Weed Control and Spray Drone Updates





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

No Dicamba in any fashion and format!!! NO PRE NOR POST!!! No formulation is legal!!!





Xtendimax (22oz/a) +
Roundup Powermax
(32 oz/a) followed by
Liberty (29 oz/a) + Dual
Magnum (22 oz/a) 4
days after initial
treatment



Day of initial application (June 15 2017)



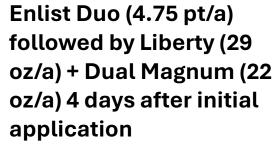




14 DAIT











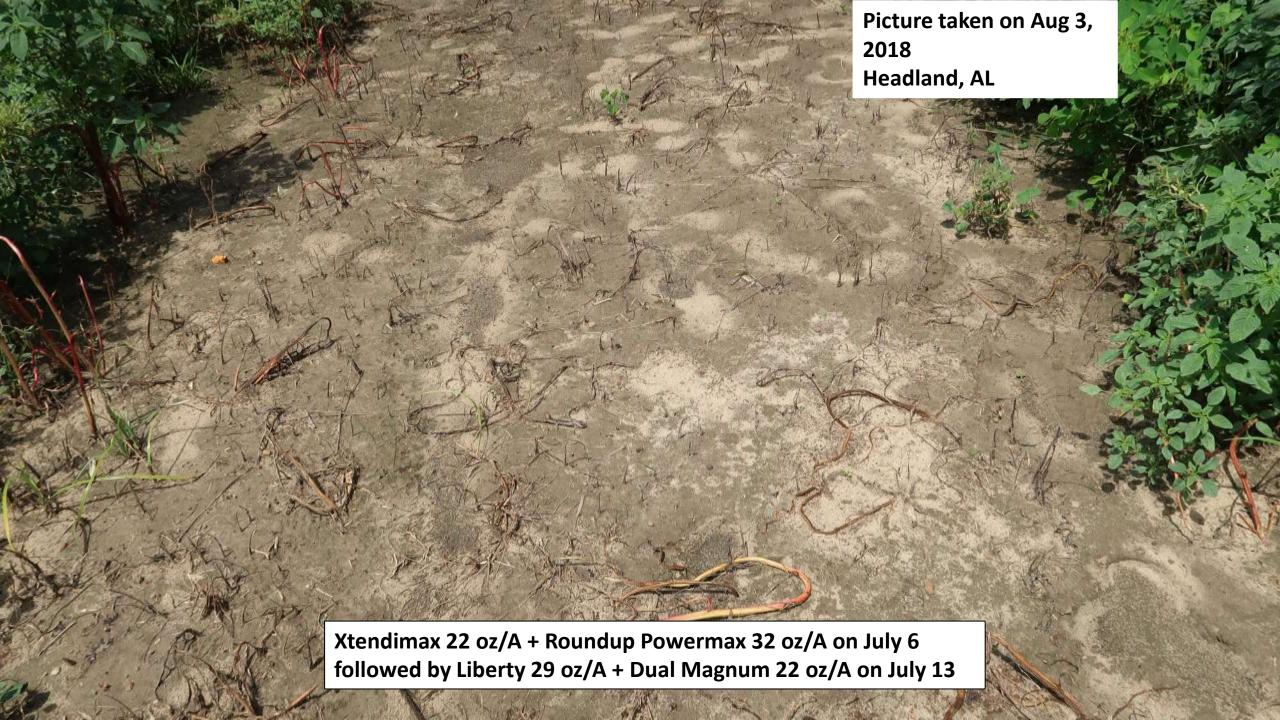




















NTC Interline 32 oz/A Liberty ultra 24 oz/A

June 13th, 2023. Headland



NTC Interline 32 oz/A Liberty ultra 24 oz/A

June 23th, 2023. Headland



NTC



Cotoran 2 pt/A @ 50 DAT



Reflex 12 oz/A @ 50 DAT



Xtendimax 44 oz/A @ 50 DAT







Alite 27 3 oz + dicamba 12.8 oz/A at 28 DAP



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

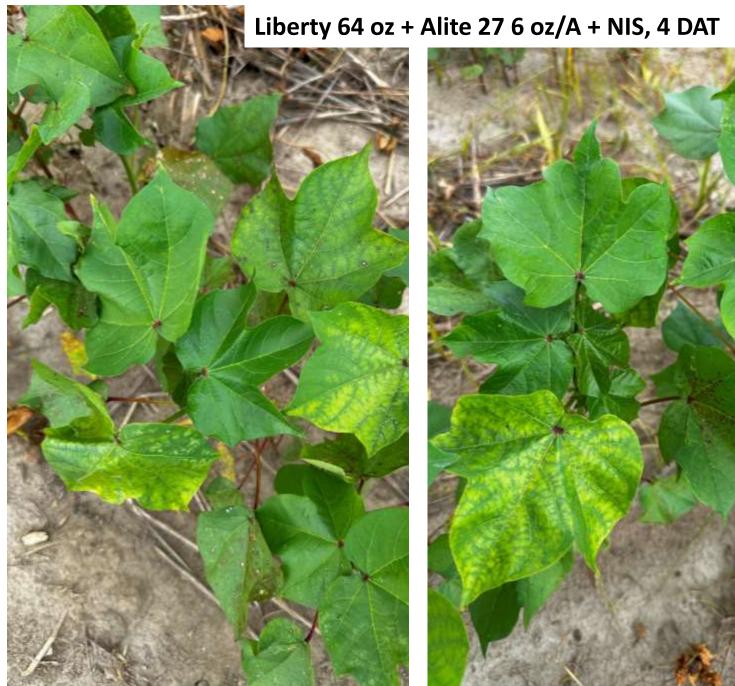
Reflex 12 oz + Cotoran 2 pt/A PRE on 7/29



























Reflex 12 oz + Warrant 48 oz/A PRE with AIXR @ 15 GPA, applied June 16, 2024.

Picture date: Sep 25, 2024



Alite 27 3 oz + Prowl H2O 32 oz/A PRE with AIXR @ 15 GPA, applied June 16, 2024.

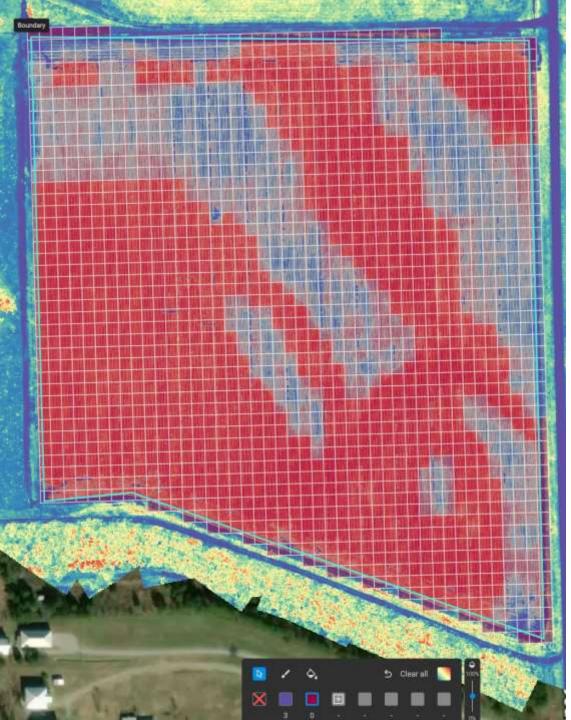
Picture date: Sep 25, 2024





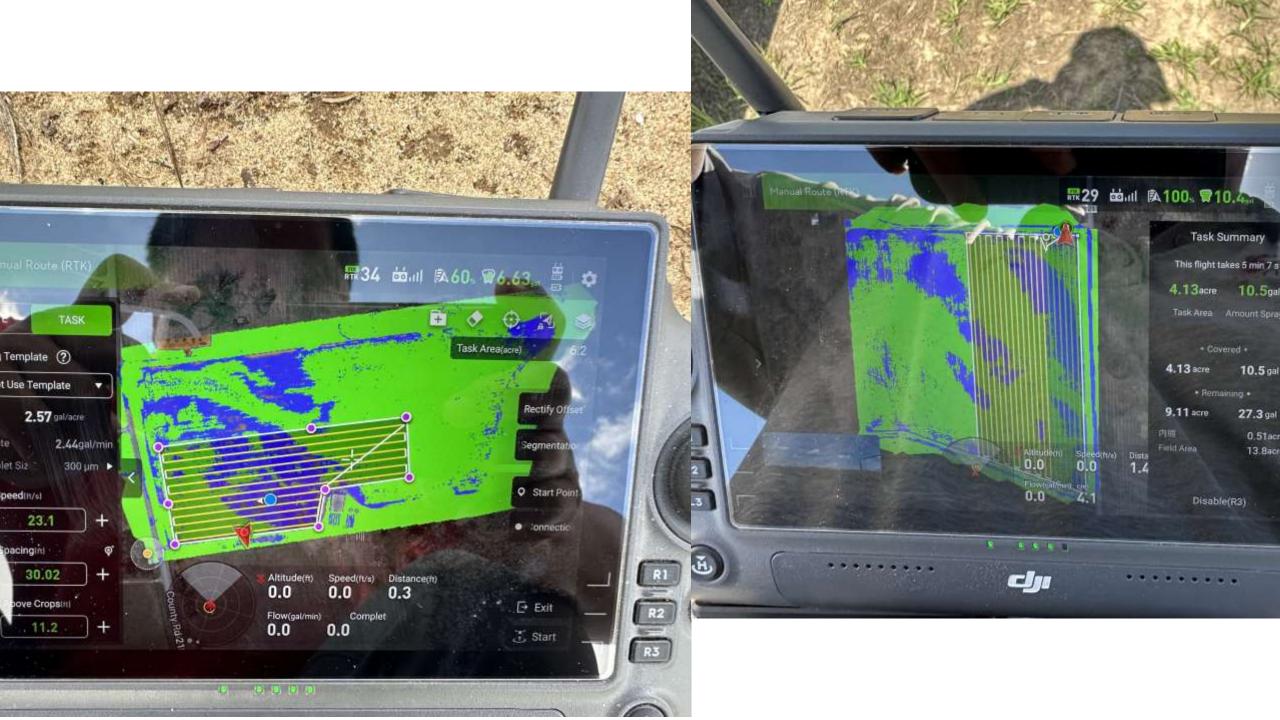


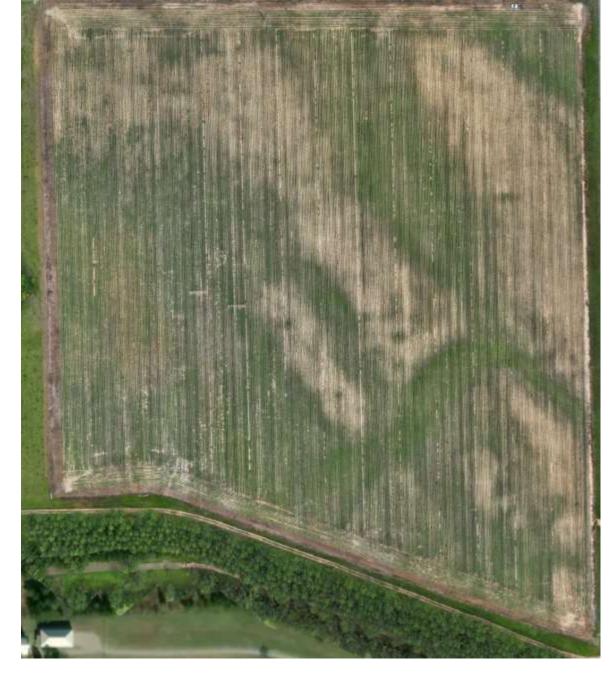
Cotton variation caused by soil type change

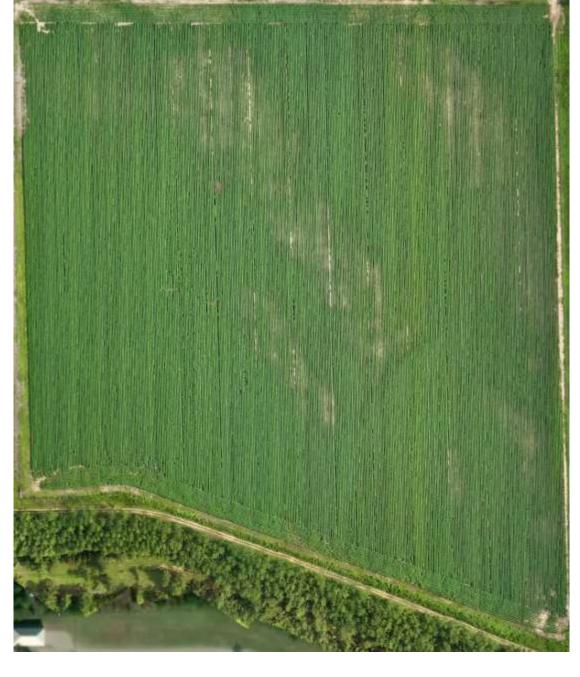


Variable rate application prescription









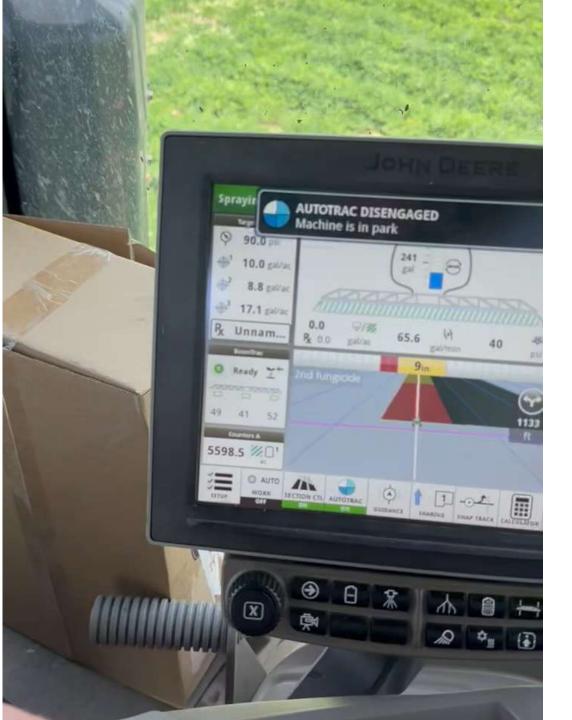
July 3rd 2024

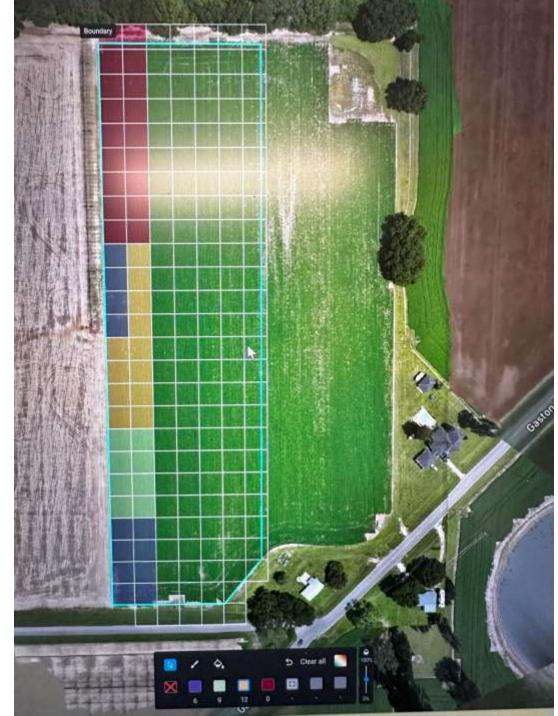


July 3rd 2024

July 30th 2024







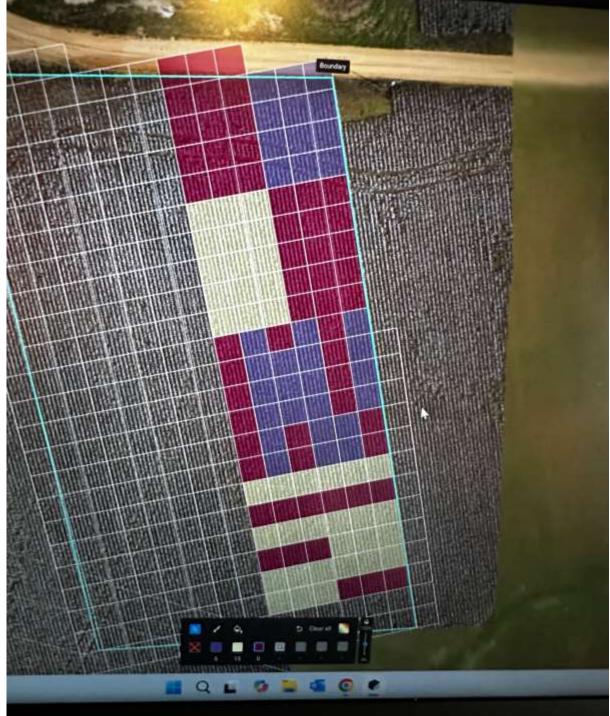




12 GPA 9 GPA 6 GPA



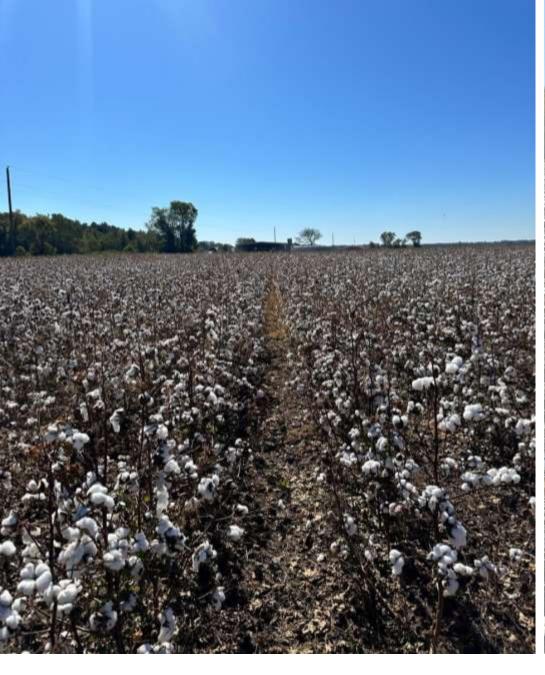












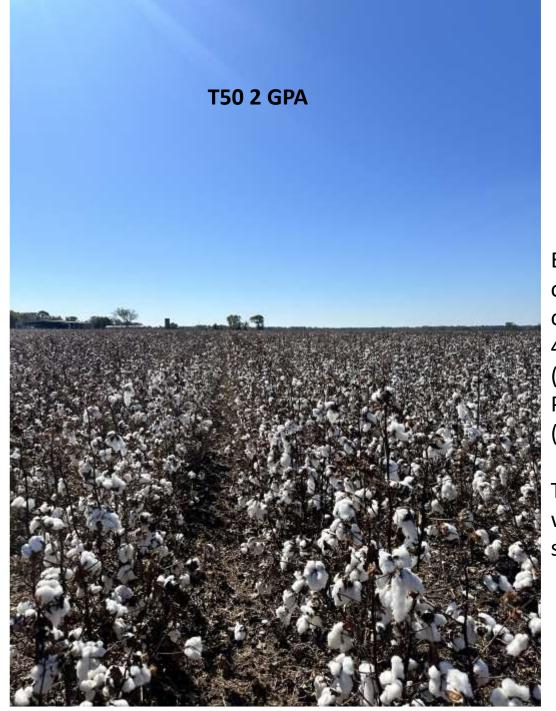


2024 field trials Prattville AL

Airplane 3 GPA

Ground Sprayer 15 GPA





2024 field trials Prattville AL

Either 1) Aim 0.5 oz/A or 2) Folex 10 oz/A, with Dropp 4 oz/A (thidiazuron) + Prep 48/A oz (ethephon)

Two tank mixes were used at each site





2024 field trials Prattville AL

T50 2 GPA T50 3 GPA

3 way mix was spread right before peanut digging

Spreading date: Oct 10, 2023. Headland AL

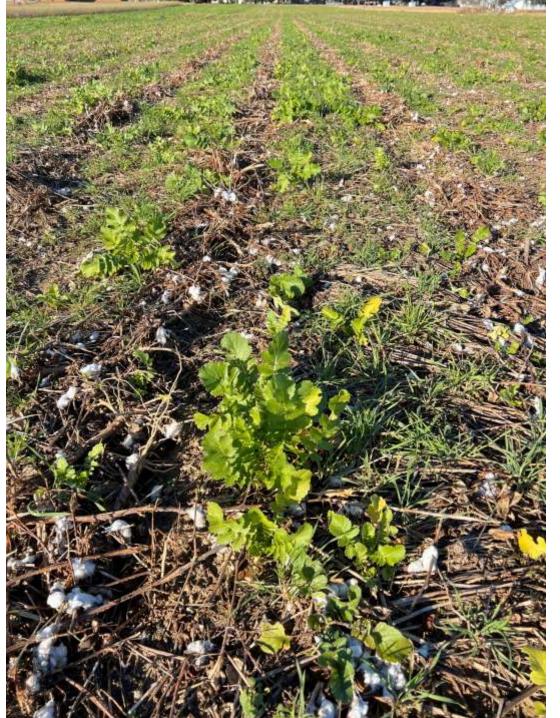


3 way mix was spread 4 days after cotton defoliation

Spreading date: Oct 10, 2023. Headland AL









TREATMENT:

3-way mix (cereal rye, radish, crimson clover)

Cotton after defoliation

High efficiency spreading

Location: Headland-AL

Crop: Cotton

Spreading date: 10/10/2023 **Pictures date:** 01/15/2024

Seeding rate: 31 Lbs./A (15 CR, 10 R, 6 CC)

Drone: DJI Agras T20P



Speed: 32.8 ft/s

Height: 12 ft

Swath: 20 ft

Spinner speed: 1300 RPM





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After application. Monroe county, AL AM11001, 2 GPA, 22 ft swath, 10 ft height, 15.5 MPH







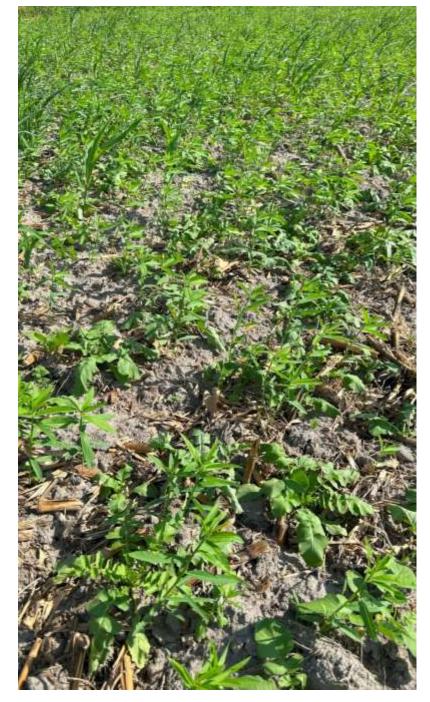


Weed control or Desiccation???





Sep 6, 2023 Headland AL



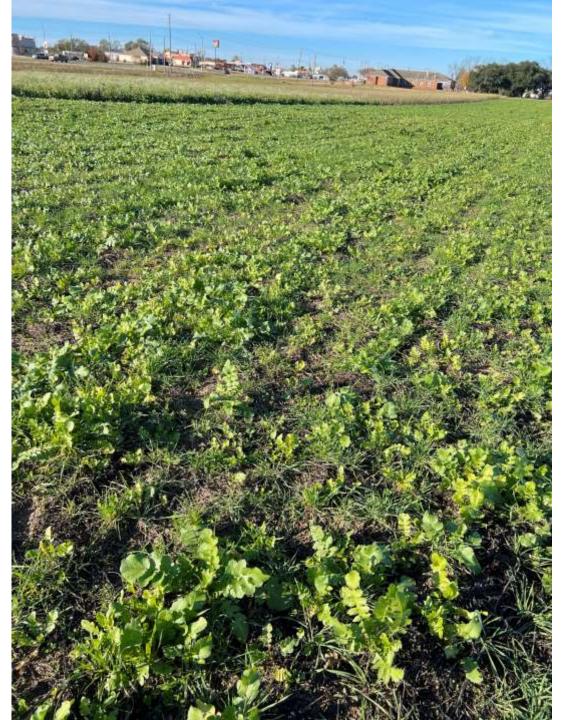








Dec 12, 2023









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































Scan this QR code for registration page

- The 3rd spray drone end user conference
- Mar 23-26, 2025. Mobile Convention Center, Alabama
- In-person event with remote option
- Presentations and latest updates from FAA, EPA, AAPCO, Crop Life of America, global spray drone task force, globally renowned researchers, equipment manufactures, experienced operators, etc.
- Up to 24 breakout sessions to address nearly all aspects of drone spraying and spreading business

The 3rd Spray Drone End User Conference March 23-26th, 2025. Mobile Convention Center

Special thanks to Gentry Smith, Scott Tennant, Samford farm and Williams Farm, Driskell Farm, Autauga Farming Company, ALFA and Cotton Inc for funding

Questions? steveli@auburn.edu

