

Wheat Weed Control 2011/2012



Treated



Untreated

Broadleaf Weeds

Great options exists, growers just need to be timely!!!!!!!!!!!!!!!!!!!!

Controlling Most GA Broadleaf Weed Infestations

Most effective program

1. Harmony fb MCPA or 2,4-D
2. Harmony TS + MCPA or 2,4-D
Express TS + MCPA or 2,4-D
3. 2,4-D alone
4. MCPA alone
5. Harmony Extra alone

Least effective program

Harmony Extra EP with TotalSol

Rate: 0.45 to 0.9 oz

Timing: 2-leaf until flag leaf visible

Adjuvant: 0.25% NIS in water
0.125% NIS in nitrogen

Weeds: Controls garlic and most broadleaf weeds

Need Help: wild radish >1.5", primrose, and vetch

Rotations: No restrictions of concern

Grains: Wheat, barley, oats

2,4-D

Rate: 1 to 1.25 pt/A

Timing: fully tillered wheat, before jointing

Adjuvant: none needed

Weeds: controls primrose and radish,
weak on henbit, chickweed, and knawel

Needs Help: henit, chickweed and knawel

Rotations: No restrictions of concern

Grains: Wheat, barley, oats, rye

Express or Harmony TotalSol + MCPA

Express rate: 0.25 to 0.5 oz

Harmony rate: 0.45 to 0.9 oz

MCPA 4L rate: 12-16 fl oz (16-20 oz if fully tillered grain)

Timing: at least two tillers, before jointing

Adjuvant: 0.125% surfactant

Weeds: most broadleaf weeds

Rotations: No restrictions of concern

Grains: Wheat, barley, oats,

The Effect of Stage of Growth on Wild Radish Control in Wheat.

Herbicides	0-4 inches	4-8 inches	8-12 inches	Bolt/Flower
2,4-D	>95% ²	>90%	>80%	<65%
MCPA	>95%	>90%	>70%	<55%
Harmony E.	>80%	>75%	50%	<40%
Express or Harmony + MCPA	>95%	>90%	>80%	<65%
Osprey	>95%	80-90%	60-80%	<50%
PowerFlex	>95%	>90%	75-90%	<65%

¹Wild radish size in diameter of leaf rosette.

²Percent control as compared to untreated areas.

Ryegrass Control in Wheat

- Numerous options:

Axial, Hoelon, Osprey, PowerFlex

IF YOU DON'T HAVE RESISTANCE

Ryegrass Control in Wheat

- Numerous options:

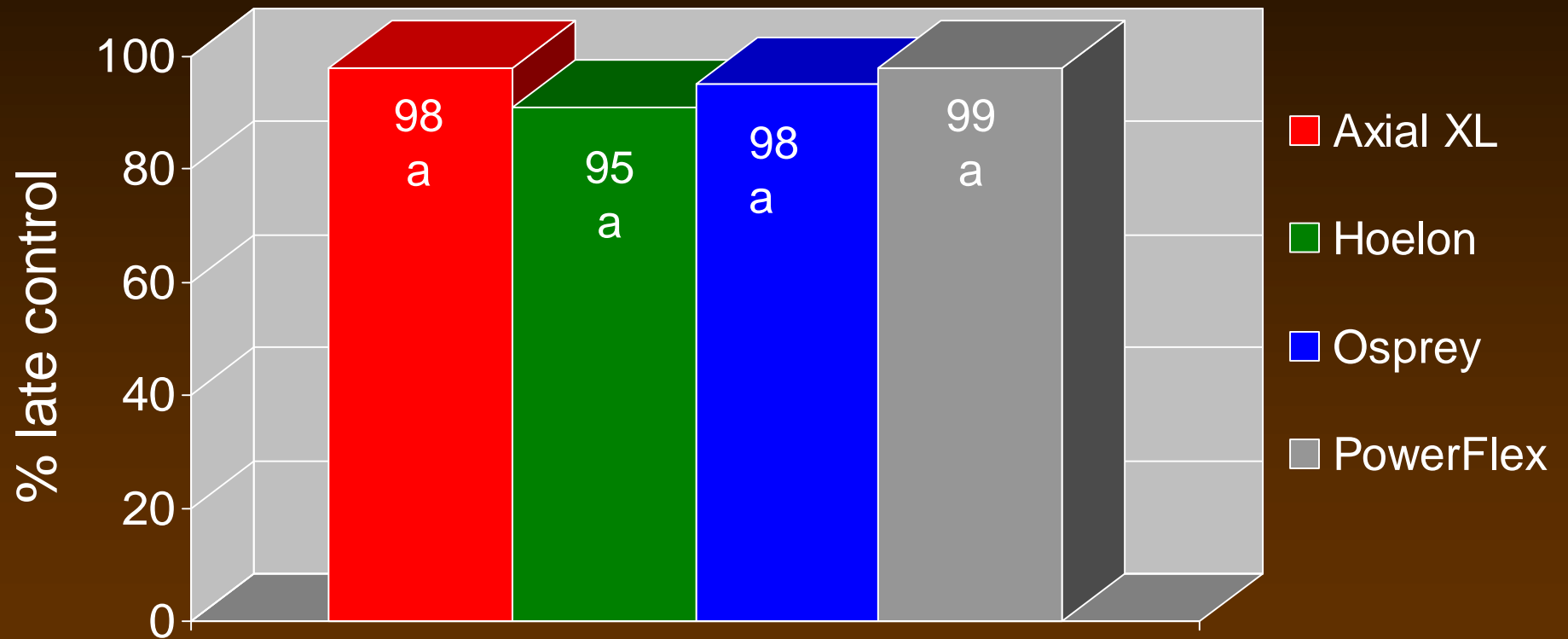
Axial and Hoelon have same mode of action

Osprey and PowerFlex have same mode of action

Proper Timing of POST Materials

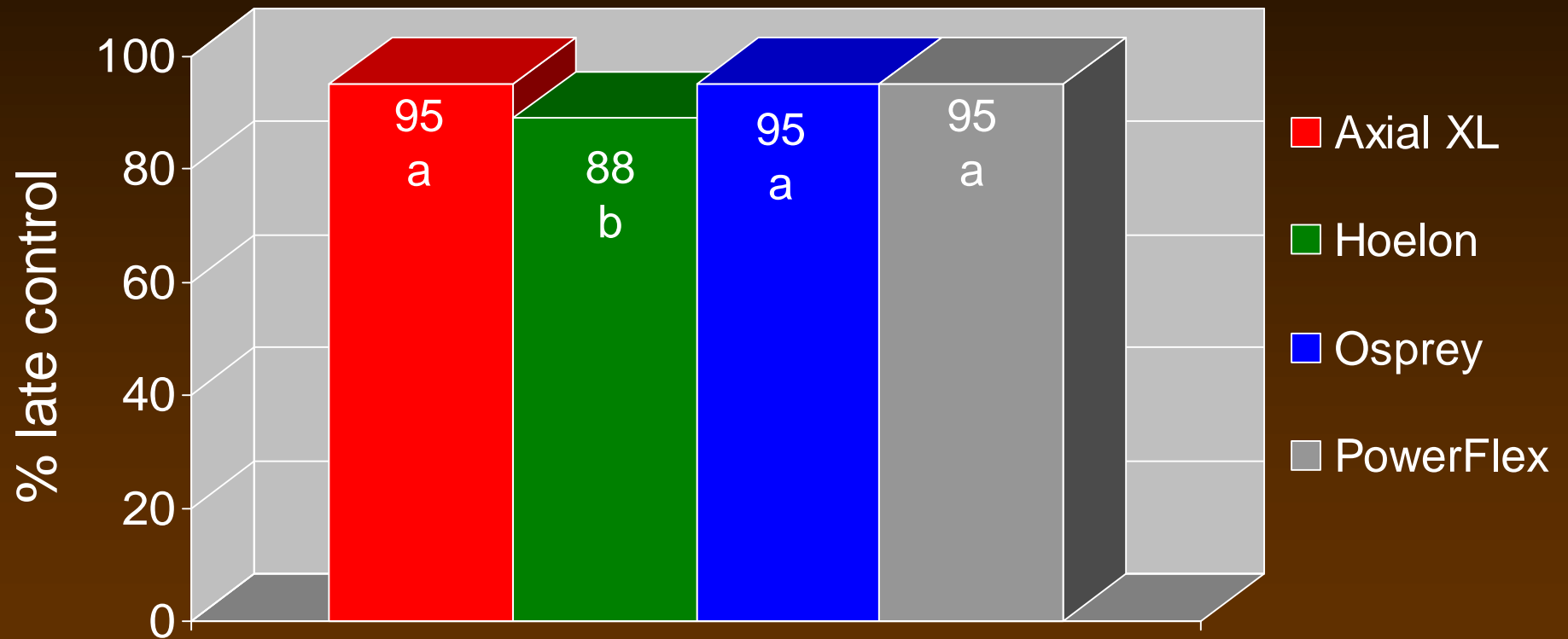
- Timeliness is critical !!!
- With normal planting date, generally best to apply before Christmas

Italian ryegrass control. Plains, 2010.



Planted wheat on Nov 17 and treated December 22 prior to tillering

Italian ryegrass control. Plains, 2010.



Planted wheat on Nov 17 and treated Jan 19, 2 tiller ryegrass

Hoelon Rate for POST on Wheat

Ryegrass

pt/acre

1- to 3 leaf

1.33

3- to 4-leaf

1.33 to 2

5-leaf, 2 tillers

2 to 2.67

Hoelon at 2 pt/A on pre-tillering ryegrass is ideal!!!!!!

Axial XL (0.42 EC)

Rate: 16.4 fl oz

Timing: Ideally pre-tiller ryegrass

Weeds: ryegrass only

Rotate modes of action, resistance is a huge issue!

Osprey

Rate: 4.75 oz/A

Timing: Ideally pre-tiller ryegrass

Adjuvant: NIS at 0.5% v/v plus ammonium nitrogen fertilizer at 1-2 qt/A

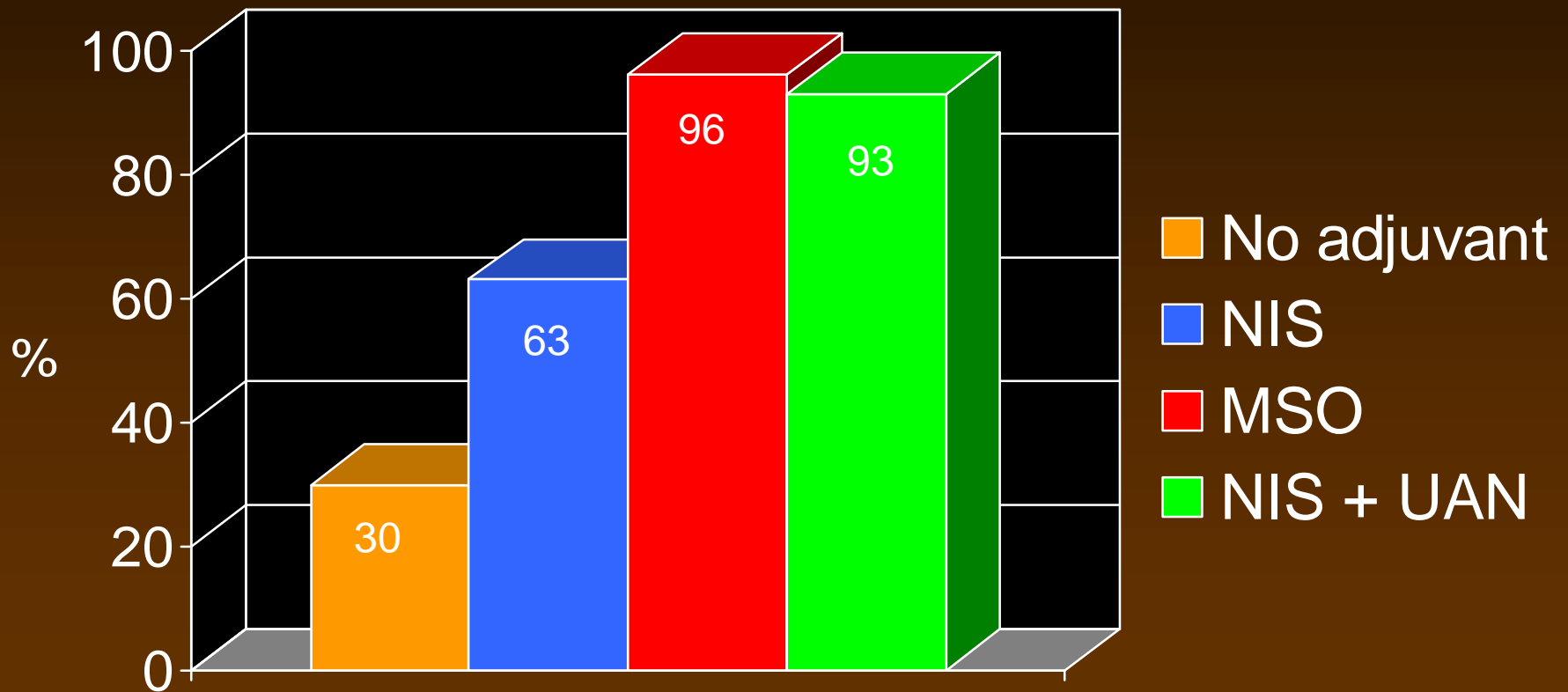
Weeds: ryegrass, small radish,
henbit and chickweed at 1"

Rotation: 3 mo soybean or cotton

Do not apply within 14 d of topdressing

Rotate modes of action, resistance is a huge issue!

Late-season ryegrass control by Osprey as affected by adjuvants. Avg. six locations, NC, 2002-2004.



PowerFlex

Rate: 3.5 oz/A

Timing: Ideally pre-tiller ryegrass

Adjuvant: COC at 1% v/v

Weeds: ryegrass, radish

Rotation: soybean and cotton 3 month

Rotate modes of action, resistance is a huge issue!

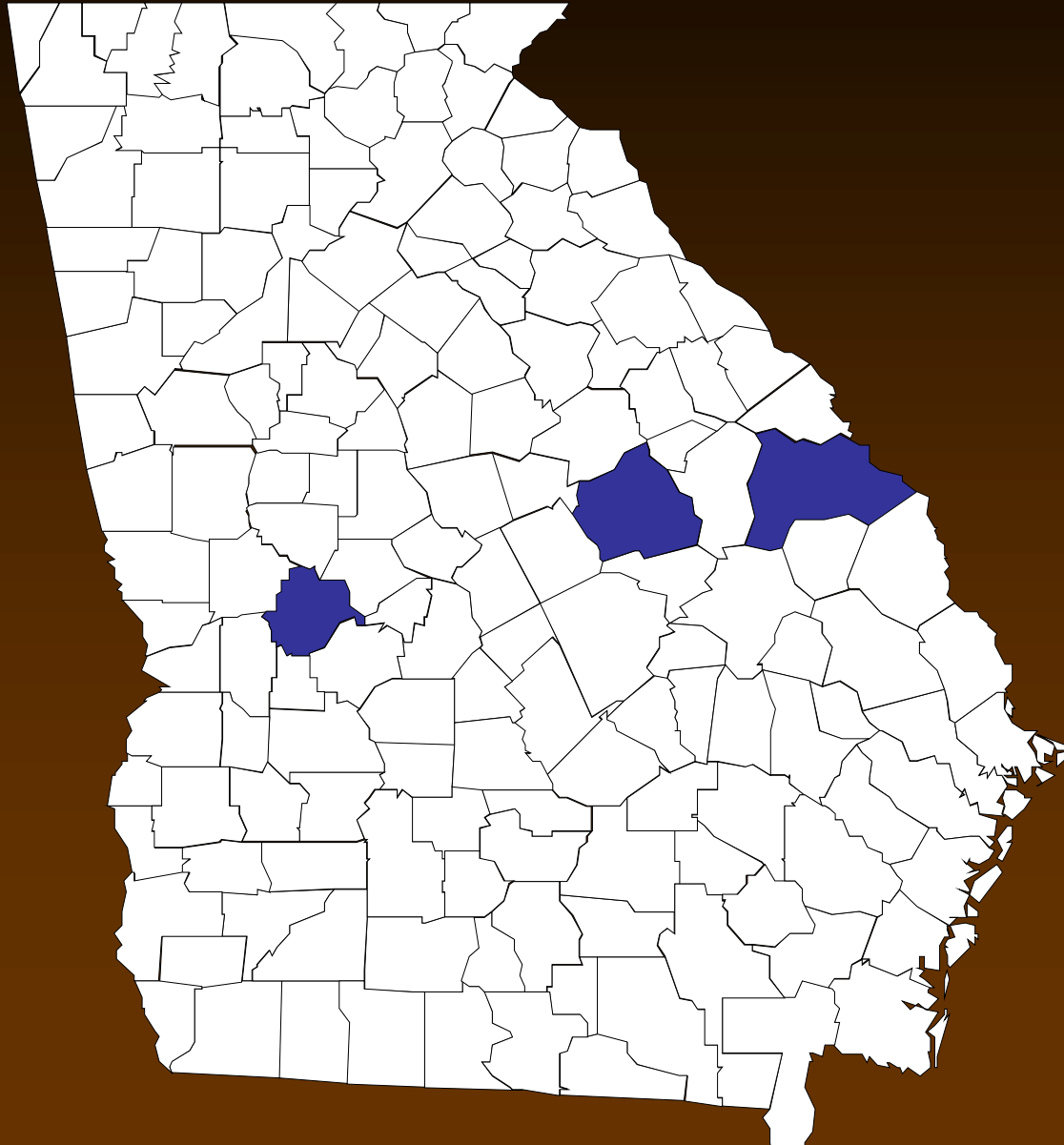
YOU WANT TO KEEP GROWING WHEAT???????

- **NEVER TREAT THE SAME GROUND WITH
OSPREY OR POWERFLEX 2 YEARS IN A ROW**

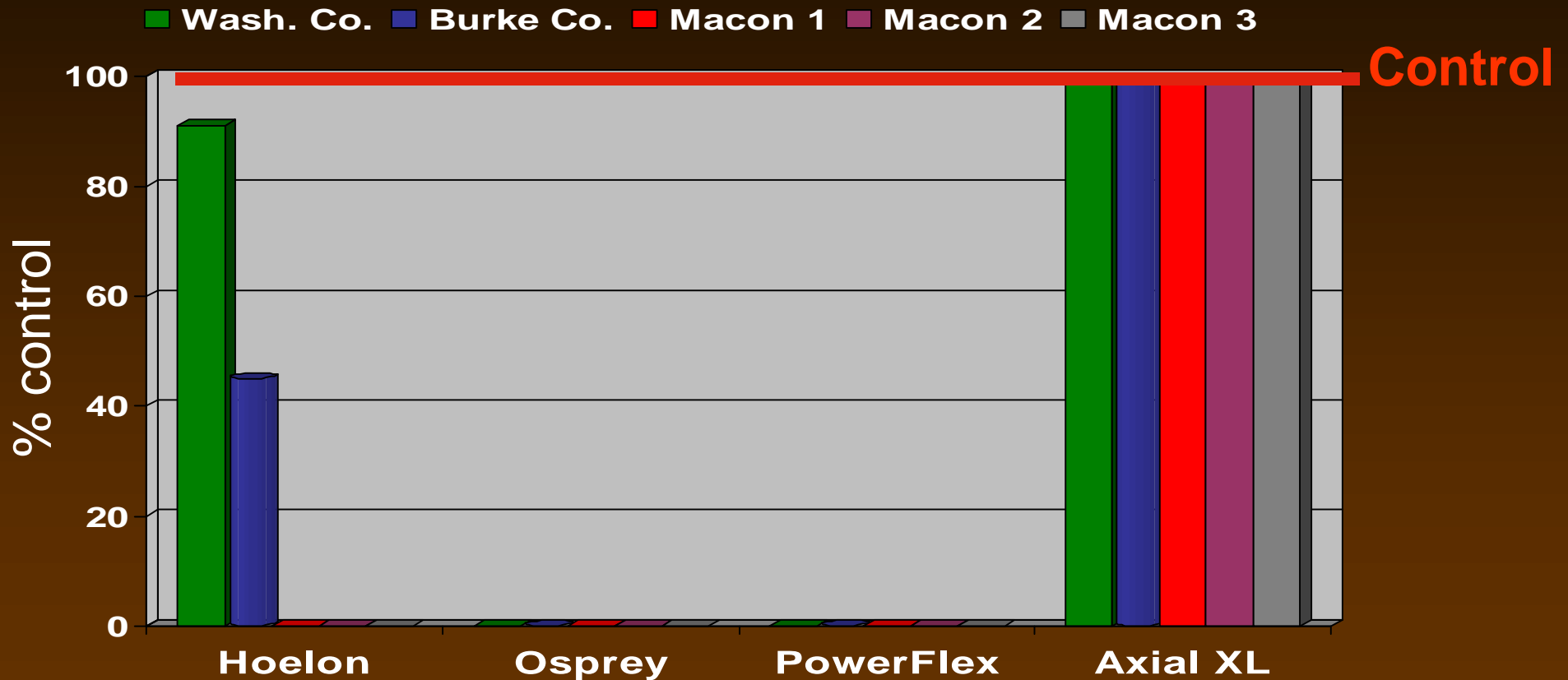
- **NEVER TREAT THE SAME GROUND WITH
HOELON OR AXIAL XL 2 YEARS IN A ROW**

- **Ryegrass resistance will likely occur within 3 years if
you do not follow these guidelines!!!!!!!!!!!!!!!!!!!!!!**

**2010 Georgia counties confirmed with
Hoelon/Osprey/PowerFlex resistant ryegrass.**

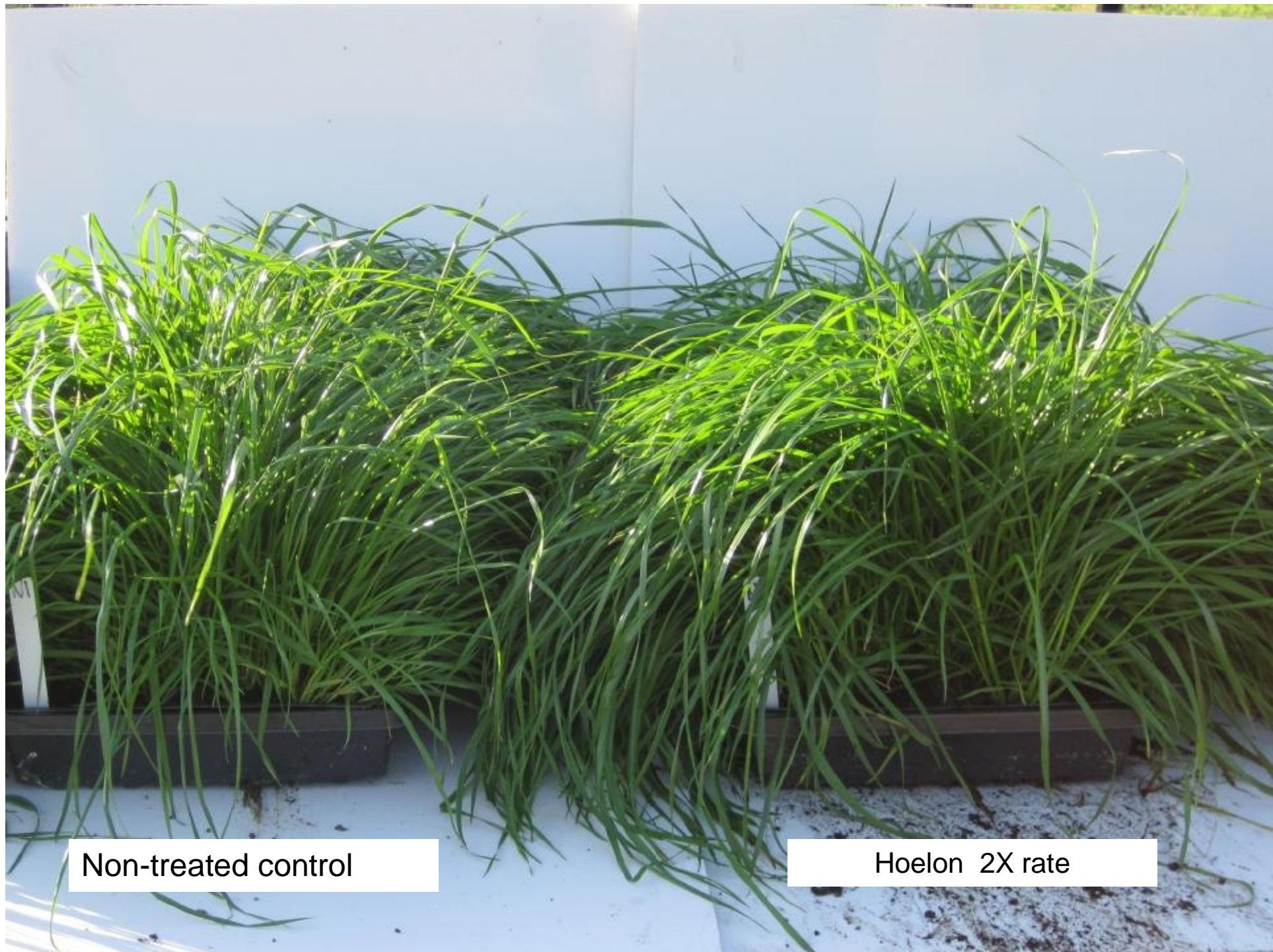


Annual Ryegrass Response to 4X Field Use Rates. Greenhouse. Tifton, GA. 2008-2009.



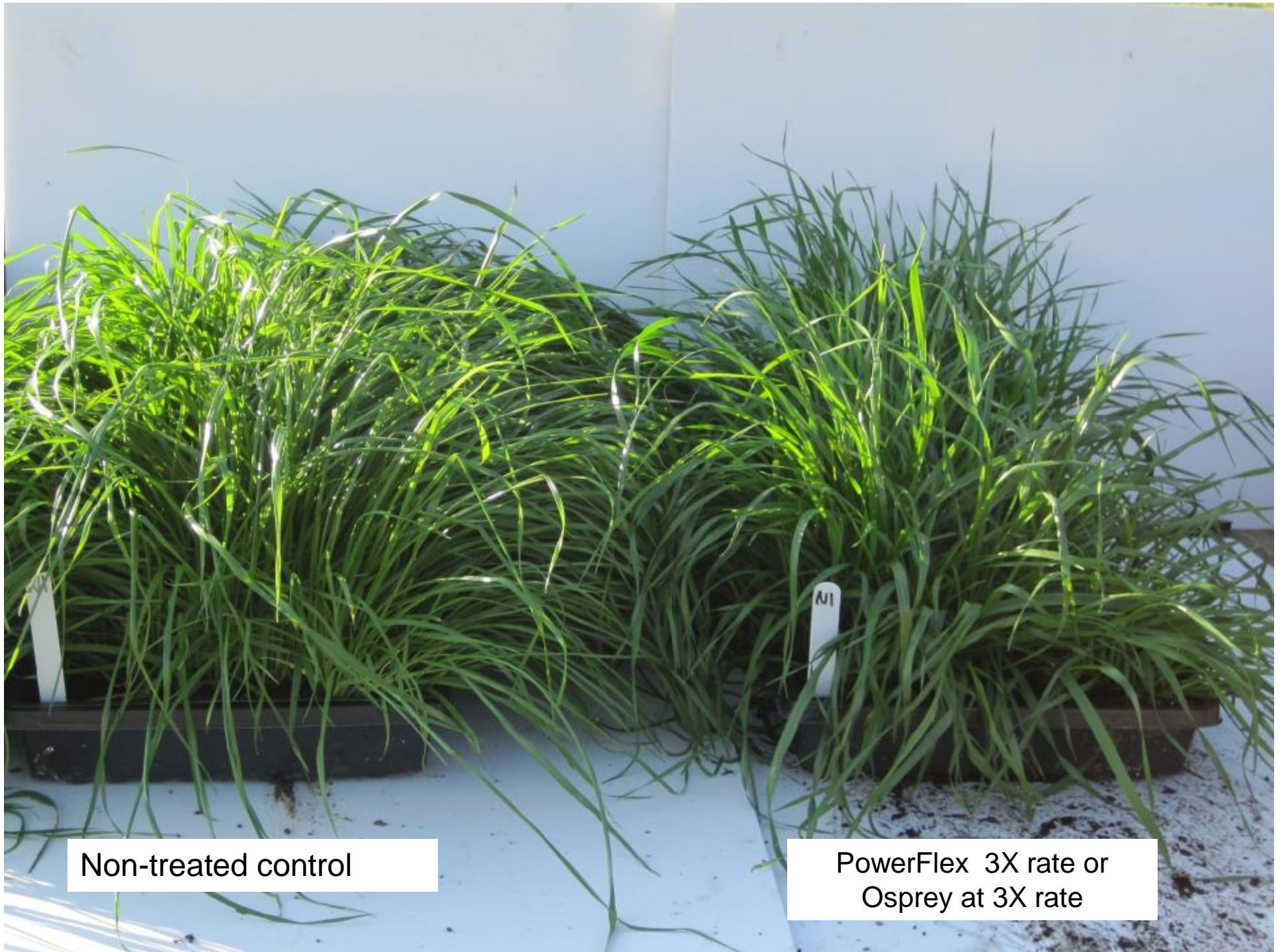
HISTORY: Hoelon till it stopped working then Osprey at least one time per year since available.

Newton 1
11/29/2011



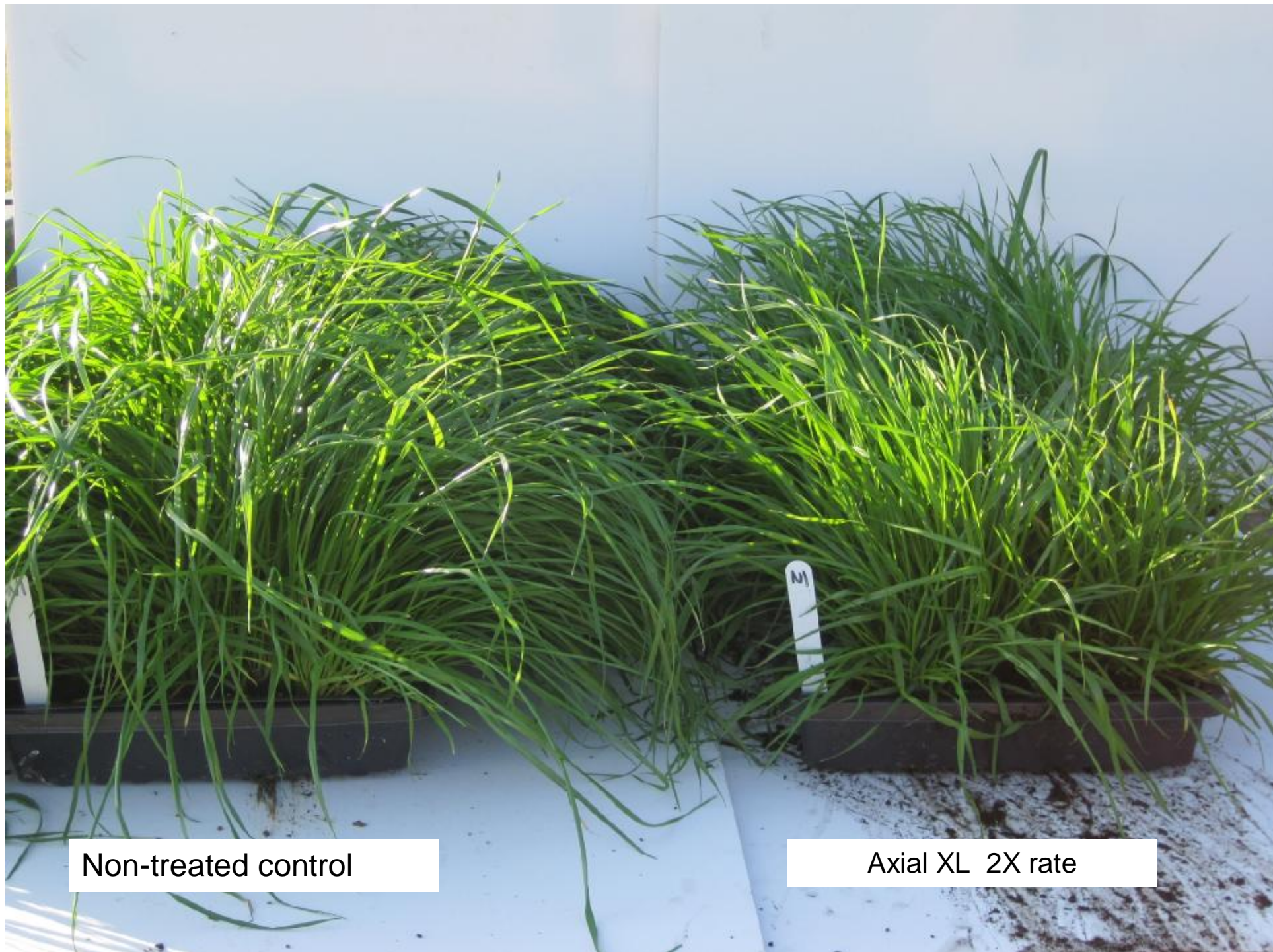
Non-treated control

Hoelon 2X rate



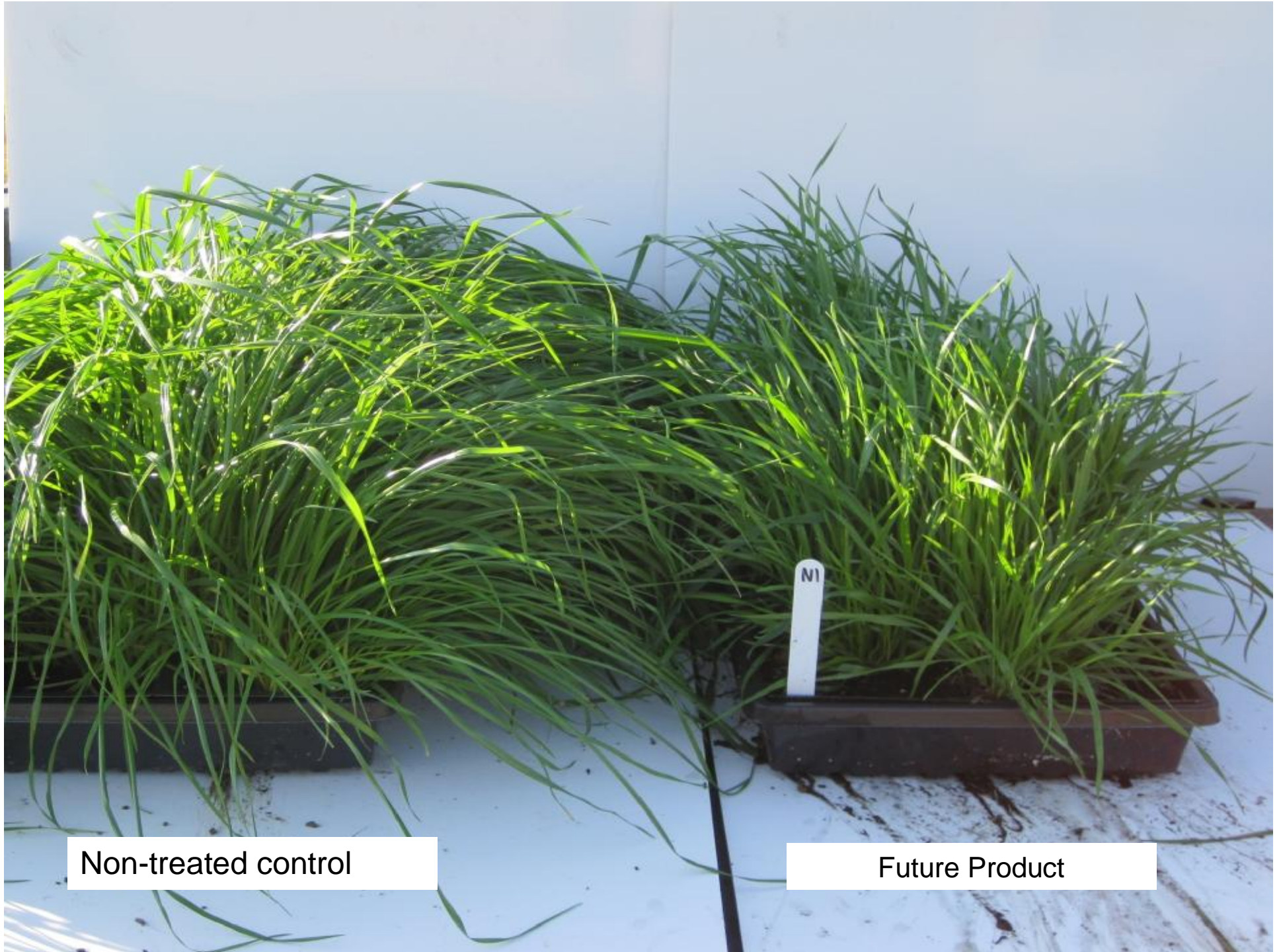
Non-treated control

PowerFlex 3X rate or
Osprey at 3X rate



Non-treated control

Axial XL 2X rate



Non-treated control

Future Product

Prowl H2O Labeled For Wheat

- **FAIR** residual control of ryegrass
- Must apply to wheat from 1st leaf stage until before flag leaf.
- May mix with any currently labeled wheat herbicide.

Will help on resistance!!!!

Axiom Labeled For Wheat

- Spike application to wheat (pray the ryegrass is not up before product is activated)
- Generally 6 to 8 oz/A
- Excellent broadleaf control
- Ryegrass control is either good or very poor depending on when it emerges
- Only option for some growers due to resistance
- Injury can be significant if very heavy rains and cold conditions occur after application

Will help on resistance!!!!

Zidua for wheat?

- Working on rates and application timings.
- **Unbelievable** ryegrass control **IF** injury potential does not require rates reduced to far?
- Likely economical for wheat producers.
- Label possible for 2012/2013 (limit use).
- **Injury can be significant if very heavy rains and cold conditions occur within 10 day of application.**

Excellent resistant management tool when rotated with POST ryegrass materials!!

Annual bluegrass

- Osprey is excellent; Axiom is fair/good!

