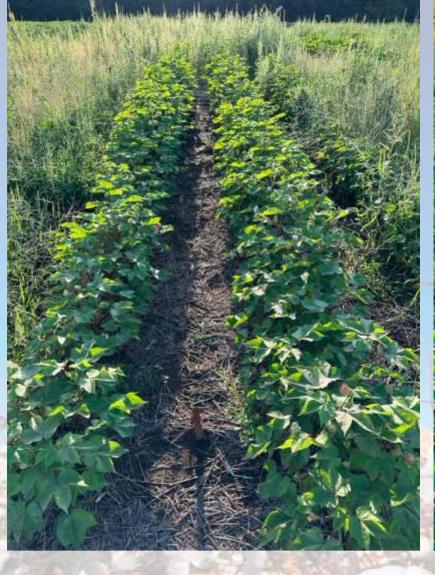
Weed Control Updates





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







Cotoran 16 oz + Alite 27 3 oz/A PRE

RUP PM3 30 oz + Engenia 12.8 oz + Outlook 12.8 oz/A POST

Cotoran 16 oz

RUP PM3 30 oz + Engenia 12.8 oz/A POST

NTC

Belle Mina AL. Sep 3rd, 2023





Alite 27 3 oz + dicamba at 28 DAP (Henry Co.)





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

Volunteer Peanut Control at 42 DAP 120 **ABC** ABC 100 **AB** 80 % Visual Control BCD B ABC BC C **60** – DC I 40 -20 -0 fornes Vic.



What is a good weed control strategy???

- Good burndown and start clean (Valor, Sharpen, Revition)
- Watch out for resistant ryegrass
- Two-way mix PRE behind planter (based on weed types)
- Use low rate for each product in two-way mix
- Spray first postemergence herbicides between 20-30 DAP based on timing, not scouting
- Add either Warrant, Dual Magnum or Outlook in first post with Roundup and Auxin
- 2nd post (Liberty + AMS + NIS) should go out around 14-21 days after 1st post
- The goal is to keep cotton field clean until 7-8 weeks after planting when plants are big enough to shade out new flush of weeds

What's new in cotton???

- New Liberty (L-glufosinate) with lower use rate
- Zalo (glufosinate + quizalofop premix)

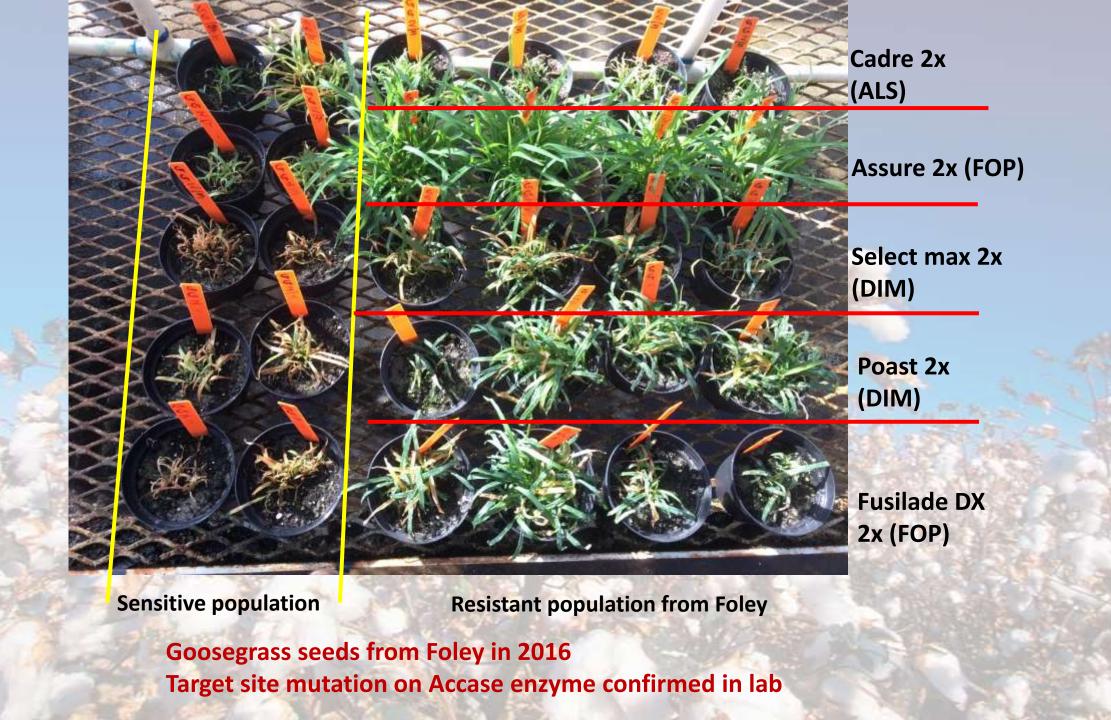
Peanut weed control

- Nothing new or really exciting in foreseeable future
- Biggest threats are herbicide resistance and PPO resistance pigweeds
- Gramoxone still works, but future is unclear
- Still no good answers for large sicklepod and coffeeweed (spray timing is everything)
- Tropical spiderwort remains a decent size problem
- Interaction of herbicide leaf burn, thrips and TSWV in early stage

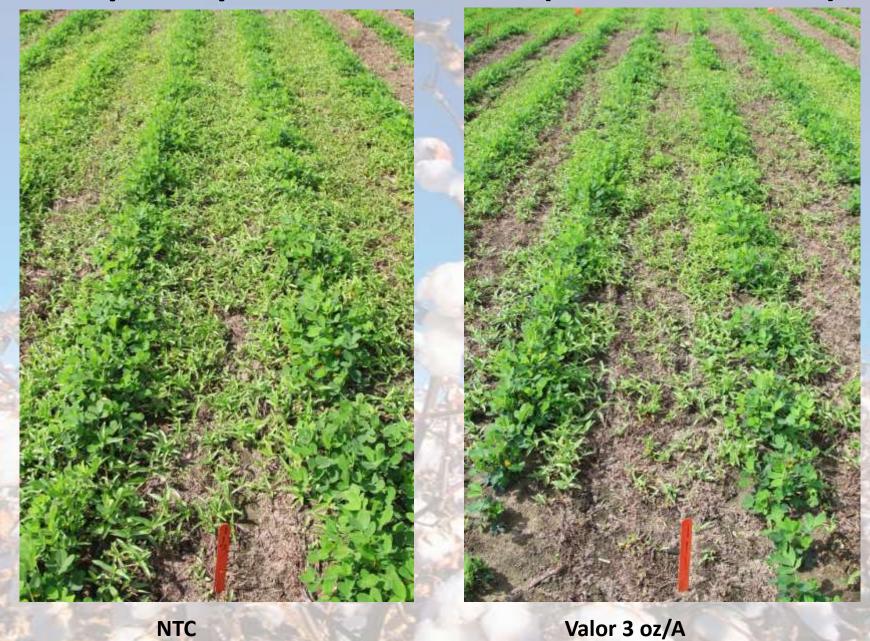




Goosegrass population from Foley in 2016



Tropical spiderwort control (30 DAT, June 22)



Valor 3 oz/A





Warrant 3pt + Strongarm 0.45 oz

Valor 3oz + Strongarm 0.45oz





NTC, Pictures taken 79 DAP (Aug 10)

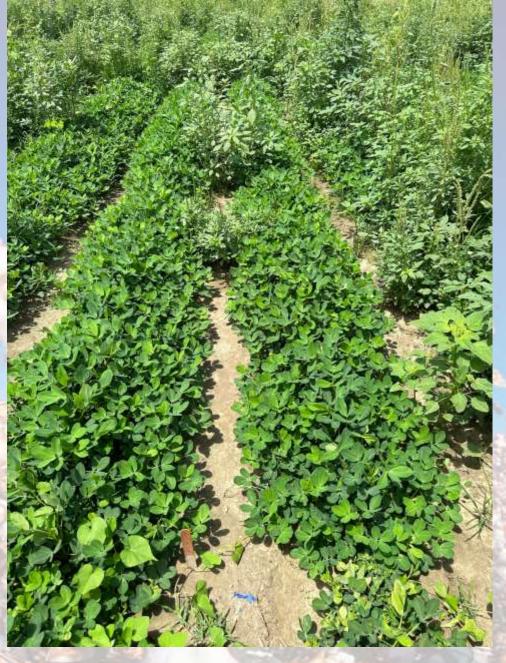




How to deal with tropical spiderwort???

- In peanut, Strongarm is the blessing. Split half and half is recommended
- Gramoxone is also very effective. Use Group 15 herbicide like Dual, Warrant and Outlook in PRE and 1st POST
- Control this weed in cotton is a challenge too, particularly Xtend cotton. NO PRE works very good on it
- Start with Warrant + Cotoran, followed by RUP + dicamba or Enlist + Dual Mag 3 weeks later, then Liberty 32 oz + Staple 2.5-3 oz/A + AMS





NO PRE on May 16th

Gramoxone 8 oz +
Storm 16 oz + Dual Mag
16 oz + NIS @ June 1st

Cadre + DB @ June 13th

NTC, July 14th 2023. Headland AL



Left: NO PRE on May 16th

Gramoxone 8 oz +
Storm 16 oz + Dual Mag
16 oz + NIS @ June 1st

Cadre 4 oz + DB 16 oz + Dual Mag 16 oz + NIS @ June 13th

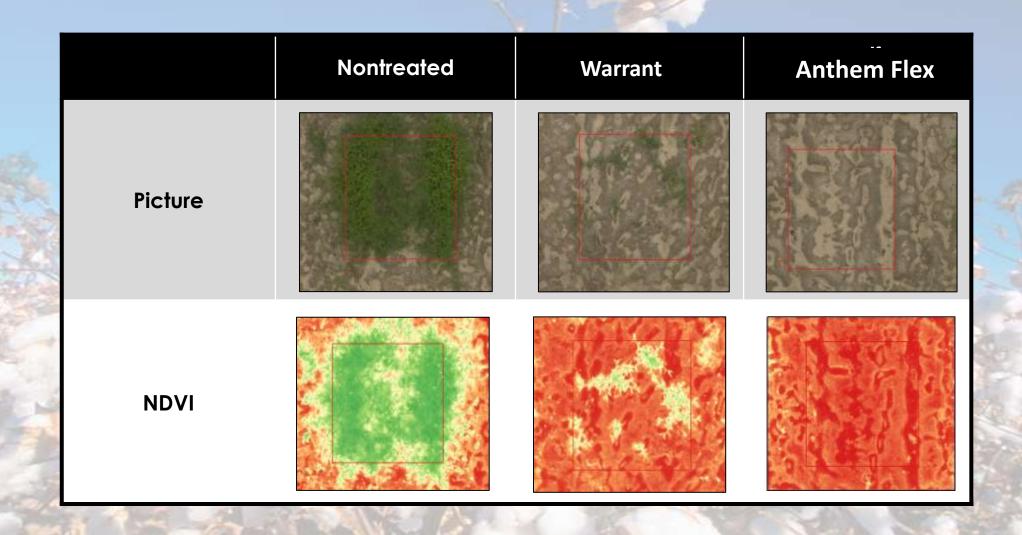
Right:

Valor 3 oz + Prowl H2O 32 oz on May 16th

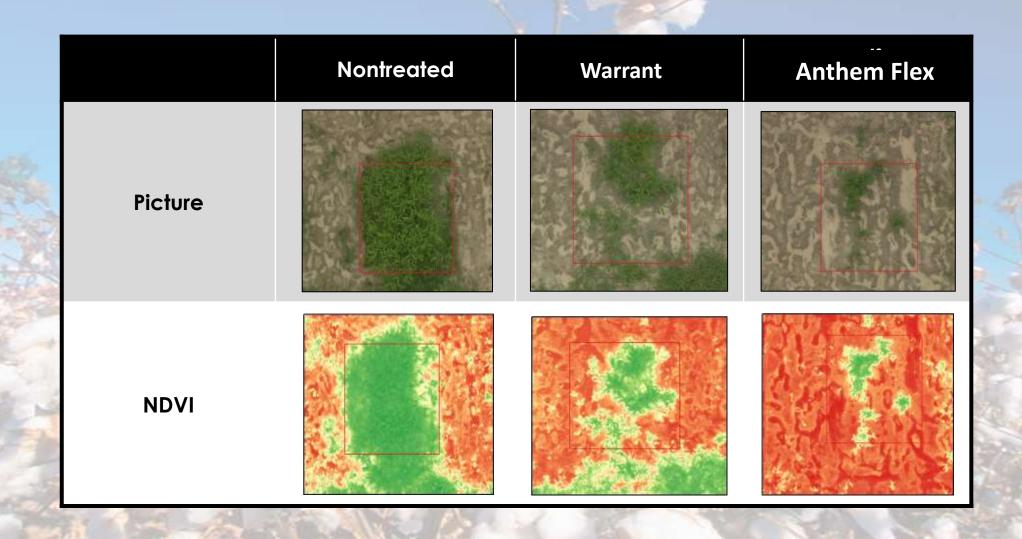
Cadre 4 oz + DB 16 oz +
Dual Mag 16 oz + NIS @
June 13th

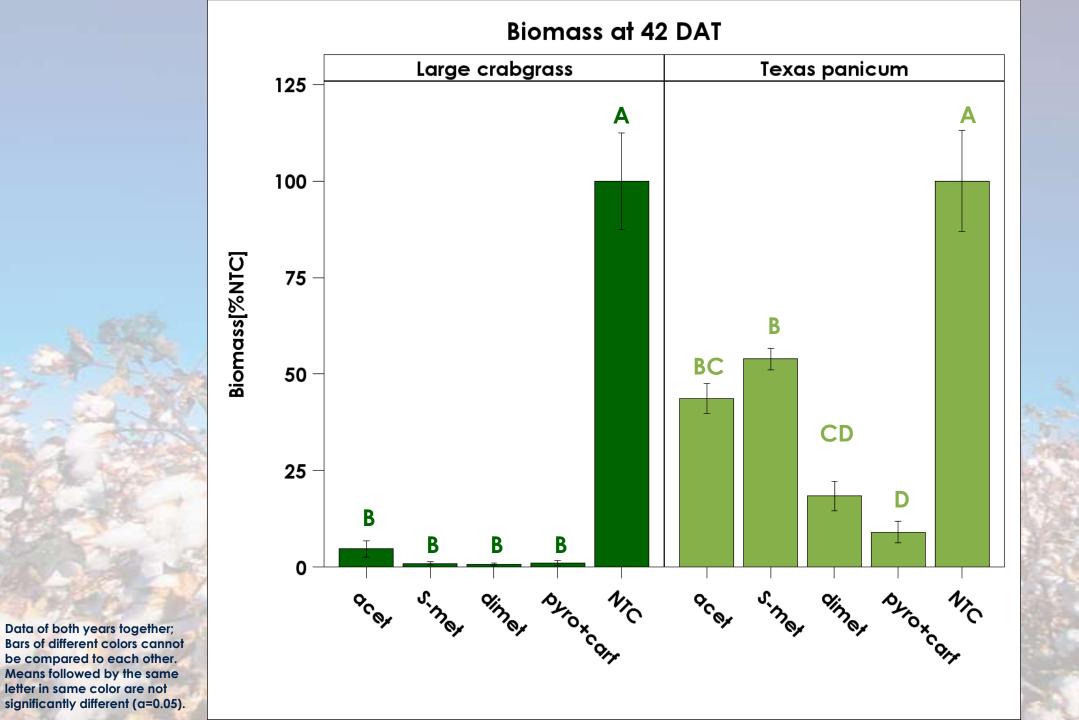


large crabgrass at 42 DAT (Macon Co.):



Texas panicum at 42 DAT (Macon Co.):





Marestail burndown-Autauga county AL

Roundup PM 32 oz + Sharpen 1 oz/A + Interlock 0.5% v/v Marestail was 6-18 inches tall in general, glyphosate resistant biotype T30, 20 ft wide swath, 2 GPA, 15.5 MPH, 10 ft altitude, AM 11001



Untreated





Treated











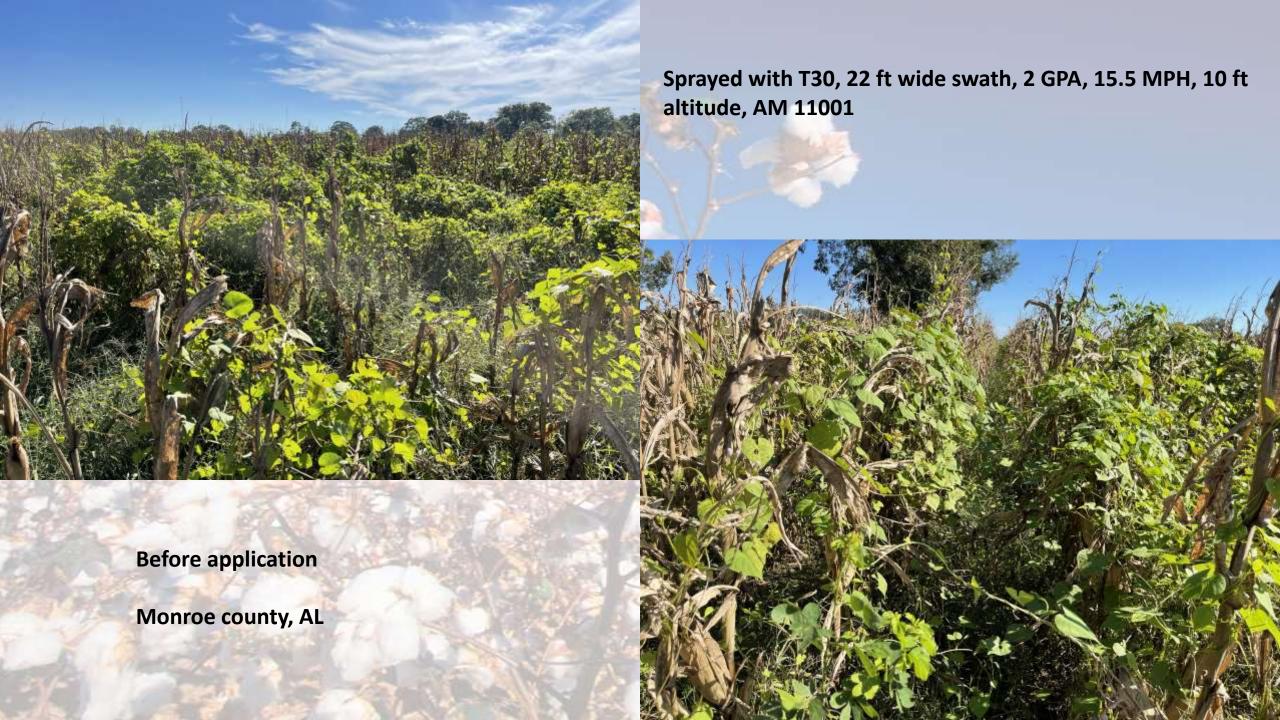
Bellefonte, Pennsylvania

Veltyma fungicide sprayed at 7 oz/A with 0.5 oz/A of Justified (drift reducing agent and deposition aid)

2 GPA with T40

13 ft height, 32 fps, 27-28 ft swath width

Photo credit to:
Tyler Fleck and Flecks Ag Services of
Warriors Mark, Pennsylvania













Airplane at 3 GPA

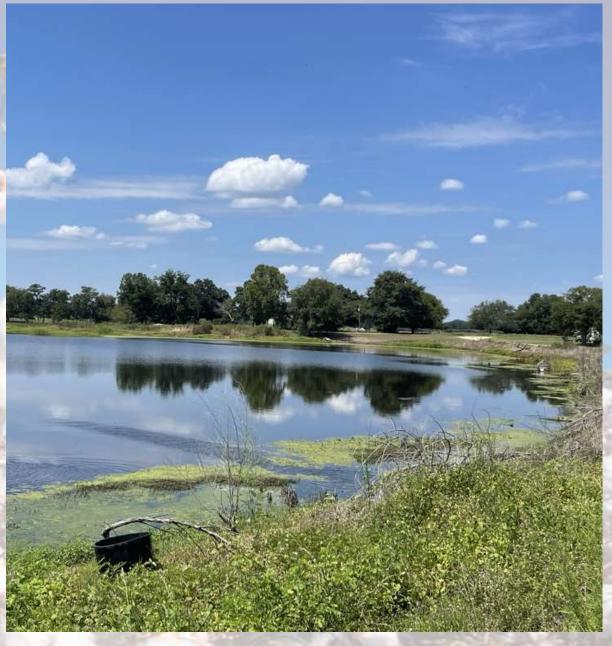


T30, Airmix 11001, 2 GPA, 15 ft height/25 ft swath, 15.6 MPH

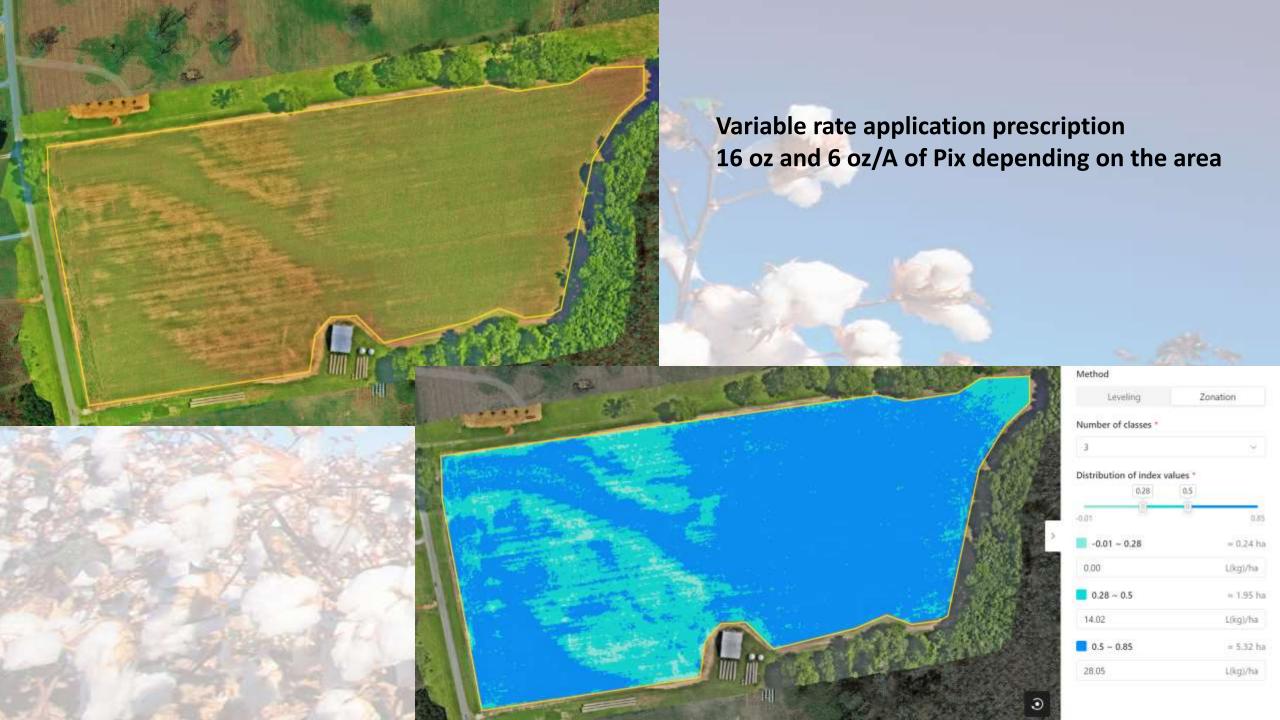








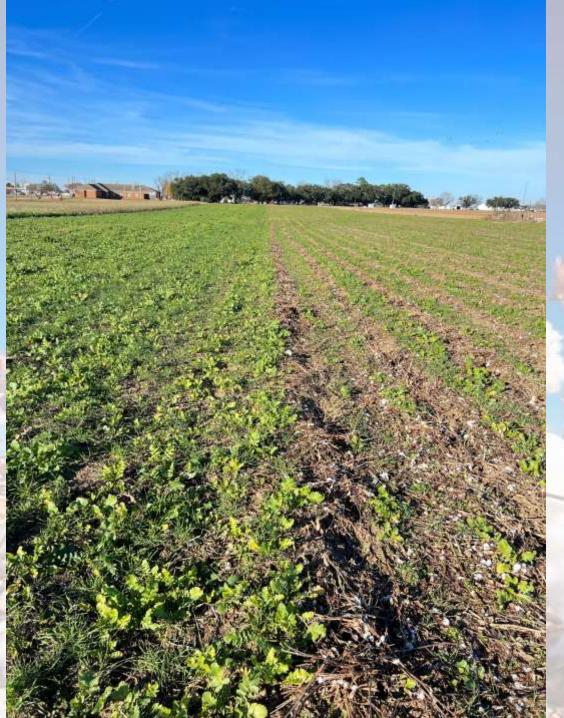






3 way mix was spread right before peanut digging

Spreading date: Oct 10, 2023. Headland AL



3 way mix was spread 4 days after cotton defoliation

Spreading date: Oct 10, 2023. Headland AL



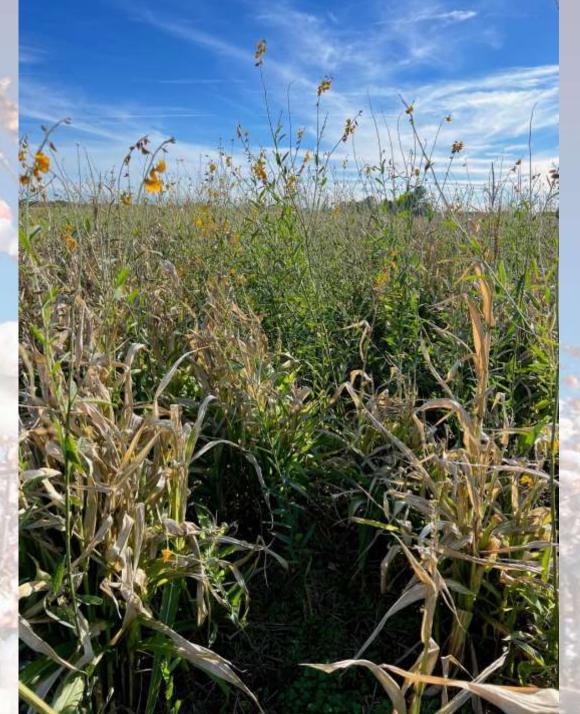






Dec 12, 2023











Scan this QR code for registration page

- The 2nd spray drone end user conference
- Feb 26-29, 2024. Gulf Shore, AL
- In-person event with virtual option (limited to presentations)
- Presentations and latest updates from FAA, EPA, AAPCO, Crop Life of America, global spray drone task force, CA DPR, researchers, equipment manufactures, experienced operators, etc.
- Panel discussions and field demo of 4 drone brands and auto mixing trailer

Questions??? steveli@auburn.edu

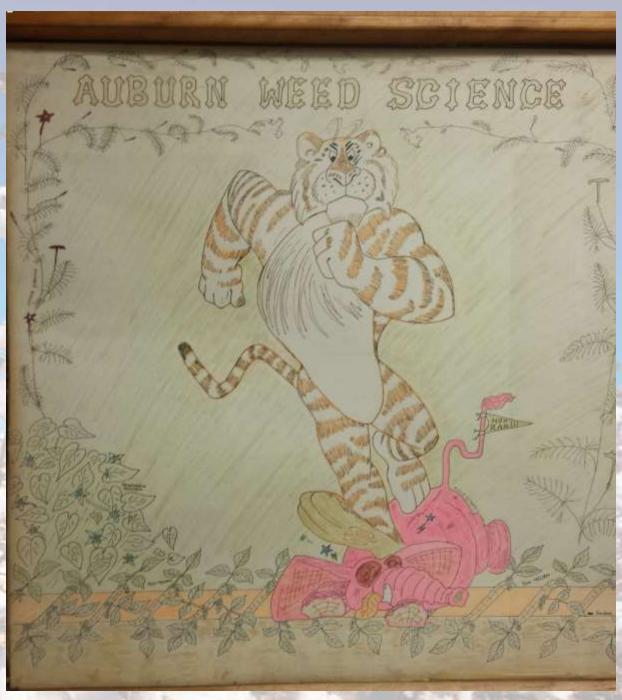
Questions???

334-707-7370

steveli@auburn.edu

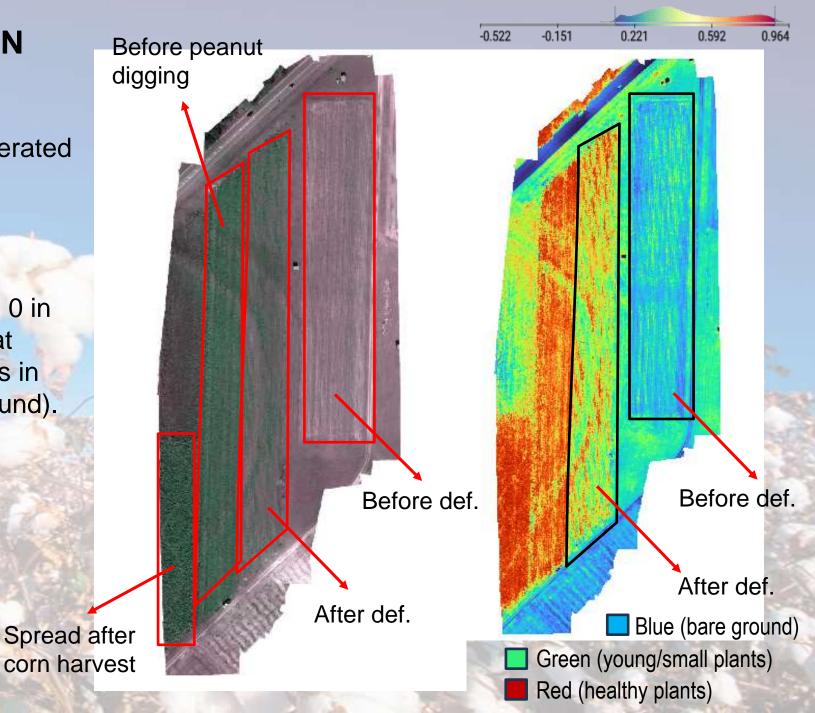
Thanks for ALFA for providing funding Cotton and peanut check-off at work!!!





IMAGERY DATA COLLECTION

- Red, green, and blue ortho mosaic and NDVI map generated from Headland cotton field
- Flight date: 01/15/2023
- The NDVI index is closer to 0 in the blue spots, meaning that there are less healthy plants in those spots (more bare ground).





Left:

NO PRE on May 16th

Gramoxone 8 oz +
Storm 16 oz + Dual Mag
16 oz + NIS @ June 1st

Cadre 4 oz + DB 16 oz +
Anthem Flex 3 oz @
June 13th

Right: NO PRE on May 16th

Gramoxone 8 oz +
Storm 16 oz + Dual Mag
16 oz + NIS @ June 1st

Cadre + DB @ June 13th





Left:

Reflex 10 oz/A PRE

RUP PM3 and Liberty 30 and 29 oz/A POST

Right:

Alite 27 1.5 oz/A PRE

RUP PM3 and Liberty 30 and 29 oz/A POST

Headland AL Aug 25th 2023





Left:

Reflex + Alite 27 10 oz and 1.5 oz/A PRE

RUP PM3 +
Engenia +
Outlook 30 + 12.8
+ 12.8 oz/A POST

Right:

Reflex + Alite 27 10 oz and 1.5 oz/A PRE

RUP PM3 + Liberty + Outlook 30 + 29 + 12.8 oz/A POST

Headland AL Aug 25th 2023





