

A close-up photograph of a cotton plant with several white, fluffy bolls. A large, stylized green leaf graphic is overlaid on the right side of the image. The text 'SePRO Ag' is written in a bold, white, sans-serif font, with a green leaf icon integrated into the letter 'O'. Below it, the text 'Brake® Herbicide' is written in a smaller, white, sans-serif font.

**SePRO Ag**<sup>TM</sup>  
Brake<sup>®</sup> Herbicide

# Brake<sup>®</sup> Herbicide

Foundation Preemergence for an Excellent  
Weed Control Program



**SePRO Ag**<sup>™</sup>  
*Upgrade Your Crop*

# Brake<sup>®</sup> Herbicide

- Wide spectrum foundation grass and broadleaf preemergence weed control providing less weeds to be controlled by our post applications
- **Excellent Pigweed (Palmer amaranth) control, you can count on**
- **Long residual control** keeps working for you
- **Works great in wet conditions**, when you can't get in the field
- **Safest preemergence available** for your cotton
- A unique chemistry for resistant management on your farm
- Compatible with all herbicides you need to use in cotton
- Crop rotation flexibility for your farming operation
- Earn rebates in the PhytoGen<sup>®</sup> Residual Rewards Program

**Stop Pigweed. Protect Cotton.**

# Brake<sup>®</sup> Herbicide

Broad spectrum foundation grass and broadleaf preemergence weed control providing less weeds to be controlled by our postemergence applications

## Broadleaf Weeds

- **Pigweeds (including Palmer Amaranth)**
- Carpetweed
- Florida pusley
- Ground cherries
- Horseweed (marestail)
- Hairy fleabane
- Henbit
- Lambsquarters
- London rocket
- Nightshades
- Prickly sida (teaweed)
- Puncture vine
- Purple deadnettle
- Purslane
- Ragweeds
- Spurges
- Redstem filaree
- Russian thistle

## Grasses

- Annual bluegrass
- Barnyardgrass
- Crabgrass
- Goosegrass
- Italian ryegrass
- Johnsongrass (seedling)
- Junglerice
- Orcutt lovegrass
- Fall panicum
- Red sprangletop

## Partially Controlled

- Texas panicum
- Morningglories
- Cocklebur
- Sicklepod
- Hemp sesbania
- Florida beggarweed
- Tropic croton

# Brake<sup>®</sup> Herbicide

Excellent Pigweed (Palmer amaranth) control, you can count on

Palmer Amaranth Control Jackson, TN  
47 Days After Planting



Untreated



16 fl oz Brake + 24 fl oz Cotoran



32 fl oz Cotoran + 32 fl oz Caparol



16 fl oz Direx



32 fl oz Caparol

# Brake<sup>®</sup> Herbicide

Long residual control, keeps working for you

72 Days After Planting

PRE: Brake + Cotoran

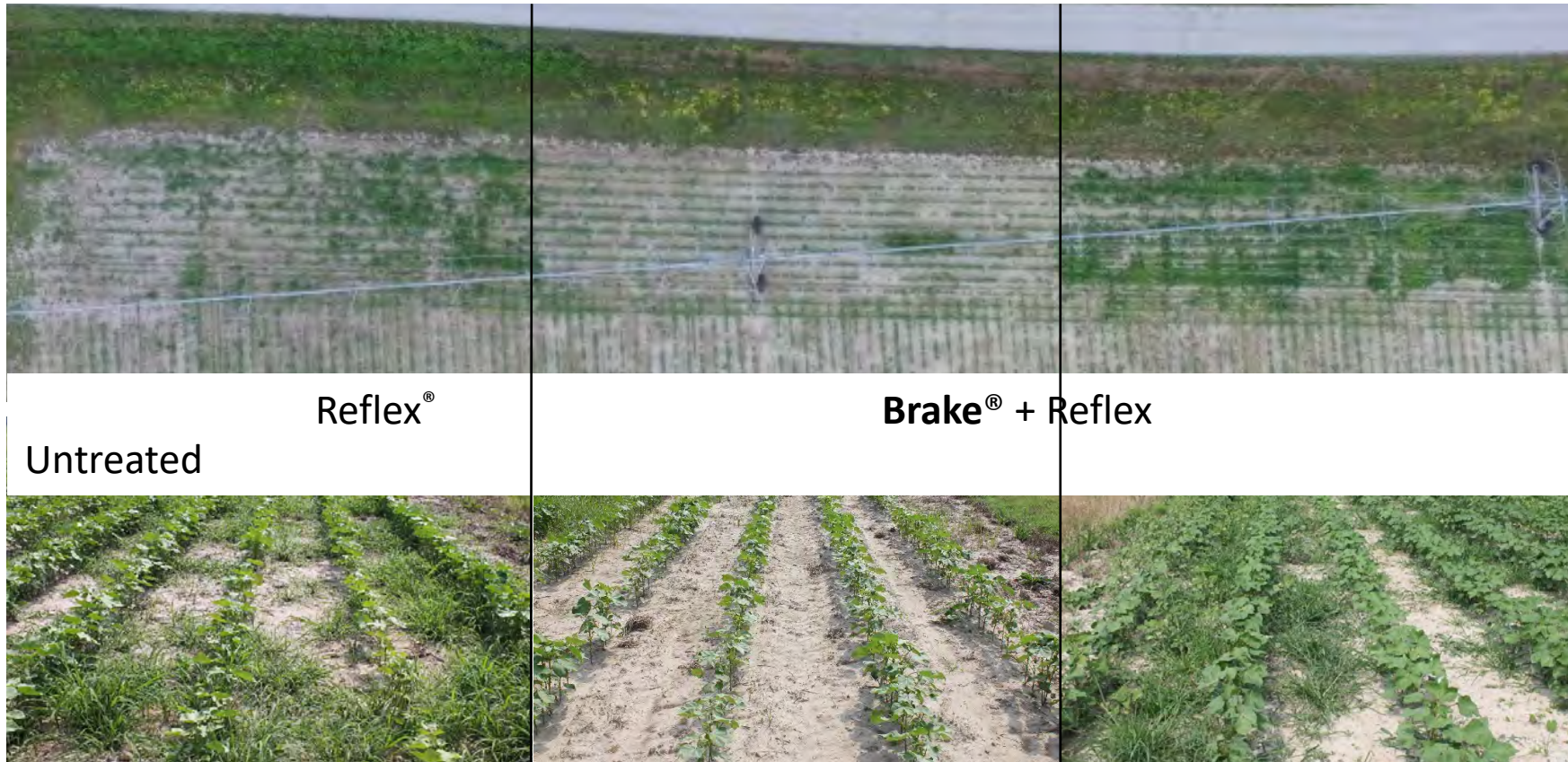
14-d POST: Liberty + Dual Magnum



# Brake<sup>®</sup> Herbicide

Works great in wet conditions, when you can't get in the field

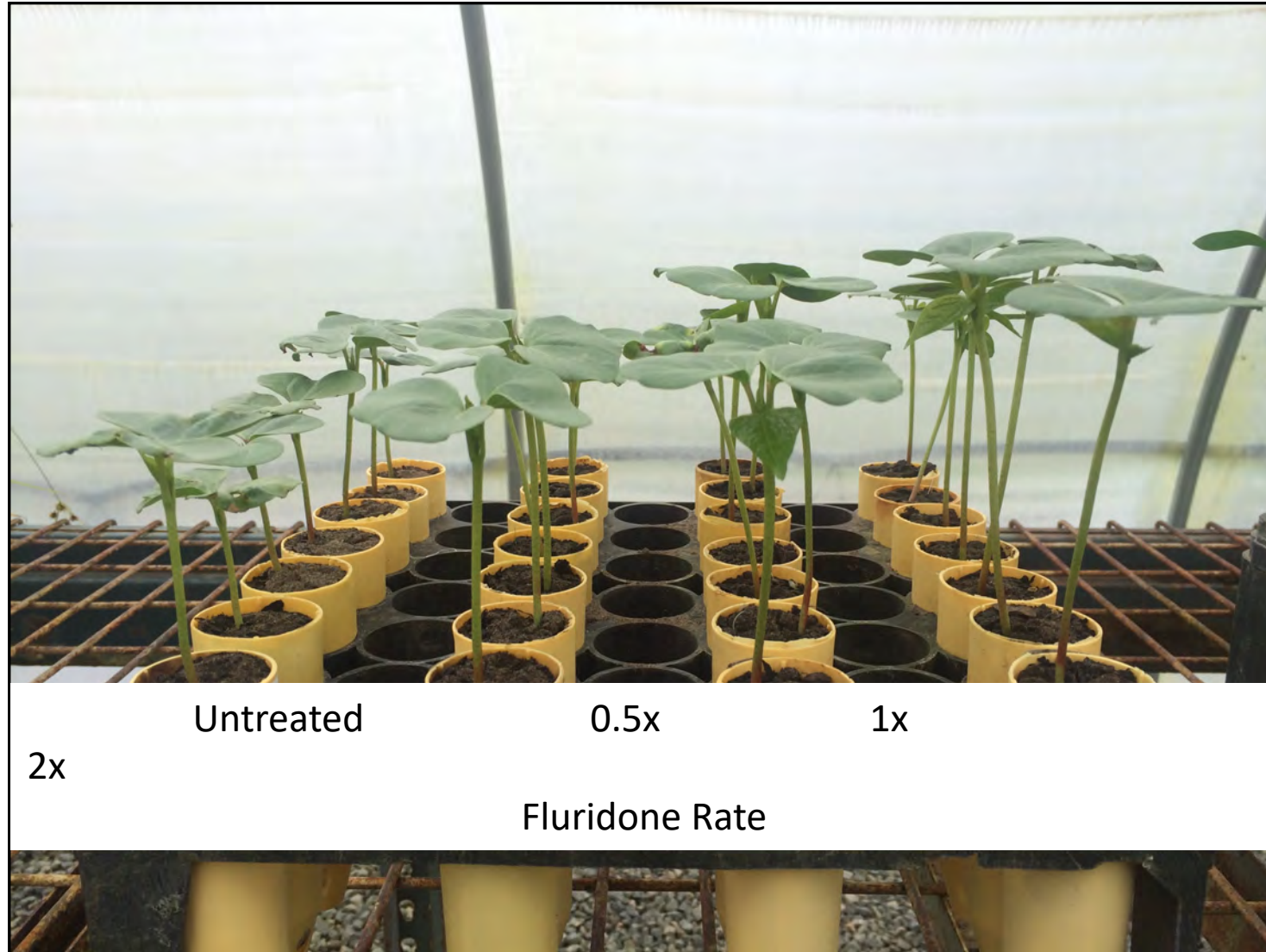
1.2" Total Rainfall/Irrigation in First Week after Application  
9" Total Rainfall/Irrigation, 38 days after application



# Brake<sup>®</sup> Herbicide

Safest preemergence available in cotton

13 days after application

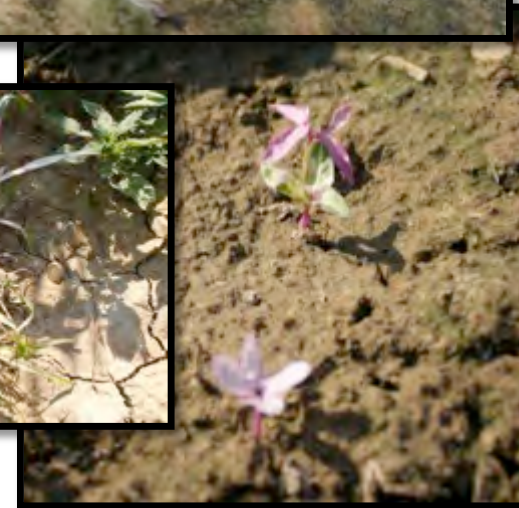




# Brake<sup>®</sup> Herbicide

A unique chemistry for resistant management on your farm

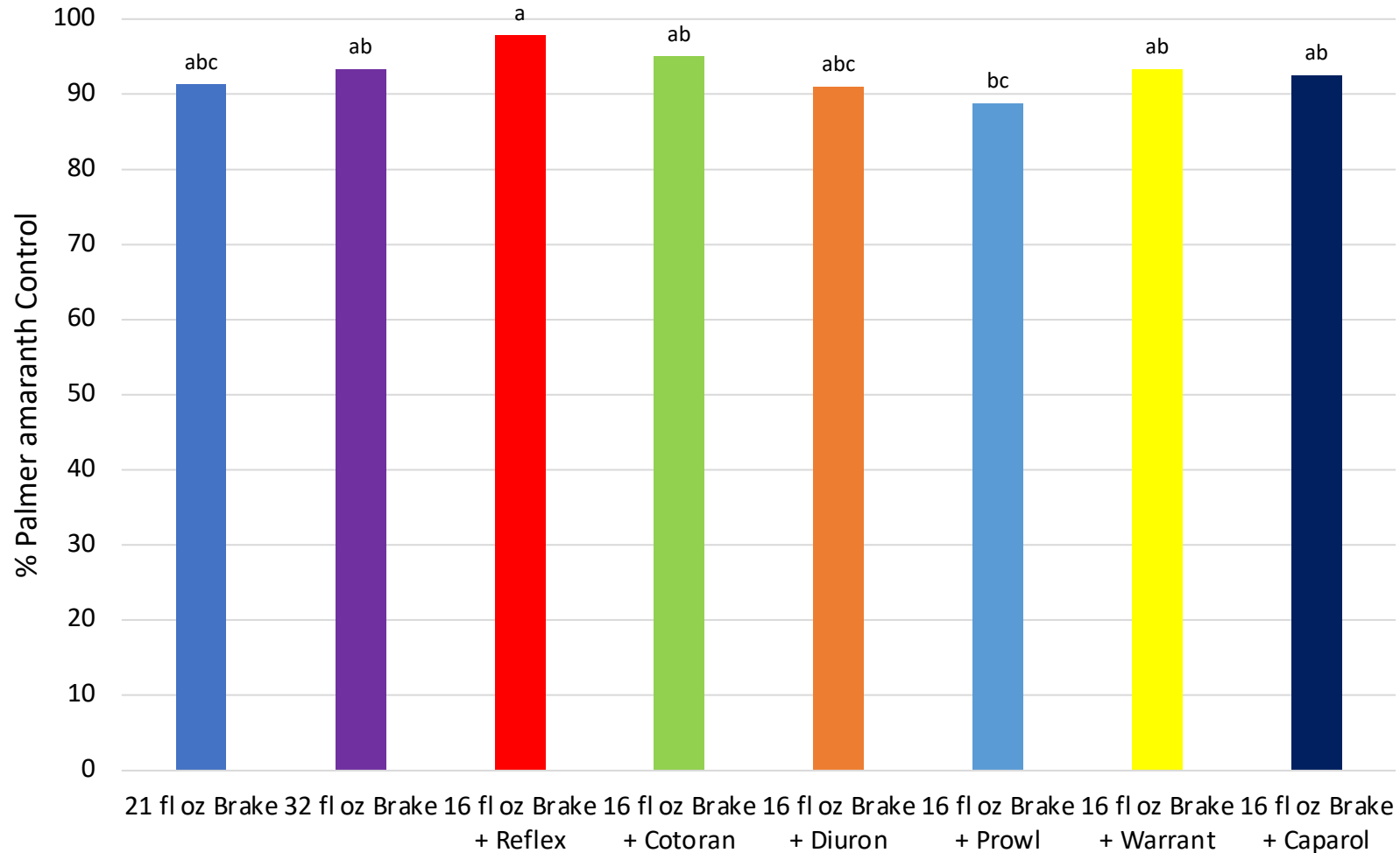
- Fluridone is a bleaching herbicide
  - HRAC Group 12
- Inhibits carotenoid synthesis
  - PDS-inhibitor
- Absorbed via roots and readily translocated
- Cotton tolerance through differential uptake/sequestration
  - Do not apply postemergence



# Brake<sup>®</sup> Herbicide

Compatible with all herbicides you need to use in cotton

Brake<sup>®</sup> Mix Partners  
26 Days After Application



# What About Moisture Needed?

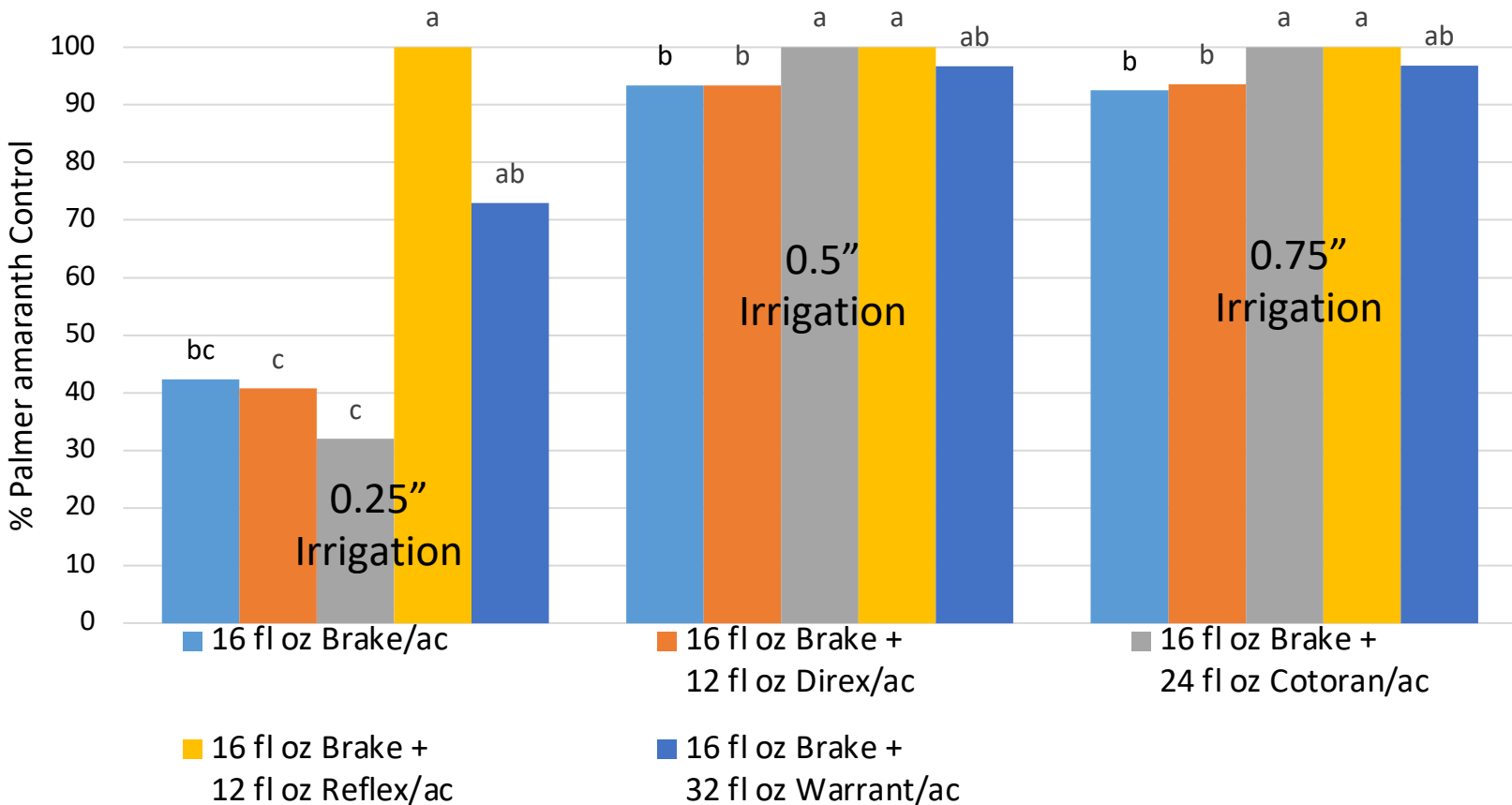
- Yes, Brake needs ½ inch of moisture to provide maximum effectiveness
  - Then it stays put and works great in successive rains or wet weather that may keep you out of the field
  - Sandy or lighter soils may dry out more quickly and reduce effectiveness between periods of adequate moisture for activation
- Solutions:
  - Plan to irrigate soon after planting
  - Pick a preemergence residual partner which is active with less water needed to activate
  - Time your Brake preemergence application pre-plant before a rain to ensure activation

Stop Pigweed. Protect Cotton.



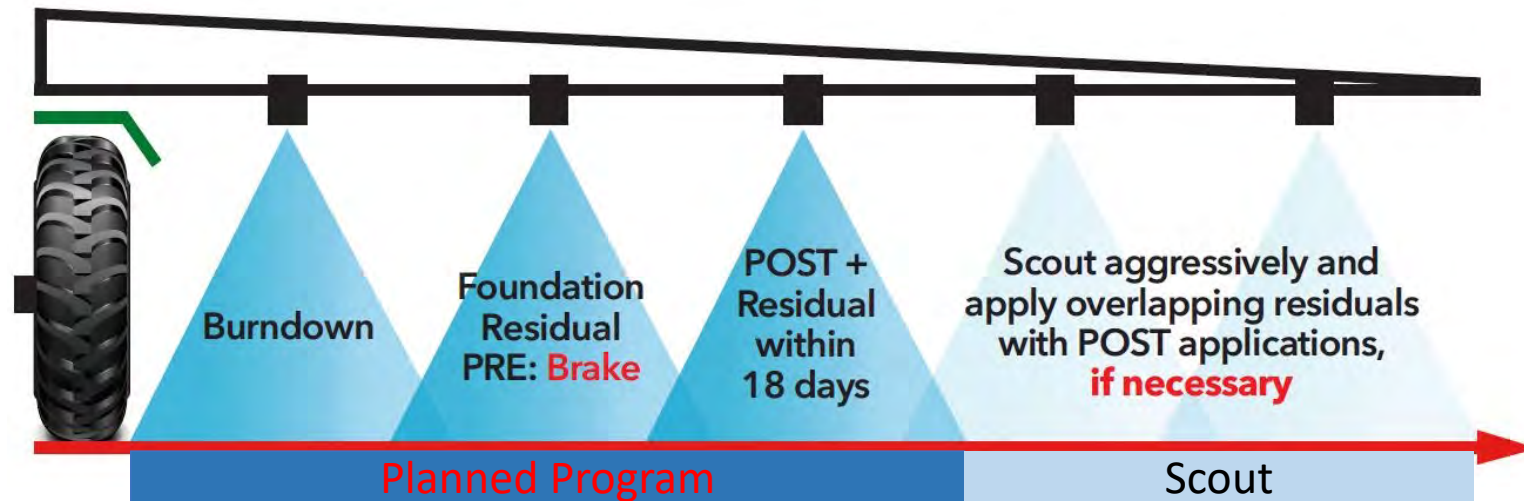
# Brake - Moisture Influence

13 Days After Application



# Brake<sup>®</sup> Herbicide Programs

- Brake<sup>®</sup> must be used in an herbicide program
- Scout aggressively and overlap residuals with POST applications



- Recommend Brake + other residual preemergence
- Followed by postemergence + a residual within 18 days
- If early postemergence is timely, mid or late postemergence may not be necessary



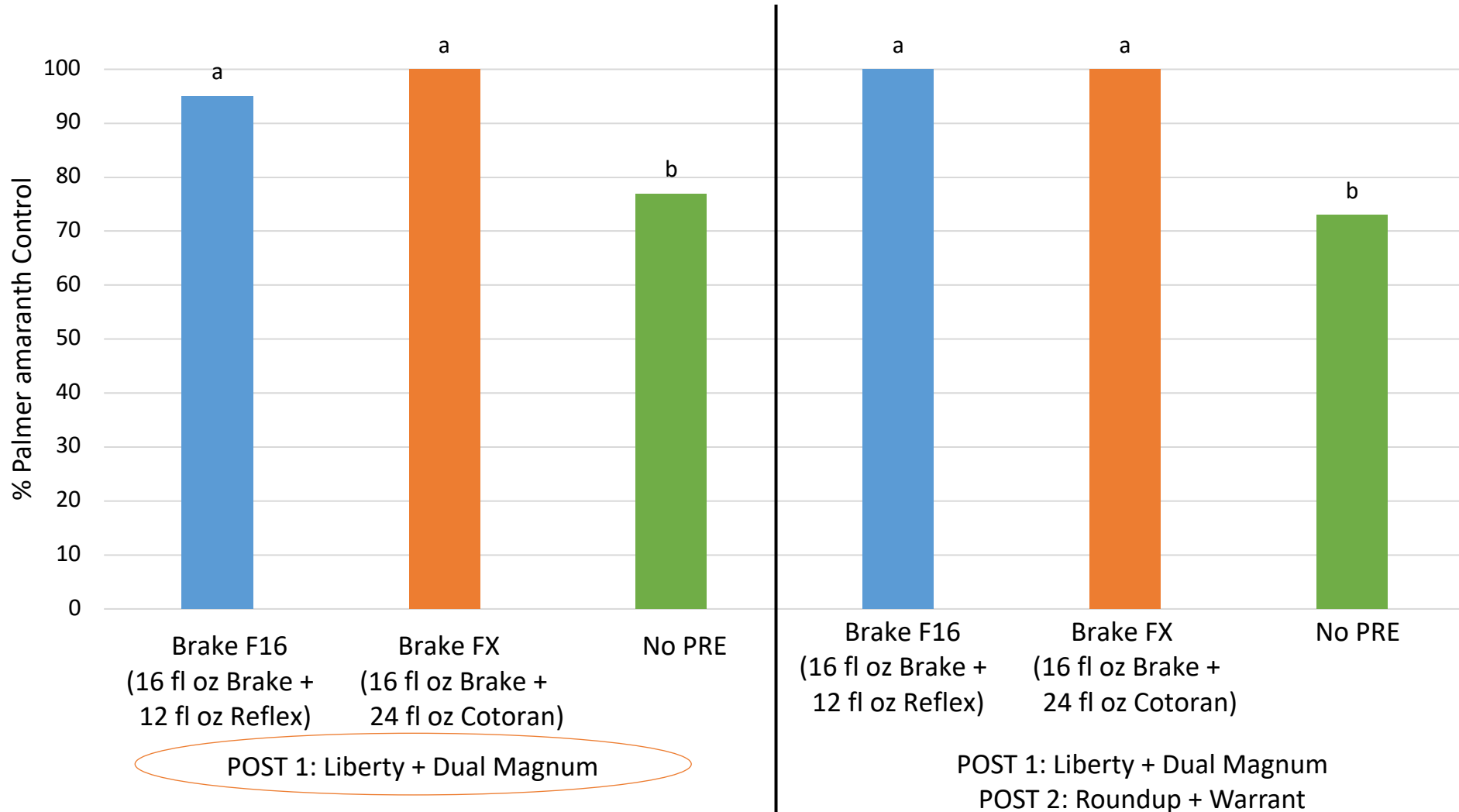
Steps	1) Burndown	2) At Plant Residuals	3) First Post	4) Second Post (If needed)	5) Layby (If needed)
Timing	PrePlant 2 months to 1 week prior to planting	Behind the Planter Within 36 hours after planting	Post 1 Within 18 days after planting	Post 2 Within 18 days after Post 1	Layby Within 18 days after Post 2
Treatment Description	Non-residual product plus residual product (check crop rotation intervals)	Non-residual product plus <b>Brake</b> and 2nd residual product	Post non-residual product(s) plus residual product	Post non-residual product(s) plus residual product	Post non-residual product plus residual product
Non-Residual Herbicide Examples	2,4-D, Roundup®, dicamba, Gramoxone®	Gramoxone, Roundup (Do jar test if adding Gramoxone)	Roundup, Liberty®, XtendiMax®, Engenia®, Enlist One®	Roundup, Liberty, XtendiMax, Engenia, Enlist One	Roundup, MSMA
Residual Herbicide Examples	Valor®, Leadoff®, Direx®	<b>Brake</b> , Reflex®, Cotoran®, Warrant®, Direx	Dual Magnum®, Outlook®, Warrant	Dual Magnum, Outlook, Warrant	Direx, Valor, Cotoran, Zidua®
Examples of Common Mixes	<ul style="list-style-type: none"> <li>• Valor plus 2,4-D plus Roundup</li> <li>• Valor plus dicamba plus Roundup</li> <li>• Roundup plus Leadoff</li> <li>• Valor plus Roundup</li> <li>• Direx plus Gramoxone</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Brake</b> (16 oz) plus Reflex</li> <li>• <b>Brake</b> (16 oz) plus Cotoran</li> <li>• <b>Brake</b> (16 oz) plus Warrant</li> <li>• <b>Brake</b> (16 oz) plus Direx</li> </ul> <p>Add Gramoxone to all applications if any emerged weeds are present at planting. (Do jar test if adding Gramoxone)</p>	<ul style="list-style-type: none"> <li>• <b>Enlist™ Varieties:</b> Enlist One plus Roundup</li> <li>• <b>XtendFlex® Varieties:</b> Roundup plus Engenia or XtendiMax</li> <li>• <b>GlyTol® LibertyLink® Varieties:</b> Liberty plus Dual Magnum</li> <li>• <b>XtendFlex, Enlist, and GlyTol LibertyLink Varieties:</b> Liberty plus Dual Magnum or Warrant</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Enlist Varieties:</b> Enlist One plus Roundup</li> <li>• <b>XtendFlex Varieties:</b> Roundup plus Engenia or XtendiMax</li> <li>• <b>GlyTol LibertyLink Varieties:</b> Liberty plus Warrant</li> <li>• <b>XtendFlex, Enlist and GlyTol LibertyLink Varieties:</b> Liberty plus Dual Magnum or Warrant</li> </ul>	<ul style="list-style-type: none"> <li>• Direx plus MSMA</li> <li>• Valor plus MSMA</li> <li>• Cotoran plus MSMA</li> <li>• Caparol plus MSMA</li> <li>• Roundup plus Zidua</li> <li>• Roundup plus Valor</li> </ul>

# Brake<sup>®</sup> – Overlapping Residuals

57 Days After PRE

43 Days After POST 1

29 Days After POST 2



**Thank you.**

**SePRO Ag**<sup>™</sup>  
*Upgrade Your Crop*