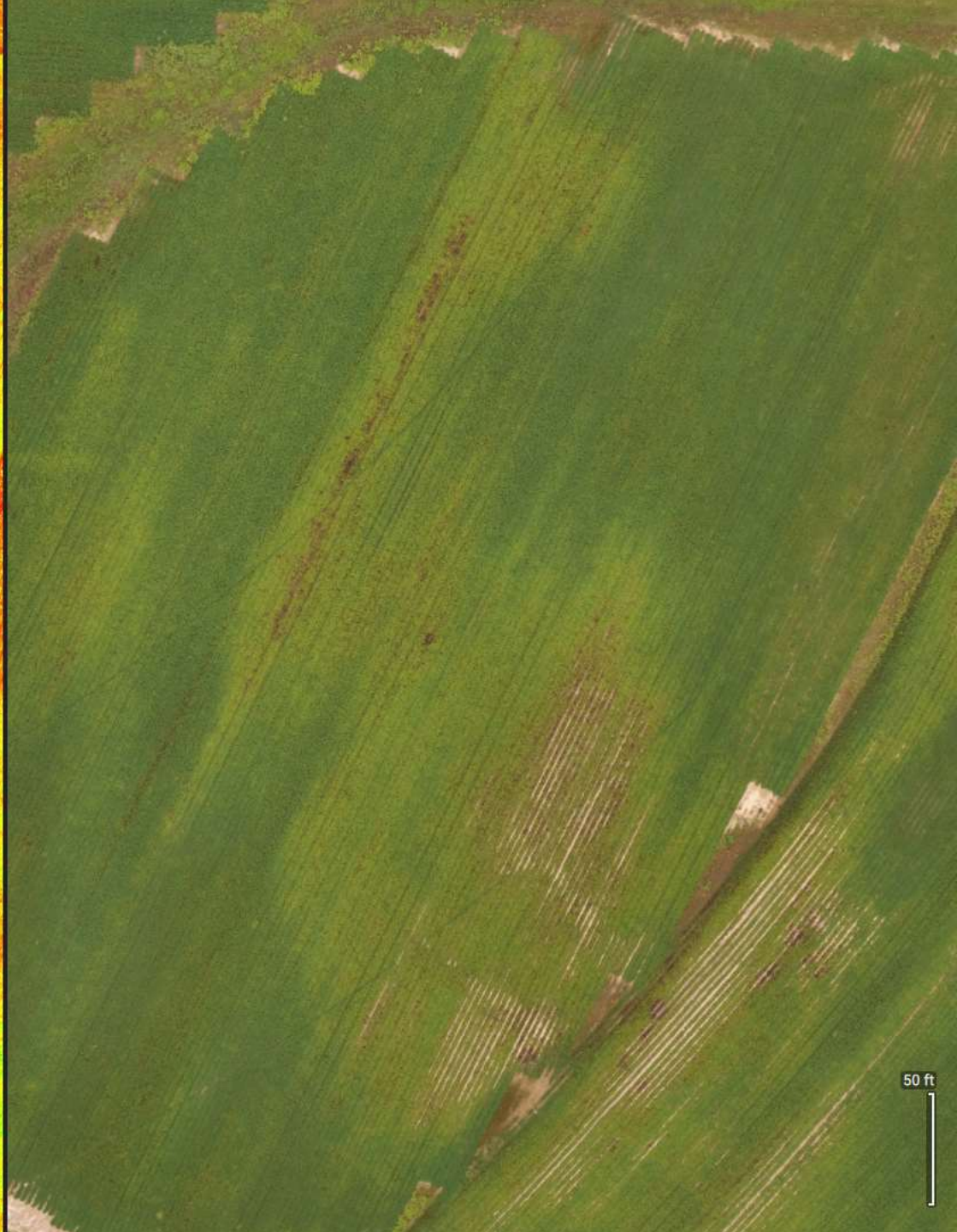
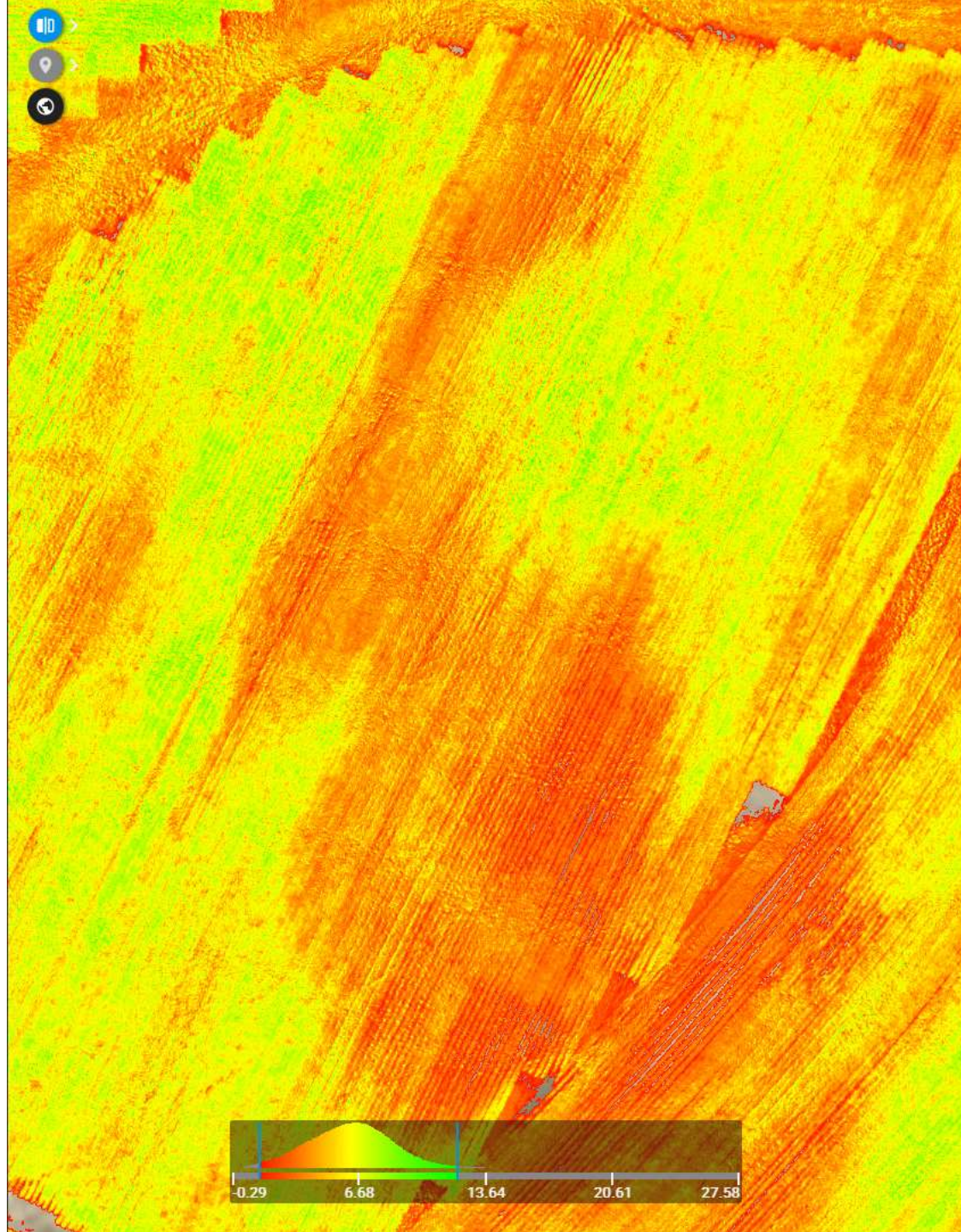
ACKNOWLEDGEMENTS

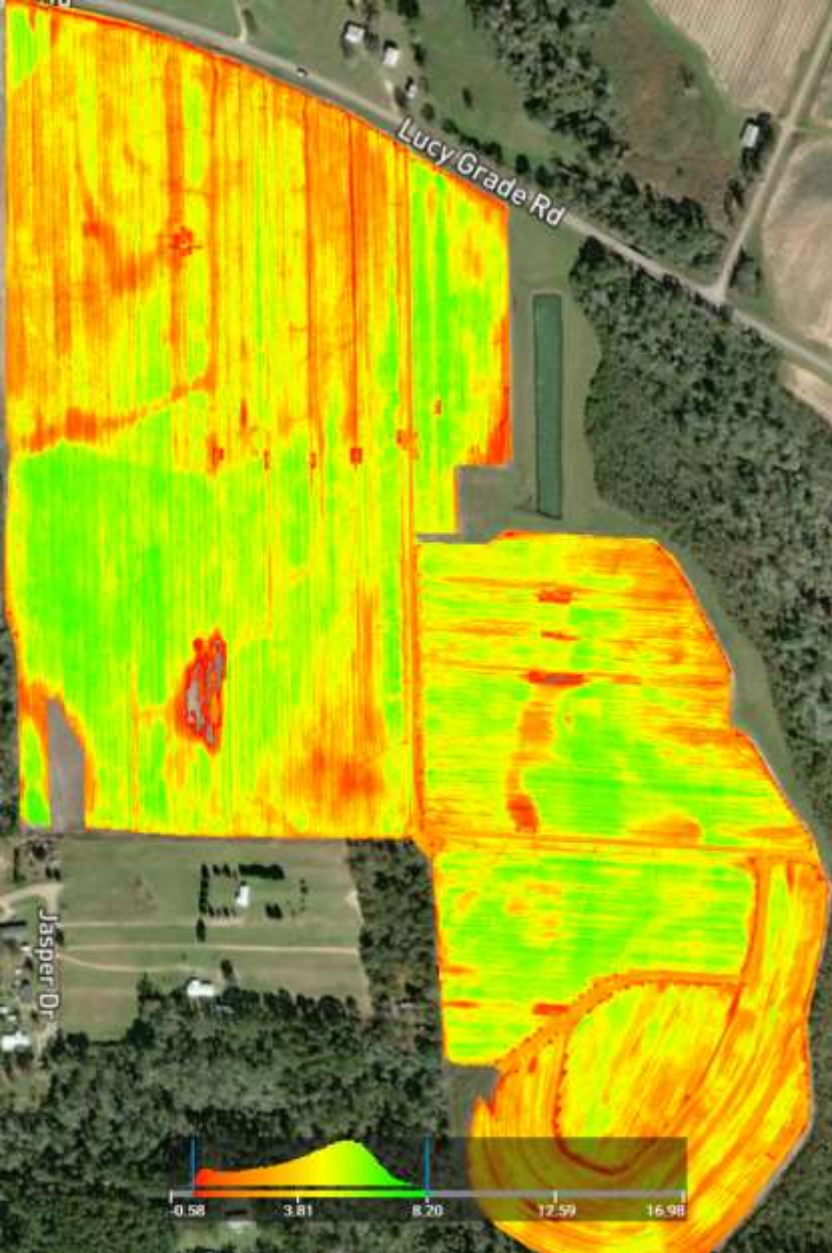
- **ALABAMA
AGRICULTURAL
EXPERIMENTAL STATION**
- **HERBICIDE RESEARCH
PROGRAM**
- **ACES EXTENSION
AGRONOMY TEAM**



Oct 4, 2021
Irrigated
peanut field
SE of Dothan

Photo credit:
Scott Deavers





July 16, 2021



Aug 11, 2021



Aug 26, 2021



Sep 10, 2021



Sep 20, 2021



Oct 4, 2021



Field results: UAS-based herbicide appl.



2 GPA
18.5 L ha⁻¹



4 GPA
37 L ha⁻¹



15 GPA
140 L ha⁻¹