



# Challenges to Managing Weeds in Peanut for 2024

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# Challenges for Peanut Weed Control

- Preventing self-inflicted problems
  - *i.e. human error*
- Planting into fields with history of perennial weeds
- Timing
- Application
  - *calibration, mixing, GPA, nozzle type, boom height, tractor speed*
- Weather
- The Future



# 2023 Survey of Southern Row Crop Extension Weed Specialists

## Common Problems (1 = most common, 5 = least common)

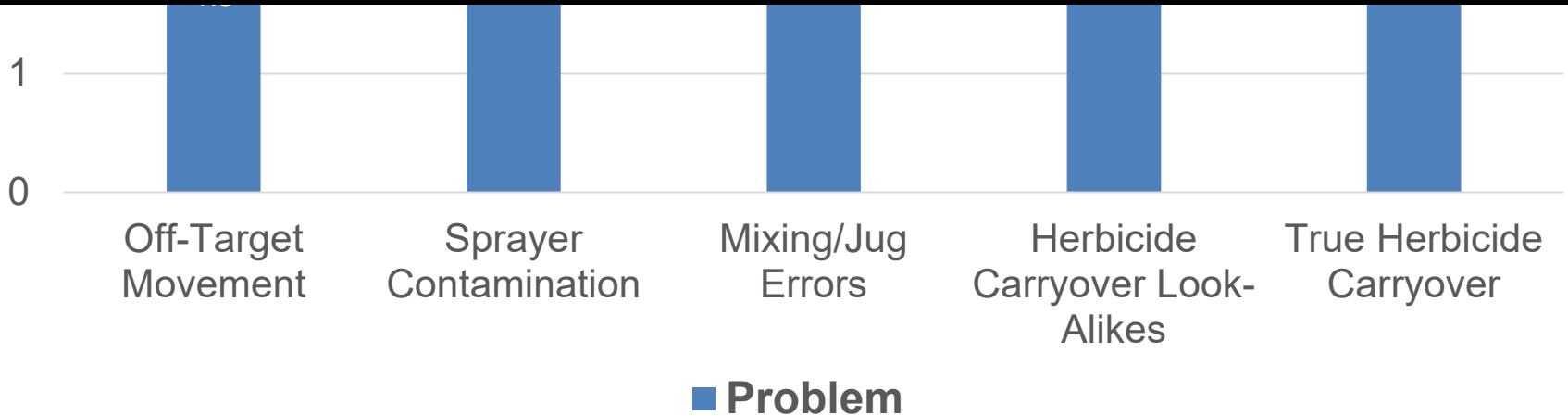
5

Prostko # 1 = Mixing/Jug Errors

Prostko#2 = Herbicide Carry-Over Look Alikes

Culpepper#1 = Herbicide Carry-Over Look Alikes

Culpepper#2 = Sprayer Contamination



# Jug Management?



# Generally, many of the most common problems are self-inflicted and could be minimized!

## ➤ Off-Target Movement

- *nozzles, pressure, MPH, GPA, boom height, DRA's, formulation, **situational awareness***

## ➤ Sprayer Contamination

- *proper cleaning (label), hose type (rubber or polyethylene), separate sprayers*

## ➤ Mixing/Jug Errors

- *Non-labeled jugs, head in tank, color coded jugs/labels?, no assumptions*

## ➤ Carryover Look-Alikes

- *soil test, nematode test, grid-sampling is not absolute*

## ➤ True Herbicide Carryover

- *follow labeled crop rotation restrictions, local experts/experience, sprayer calibration, overlap*



# Perennial Weeds in Peanut



alligatorweed  
R. Ethredge, Seminole Co.  
07/24/23



goldenrod?  
M. Frye, Wayne Co.  
08/11/23

# Revenge Spraying Rarely Works! Timing is everything!





Gramoxone 3SL @ 16 oz/A + Ultra Blazer 2SL @ 24 oz/A +  
2,4-DB 1.75SL @ 16 oz/A + Anthem Flex 4SE @ 3 oz/A +  
PowerLock @ 8 oz/A

*Applied ~60 DAP/Mid-Afternoon application/12 GPA*







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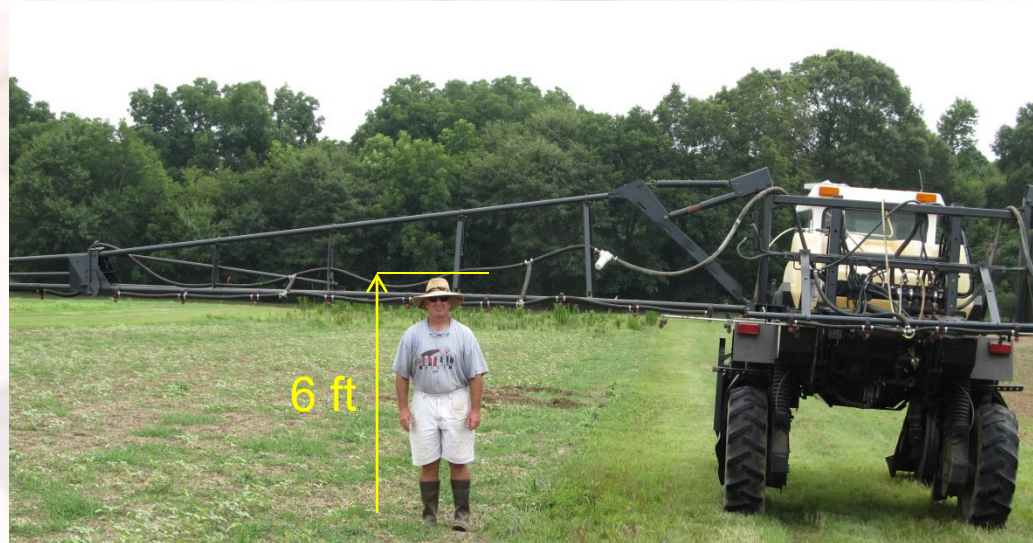


# ***The New Norm for Application***



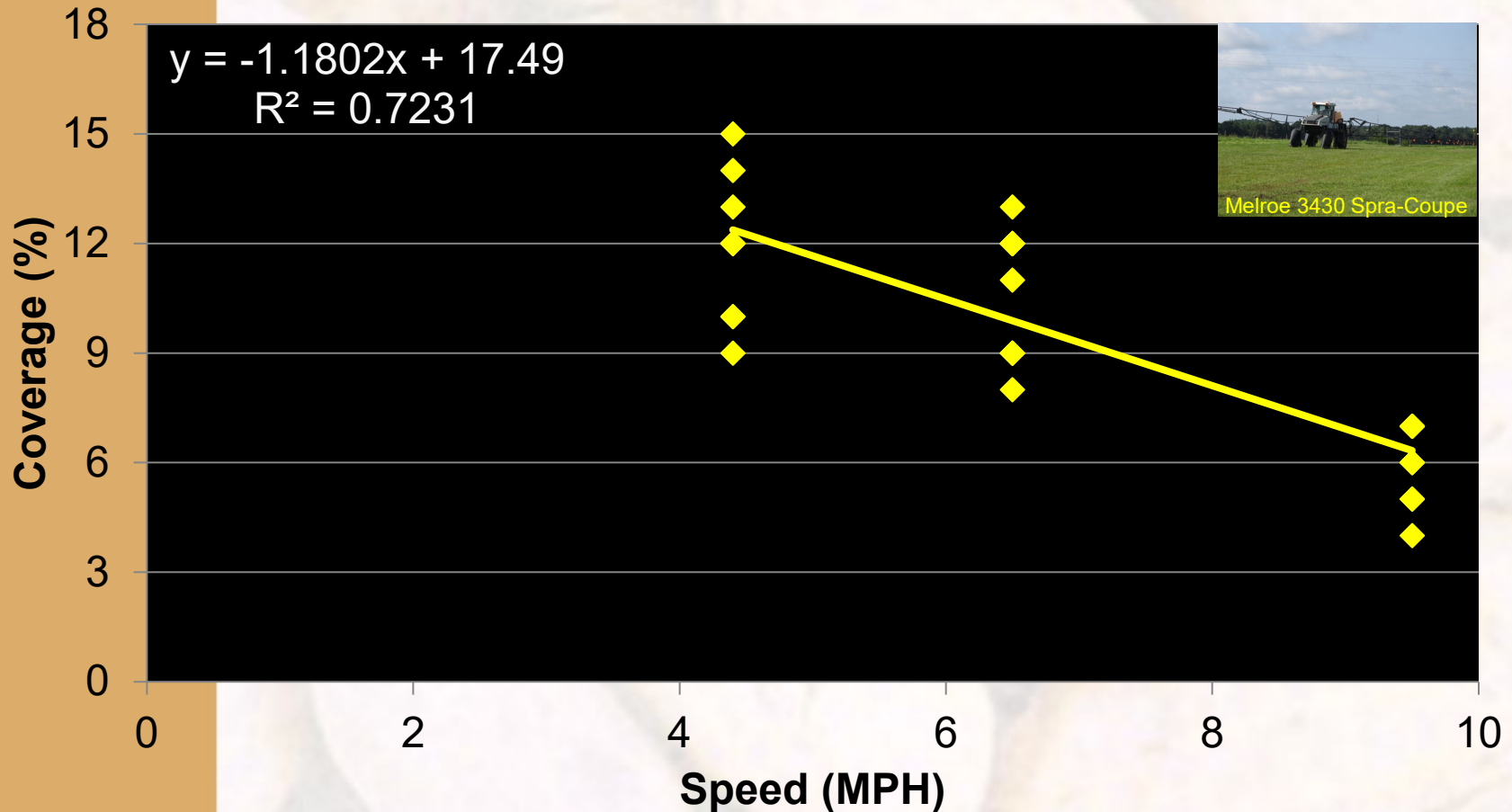


Is this a bad combination????





# Tractor Speed Effects on Spray Coverage (%) – 30” Boom Height – 15 GPA

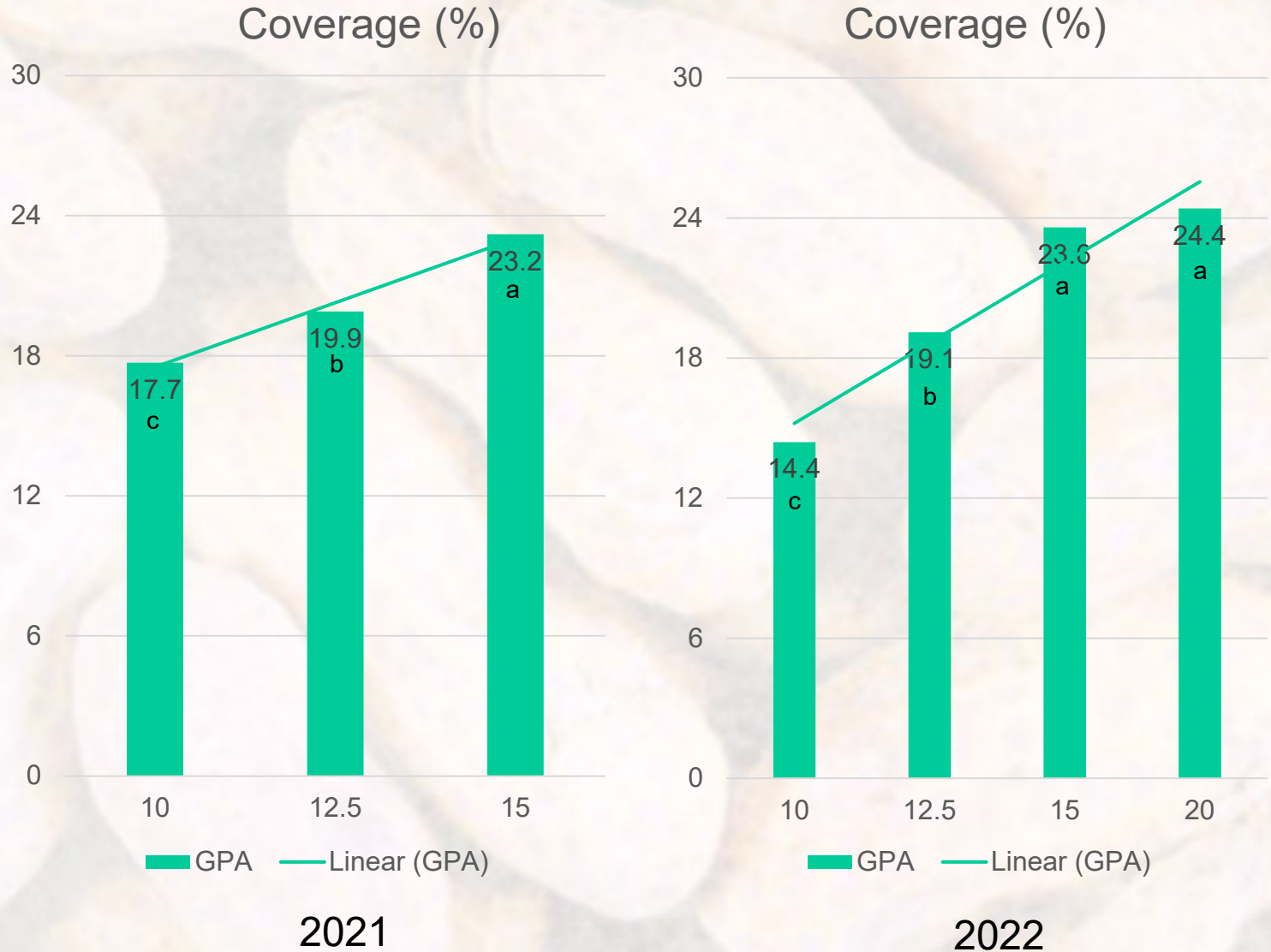


N = 30

# Water Volume Effects on Spray Coverage (2021-2022)



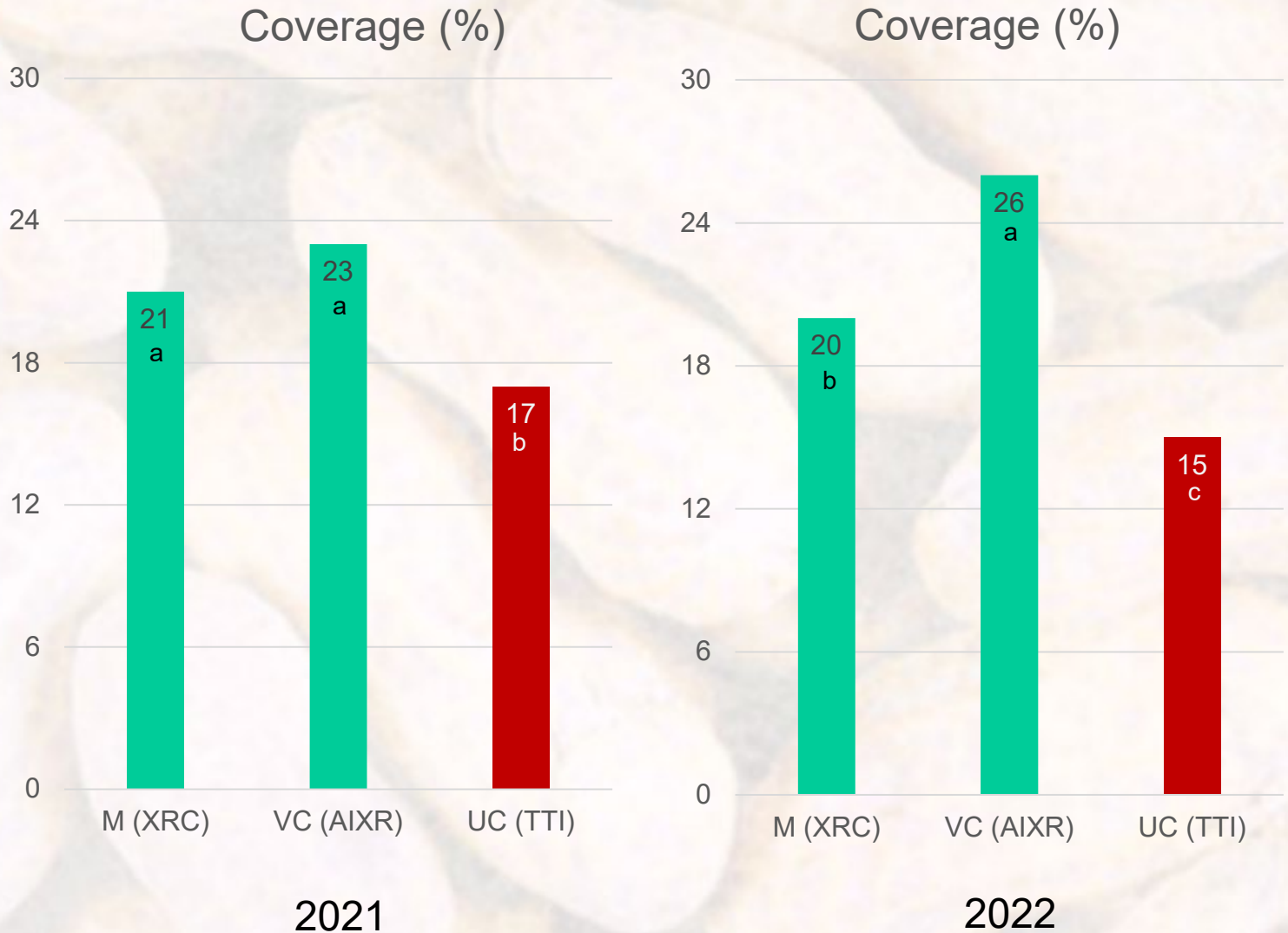
30" boom height  
10 MPH  
18" nozzle spacing



# Droplet Size Effects on Spray Coverage (2021-2022)



30" boom height  
10 MPH  
18" nozzle spacing





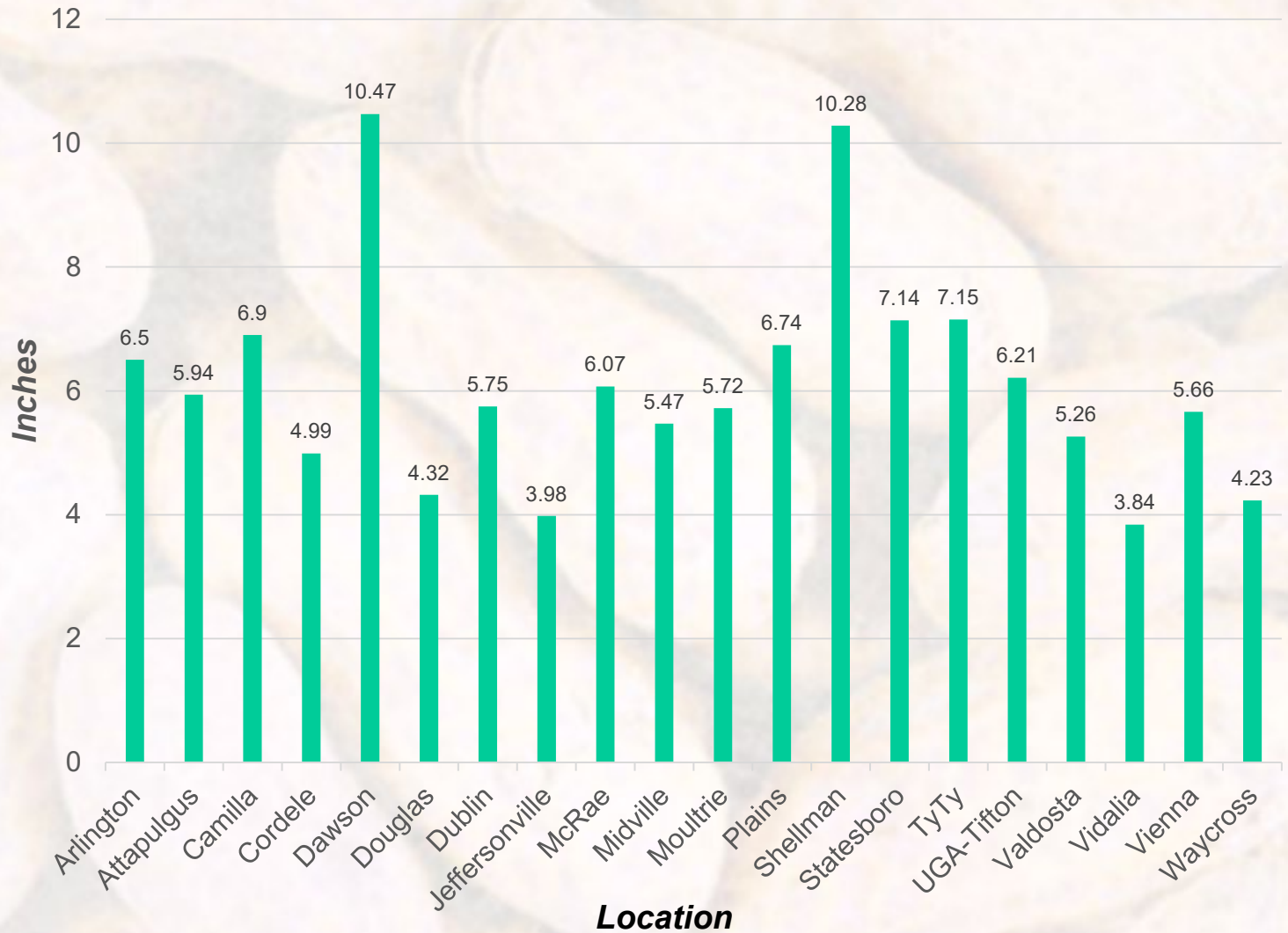
# Weather and Herbicides

- Moisture is needed to move residual herbicides into weed germination zone
- Moisture is needed to help keep weeds actively growing
- Moisture can delay applications
- Moisture can wash off herbicides
  - *rain-free period*





# Georgia Rainfall June 12-June 22, 2023



Source: UGA Weather Network





# I sprayed herbicide X and it did not work, what happened?

- Rate
- Timing
- Environment
  - *Hot/dry*
  - *Rain-free period*
- Calibration/Mixing
- Coverage
  - *Droplet size*
    - *Nozzle type, pressure*
  - *Boom height*
  - *Tractor speed*
- Resistance



# Annual Grass Control in Peanut

*SelectMax 0.97EC @ 24 oz/A + Agridex @ 1% v/v*  
*15 GPA, 3.5 MPH, AIXR11002 nozzles*



07/31/23  
0 DAT



08/07/23  
7 DAT



08/11/23  
11 DAT

# The Future

- Preplant label for Liberty?
  - *IR4 Program*
- Rexovor?????
  - *Trifludimoxazin*
  - *BASF*
- Older products?
  - *Caparol, Reglone*
- Nothing else?





# Peanut Weed Control - 2023



## **“The Program”**

- 1) Weed-free at planting (tillage/cover crops/herbicides)
- 2) Twin Rows (if possible)
- 3) Multiple Over-Lapping Residuals (PRE/EPOST/POST)
- 4) Timely POST's (3" or less)
- 5) Prevent Seed-Rain from Escapes (hand-weeding, non-selective applicators/mowing)

PE-14-23  
July 24  
83 DAP

# All About The Pod - Podcast





# Questions/Comments



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