

The background of the slide features a close-up photograph of corn cobs and their husks. One cob in the foreground is yellow and partially husked, while a larger, reddish-purple cob is visible behind it. The leaves are a mix of green and yellow, suggesting a late harvest or drought conditions. The entire scene is set against a solid blue background.

# Weed Control in Field Corn 2020

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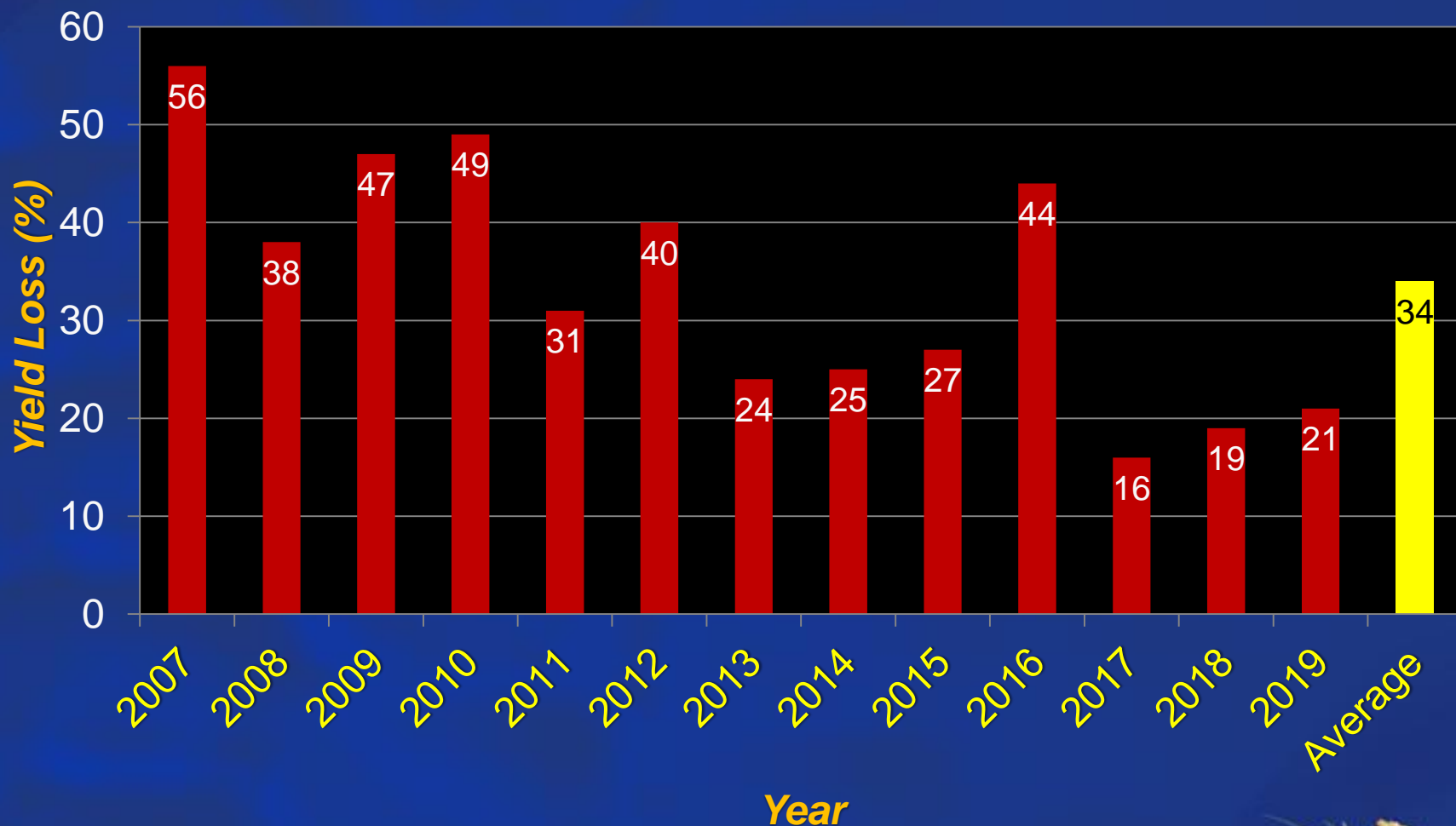


UNIVERSITY OF  
**GEORGIA**

College of Agricultural &  
Environmental Sciences

# Field Corn Yield Loss (%) Caused by Uncontrolled Weeds in UGA Weed Science Research Trials (2007-2019).

*Treated vs. Non-treated*



$200 \text{ Bu/A} \times 0.34 \times \$4.10 = \$279/\text{A}$

# Field Corn Weed Control

## *Questions for you?*

- ❑ What technologies are you planting?
  - ❑ *RR, LL, Conventional, Enlist (2,4-D)?*
- ❑ Have you used Counter INFR?
- ❑ Is atrazine still working for you?
- ❑ What will be planted after the field corn?





# Pigweed Should Not Be a Problem!!!!

- ❑ moisture activated residual?
- ❑ atrazine resistance
- ❑ timing/coverage
  - ❑ *weeds too big*
  - ❑ *corn too big*
- ❑ environmental
  - ❑ *hot and dry #1 enemy POST's*



# A general plan of attack?

- ❑ MUST START CLEAN!
- ❑ Use 1 qt/A of Atrazine 4L PRE (or *Dual II Magnum*, or *Warrant*, or *Outlook*)
- ❑ Follow up with a timely POST program that includes an additional 1.5 qt/A of Atrazine 4L
- ❑ Lots of options depending upon how you answered previous questions?





# Starting Clean



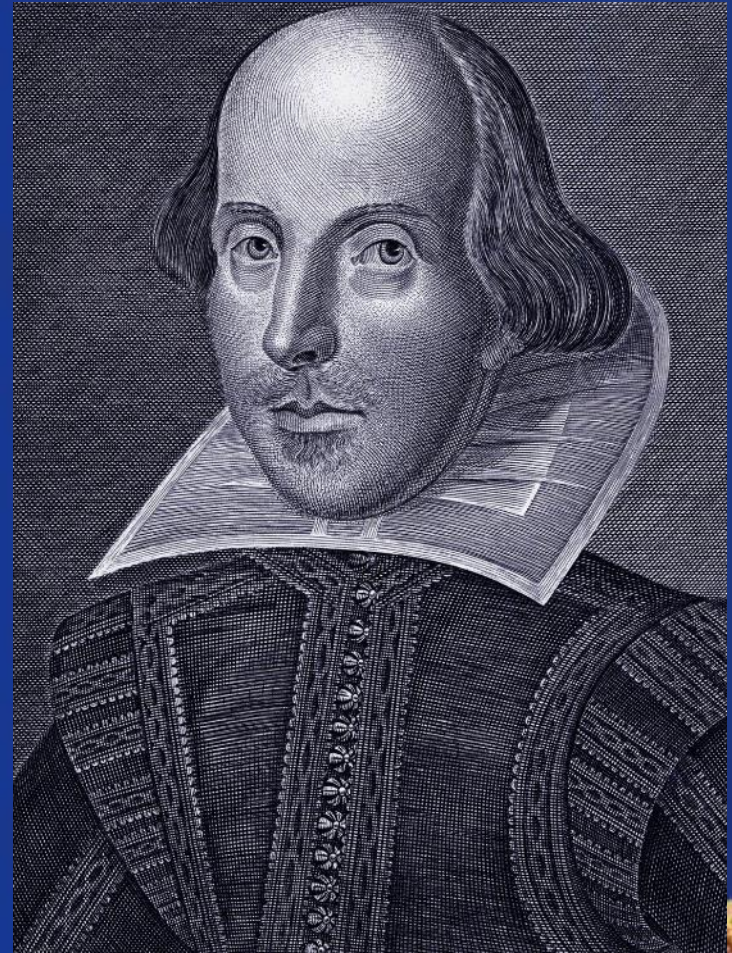
- ❑ If you are getting ready to plant and get to the field and have pigweed > 6" tall

.....

- ❑ **Park the sprayer**
- ❑ ***Go get your mower, disk, and/or bottom plow***



# To PRE or Not to PRE?





# Anthem Maxx, Dual, Outlook, Warrant, Zidua????



**Zidua<sup>®</sup> SC**  
Herbicide

Group 15 Herbicide



# Field Corn Weed Control – 2019

*Roundup + Atrazine + Prowl H<sub>2</sub>O (~\$18/A)*



NTC



Roundup PowerMax @ 32 oz/A  
Atrazine @ 64 oz/A  
Prowl H<sub>2</sub>O @ 32 oz/A  
Applied 23 DAP (V5/8" tall)



# Field Corn Weed Control – 2019

*Roundup + Laudis + Atrazine (~\$18/A)*



NTC



Roundup PowerMax @ 32 oz/A  
Laudis @ 3 oz/A  
Atrazine @ 64 oz/A  
Applied 23 DAP (V5/8" tall)



# Field Corn Weed Control – 2019

*Halex GT + Atrazine + NIS (~\$24/A)*



NTC



Halex GT @ 58 oz/A

Atrazine @ 64 oz/A

NIS @ 0.25% v/v

Applied 23 DAP (V5/8" tall)

CN-07-19  
May 13  
19 DAT






# Halex GT + Atrazine + NIS + Fungicides (Trivapro, Headline AMP, Stratego YLD)



CN-07-19  
DKC6208  
May 3  
9 DAT





# Field Corn Weed Control – 2019

*Liberty + Atrazine (~\$18/A)*



NTC



Liberty @ 32 oz/A  
Atrazine @ 64 oz/A  
Applied 22 DAP (V4/8" tall)



# Field Corn Weed Control – 2019

*Roundup + Impact Z (~\$14/A)*



NTC



Roundup PowerMax @ 32 oz/A  
Impact Z @ 8 oz/A  
Applied 22 DAP (V4/8" tall)



# Field Corn Weed Control – 2019

*Roundup + Engenia + Prowl H<sub>2</sub>O (~\$18/A)*



NTC



Roundup W-Max @ 32 oz/A  
Engenia @ 6.4 oz/A  
Prowl H<sub>2</sub>O @ 32 oz/A  
Applied 21 DAP (V4/7" tall)

CN-08-19  
May 10  
18 DAT



Roundup W-Max @ 32 oz/A + Engenia @ 6.4 oz/A  
+ Prowl H<sub>2</sub>O @ 32 oz/A  
(Applied 9 DAP, V1/2" tall field corn)





Roundup W-Max @ 32 oz/A + Engenia @ 6.4 oz/A  
+ Prowl H<sub>2</sub>O @ 32 oz/A  
(Applied 21 DAP, V4/7" tall field corn)





# Field Corn Weed Control – 2019

*Roundup + Status + Prowl H<sub>2</sub>O (~\$31/A)*



NTC



Roundup W-Max @ 32 oz/A  
Status @ 5.0 oz/A  
Prowl H<sub>2</sub>O @ 32 oz/A  
Applied 21 DAP (V4/7" tall)

CN-08-19  
May 10  
18 DAT



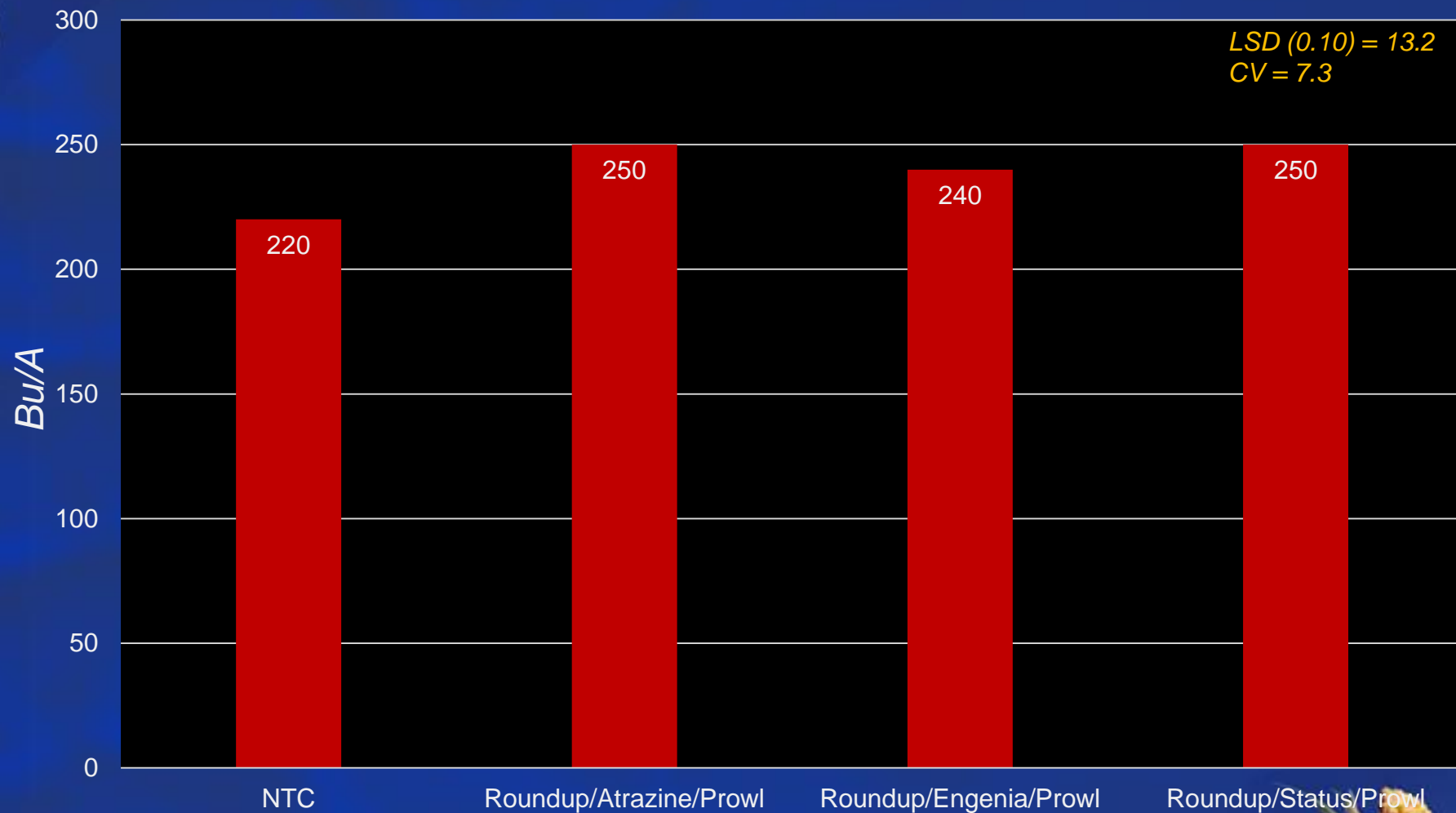
# Field Corn Injury – Status (dicamba)



- ❑ CN-04-16
- ❑ Agrigold 6659
- ❑ 7 DAT (April 25, 2016)
- ❑ Roundup P-Max @ 32 oz/A + Status @ 5 oz/A
  - ❑ Applied 27 DAP
  - ❑ V4-V5; 7" tall
- ❑ No yield effect



# Field Corn Yield (DKC-6208) As Influenced By Herbicide Treatment





# Field Corn Weed Control – 2019

*Atrazine (PRE) fb Roundup + Acuron (POST) (\$31/A)*



NTC



Atrazine @ 32 oz/A (PRE)  
fb

Roundup W-Max @ 32 oz/A  
Acuron @ 48 oz/A  
Applied 28 DAP (V6/12" tall)

CN-09-19  
May 10  
10 days after POST



# Public Enemy #1 in Field Corn





# Lay-By Rig for Morningglory





# Roundup Powermax II @ 32 oz/A + Evik 80DF @ 2 lbs/A – 36 DAT (June 15, 2018)



16 GPA  
30 PSI  
3.7 MPH  
V7-V8  
24" tall

FloodJet  
TK-VS2



# Terrell Co. Lay-By - 2019

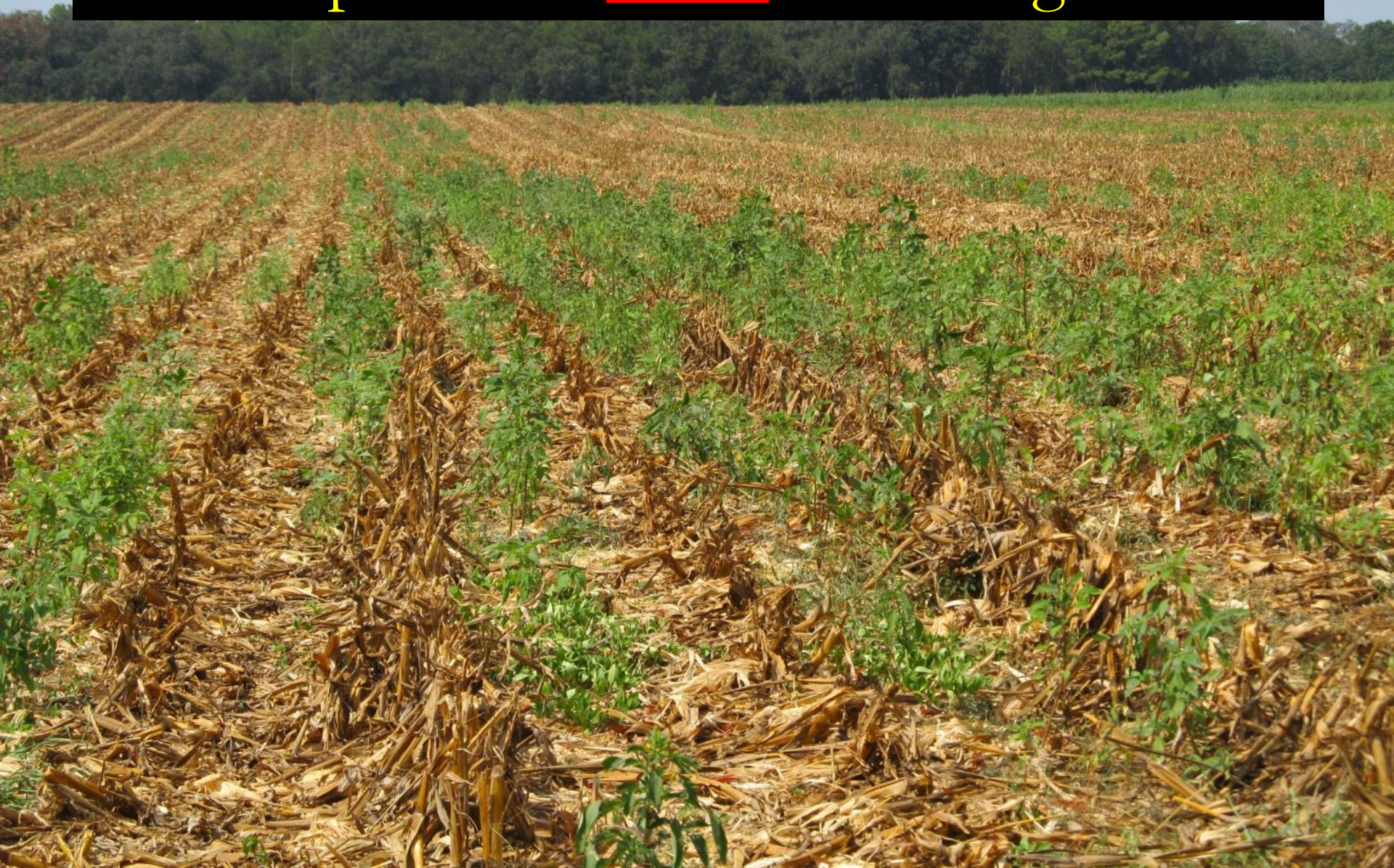
## Roundup + Tricor



**\*\*No difference in weed counts (#/250') on July 15 (67 DAT)**



# Post-Harvest Palmer Amaranth Populations Must be Managed!





# Palmer Amaranth Burndown - 2019

*(AMAPA 1-6" tall)*



NTC



Gramoxone 3SL @ 32 oz/A  
Tricor 4L @ 8 oz/A  
Induce @ 0.25% v/v

NC-01-19  
May 30  
10 DAT



**Tropical Spiderwort/Benghal Dayflower (TSW/BD) After Corn Harvest  
(need tillage and/or 2 apps of Gramoxone or 2,4-D or Aim)**





# Post-Harvest Control of TSW/BD with 2 Applications (14 d apart) of Gramoxone (paraquat)





# Questions/Comments?



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