

2011 GFVGA: New Herbicide Update for Georgia Vegetables



Dual Magnum

Chateau

Laudis

Select Max

Reflex

Paladin

Dual Magnum New Labels

1. Cabbage
2. Broccoli
3. Collards
4. Cauliflower
5. Bell Pepper transplants
6. Green or dry bulb onions

Dual Magnum Indemnified New Labels

1. www.farmassist.com
2. Indemnified labels
3. Login (or create login and password)
4. Georgia, Dual Magnum
5. Accept Waiver
6. Print label

Cabbage, Broccoli, Collard, and Cauliflower

Bareground transplants: POST

1. after transplant, irrigate to seal soil around rootball.
2. Five to 10 days after irrigation, apply over top of transplants at a rate of 8 to 16 oz/A.

Mulched transplants: POST

1. transplant in old mulch
2. wait 10 days
3. spray 8 to 16 oz/A Dual Magnum overtop

Cabbage and Broccoli Response to Dual Mag



Dual Mag 16 oz POST



No Dual Mag.

Cabbage and Broccoli Response to Dual Mag



Dual Mag POT 10 d



No Dual Mag.

In bareground need to be using Treflan PPI

Cabbage, Broccoli, Collard, and Cauliflower

Bareground seeded: POST

1. after crop reaches 3 inches.
2. apply over top at a rate of 8 to 12 oz/A.

Cabbage, Broccoli, Collard, and Cauliflower

Transplant bareground:

1. Treflan PPI
2. Goal pretransplant (cabbage, broccoli, cauliflower)
3. Dual Magnum POST

Seeded bareground:

1. Treflan PPI
2. Devrinol PRE (cabbage, broccoli, cauliflower)
3. Dual Magnum POST

Cabbage, Broccoli, Collard, and Cauliflower

Mulch:

1. Burndown preplant, wash mulch
2. Dual Magnum POST

Do not currently understand how Goal or Devrinol interact with mulch when applied topically.

Bell Pepper

(Plasticulture and Bareground)

- 1. Preplant application**
- 2. POST application**
- 3. Split application**

Bell Pepper

(Plasticulture and Bareground)



Preplant under mulch:

Devrinol

Command

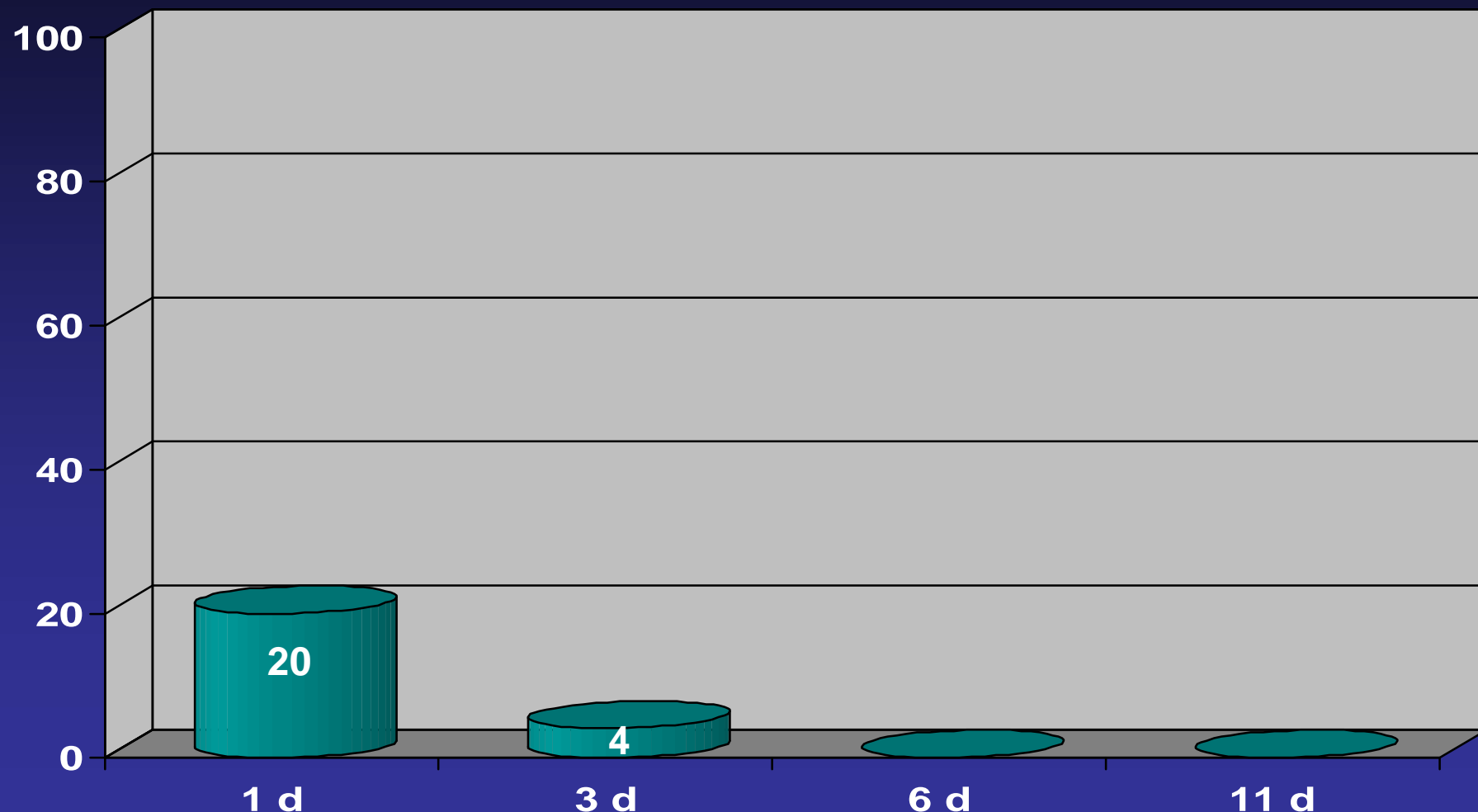
POST 1:

12 oz Dual Mag

POST 2:

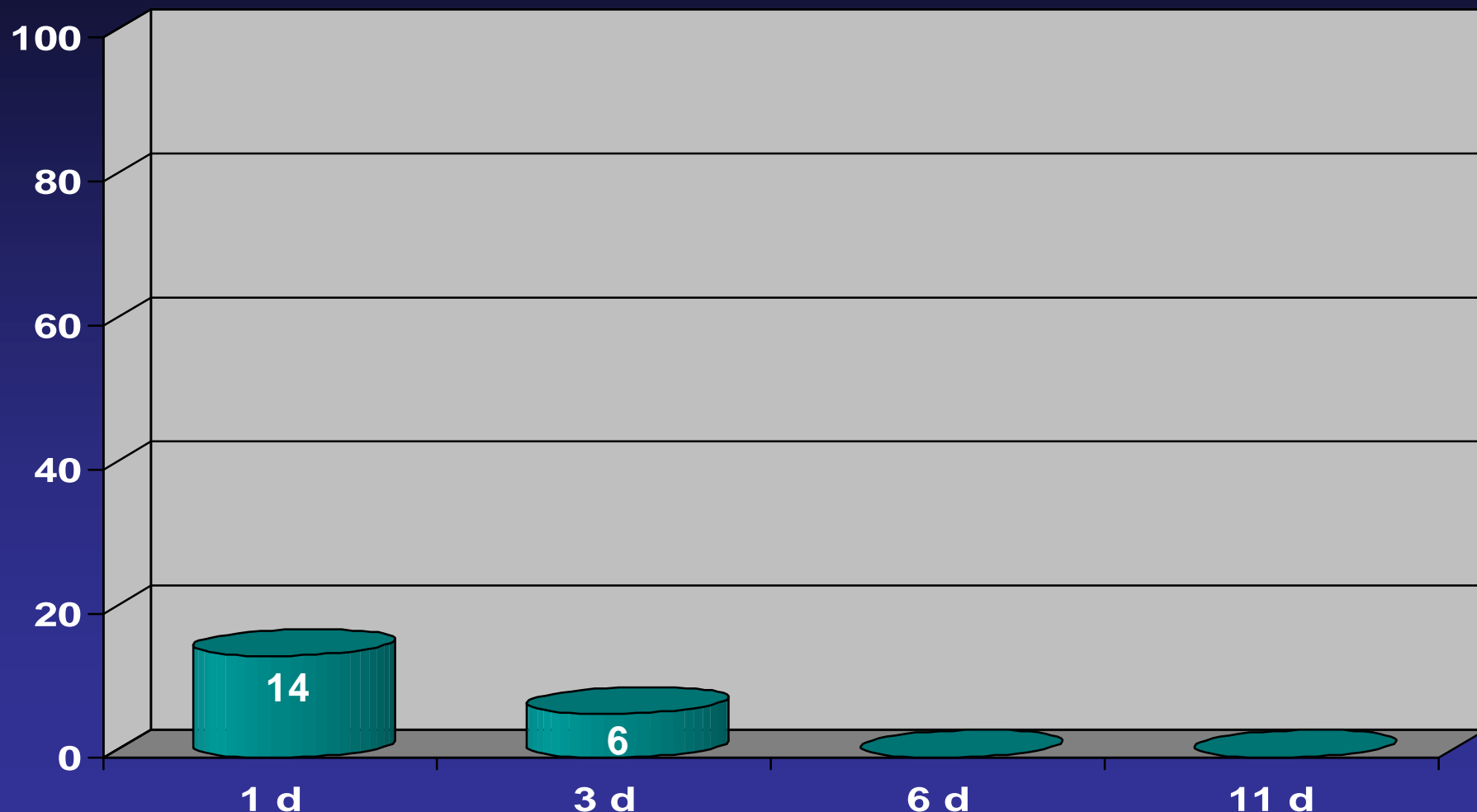
Select Max as needed

Bell Pepper Response to Dual Magnum Applied Topically. TyTy, GA. 2010.



Days after transplant for Dual application

Tomato Response to Dual Magnum Applied Topically. TyTy, GA. 2010.



Days after transplant for Dual application

Dual Magnum in Onion

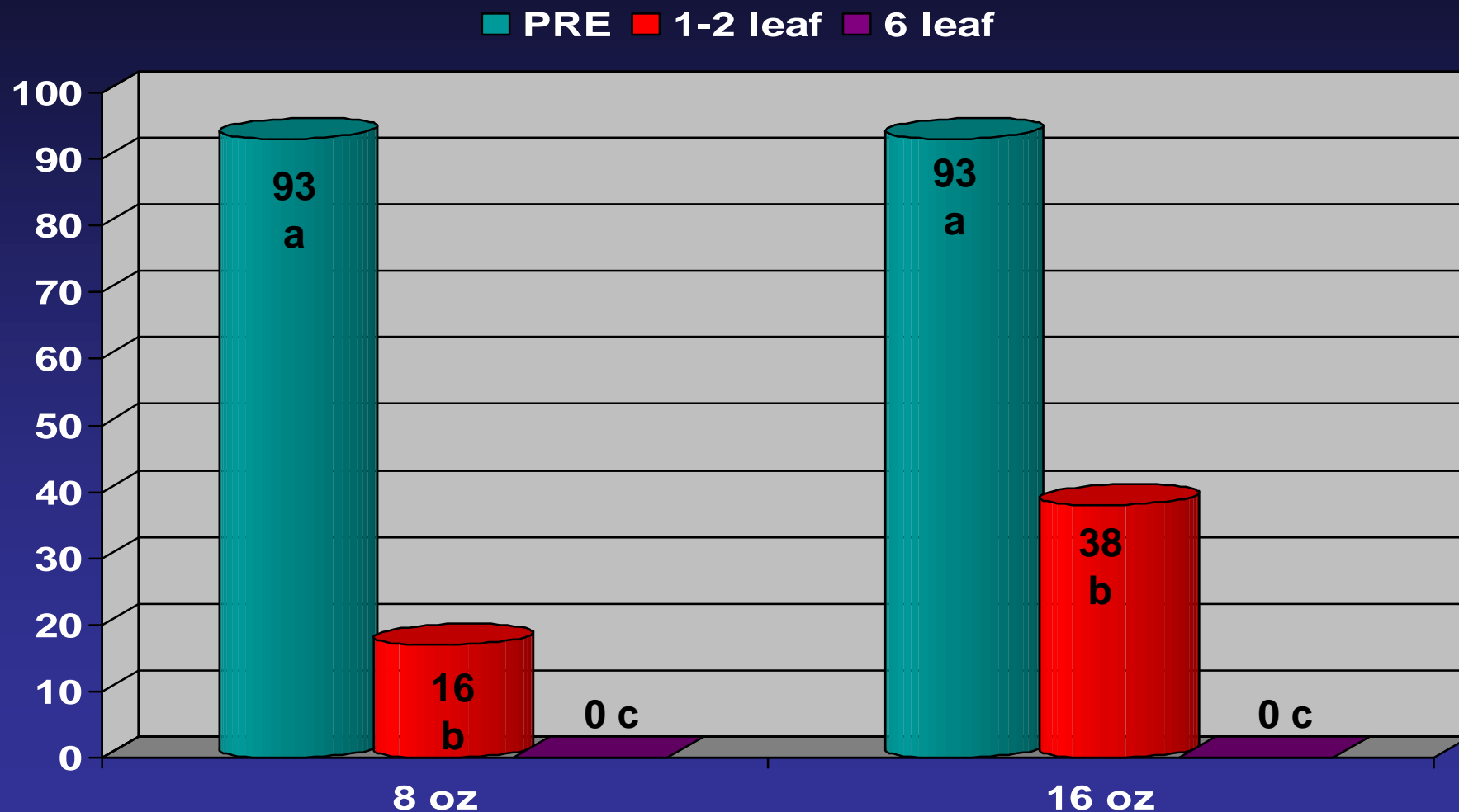
- Seeded and transplant

Transplant dry bulb: no big fit continue
with Prowl + Goal

Seeded Onion (dry bulb or green)

1. Apply 6 to 8 oz of Dual Magnum at 4 leaf
2. Apply up to 12 oz Dual Magnum at 6 leaf

Seeded onion injury from Dual Magnum. 2006.



Chateau Row Middle Mulch Labels

Been Labeled:

1. Tomato
2. Pepper
3. Eggplant
4. Watermelon
5. Cantaloupe

Labeled Now:

1. cucumber
2. squash
3. pumpkin

Third Party Registrations

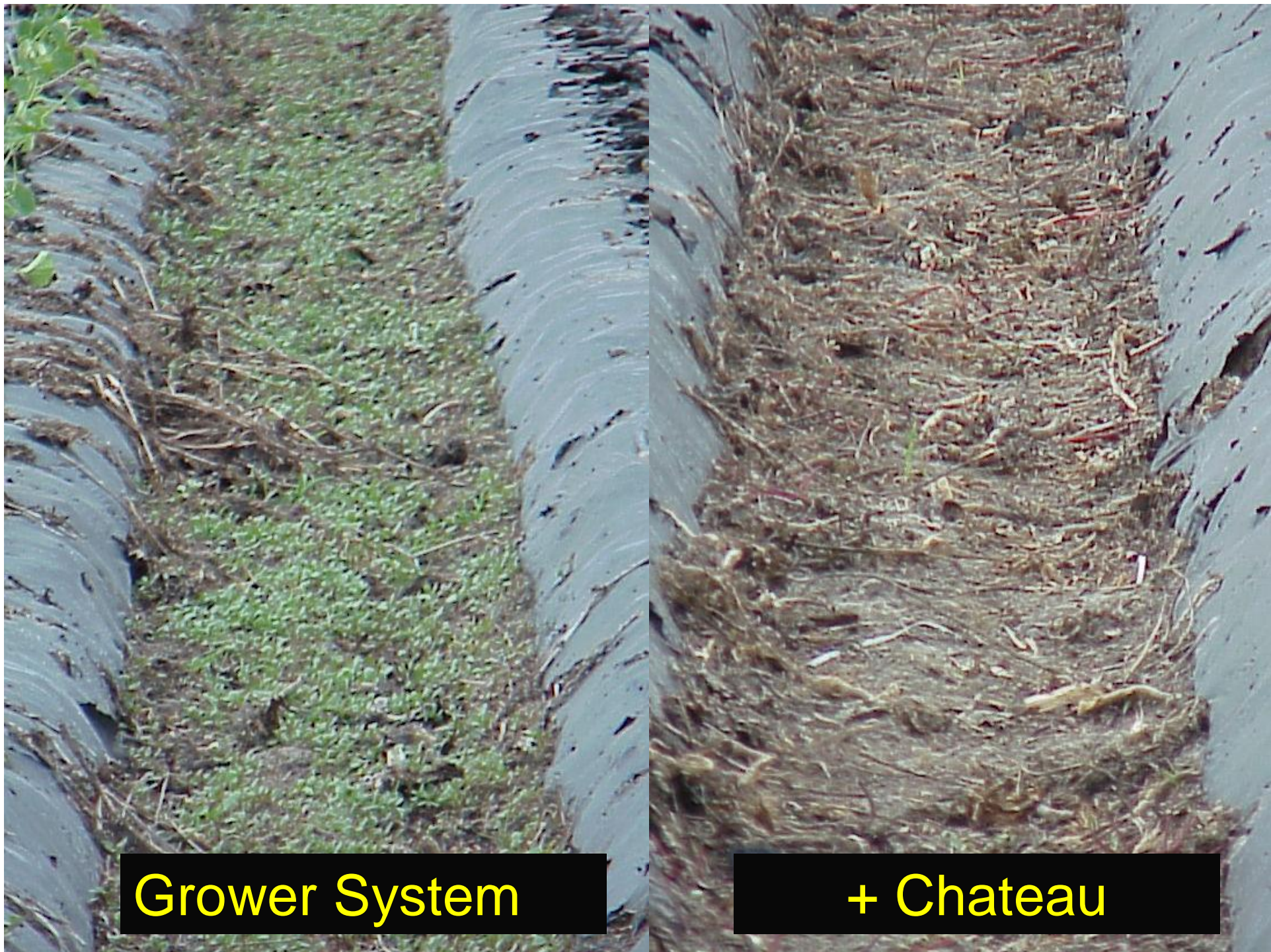
1. Labels are held by GFVGA.
2. Label must be in hand of user.
3. Small fee.
4. Growers must support this program.

Chateau Row Middle Labels

1. Raised bed only
2. Up to 4 oz/A
3. Spray before planting
4. Do not touch the mulch with spray
5. Product can not be effectively washed from the mulch

Chateau Row Middle Mulch Label

- 6. Need rain after application, prior to transplant**
- 7. Residual control of purslane, eclipta,
pigweeds, beggarweed**
- 8. Need tank mix partner for grasses**



Grower System

+ Chateau

**Great fit for row middles without cover
crop...what happens with cover?**



Reflex

1. tomato and pepper very soon
2. watermelon 2012/2013
3. squash 2012/2013
4. cantaloupe 2013?

Reflex: Tomato/Pepper

NOT LABELED YET

Bareground, transplants:

Apply 1 to 1.5 pt/A preplant non-incorporated up to 7 days prior to transplanting. Irrigate before transplanting if possible.

Mulch, transplants:

Apply 1 to 1.5 pt/A after final bed form, drip tape laid, and just prior to mulch.

Excellent control of pigweeds, eclipta, starbur,

Good control of yellow nutsedge, smallflower mg, ragweed, purlane, poinsettia





Cantaloupe Response to Reflex



Follow recommended system



Try it yourself?

Injury from Reflex drift or poor tank cleanout!

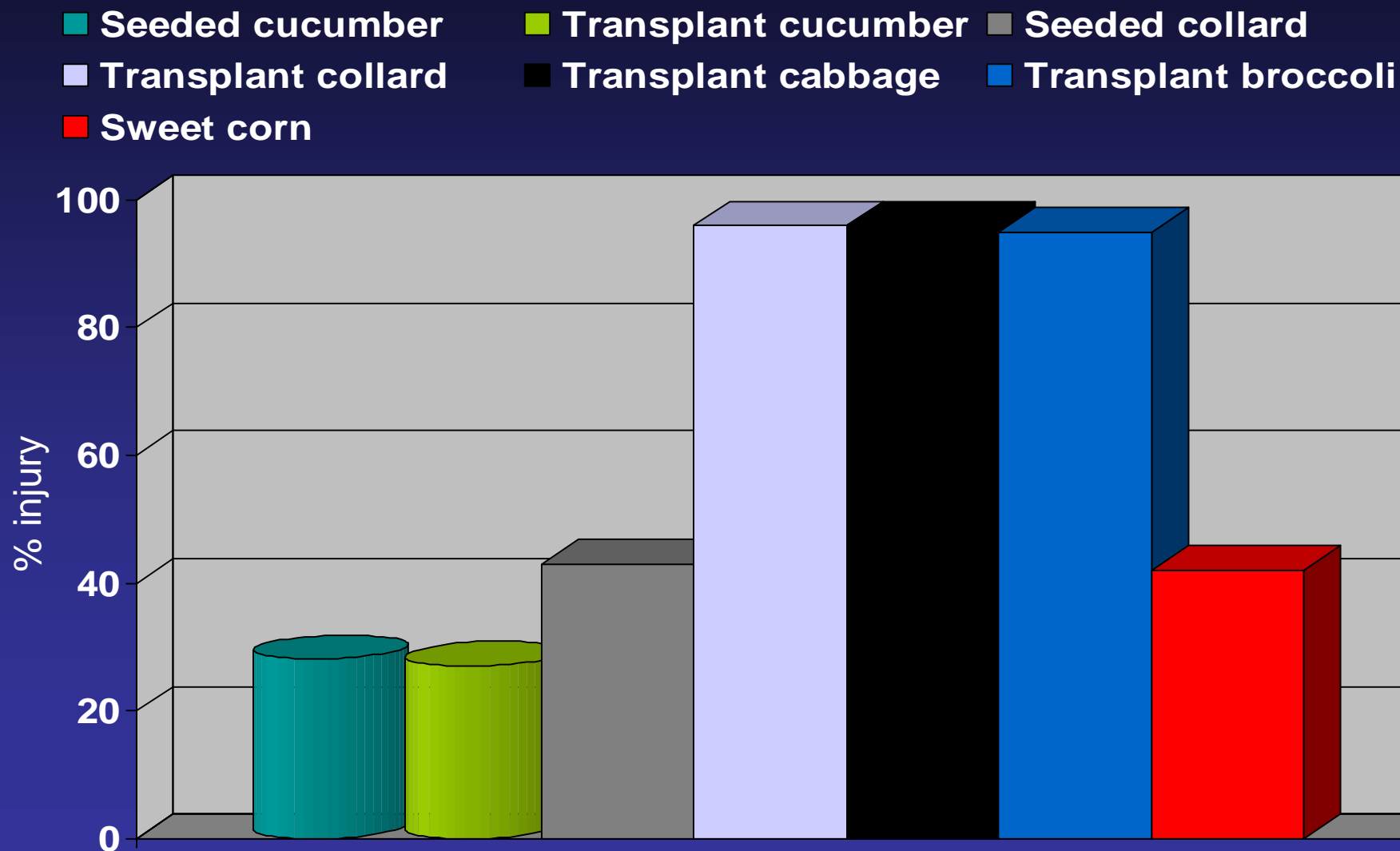


pepper



cantaloupe

Carryover from Reflex applied under mulch. Crops planted 6 months later. 2007



Grass Control Herbicides



Clethodim + COC, Cook Co. 2009

Grass Control Issues with Select or Poast Products

More Control but More Injury

full rate of crop oil

half rate of crop oil

nonionic surfactant

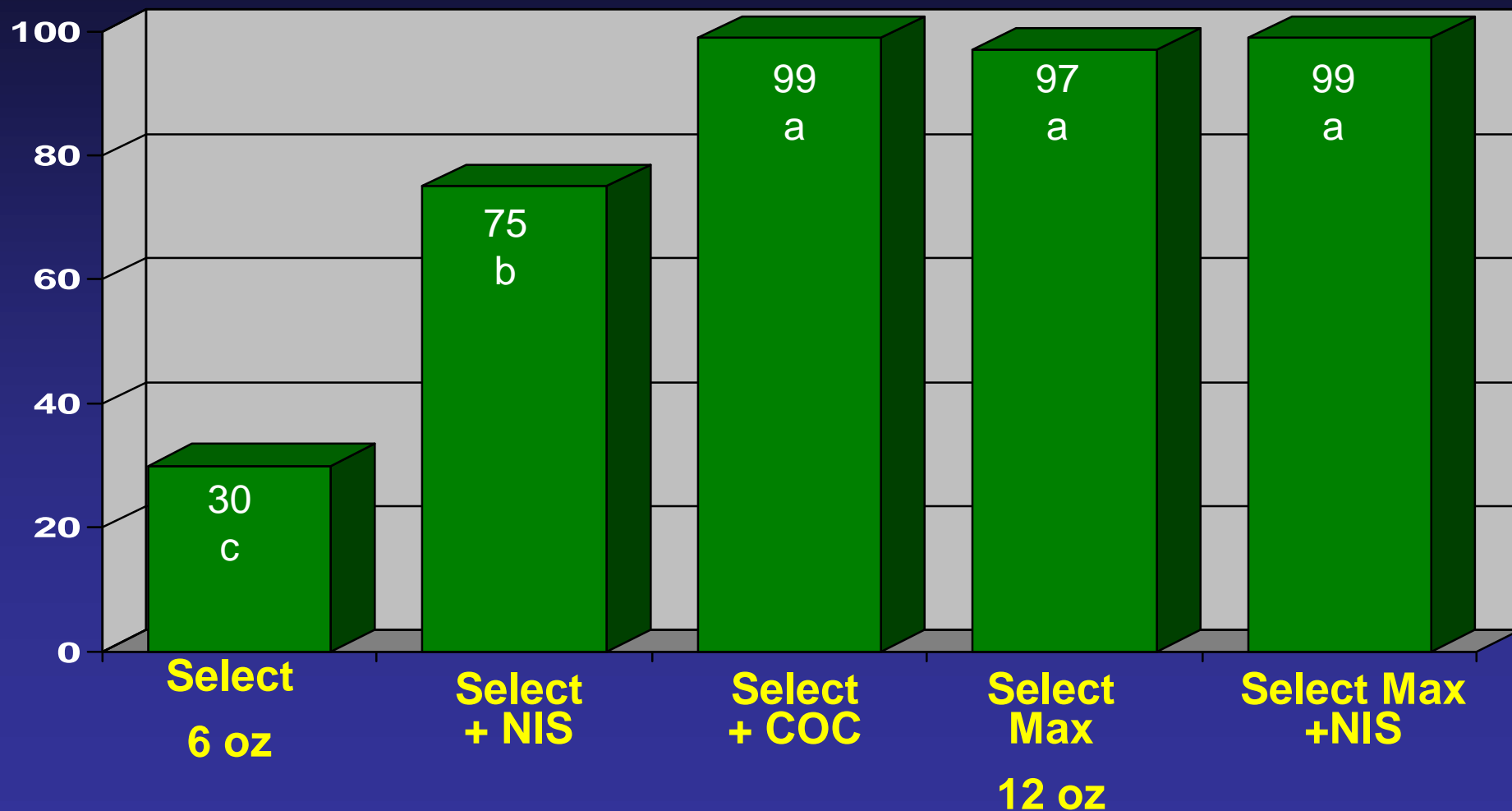
no surfactant

Less Injury but Less Control

Select Max

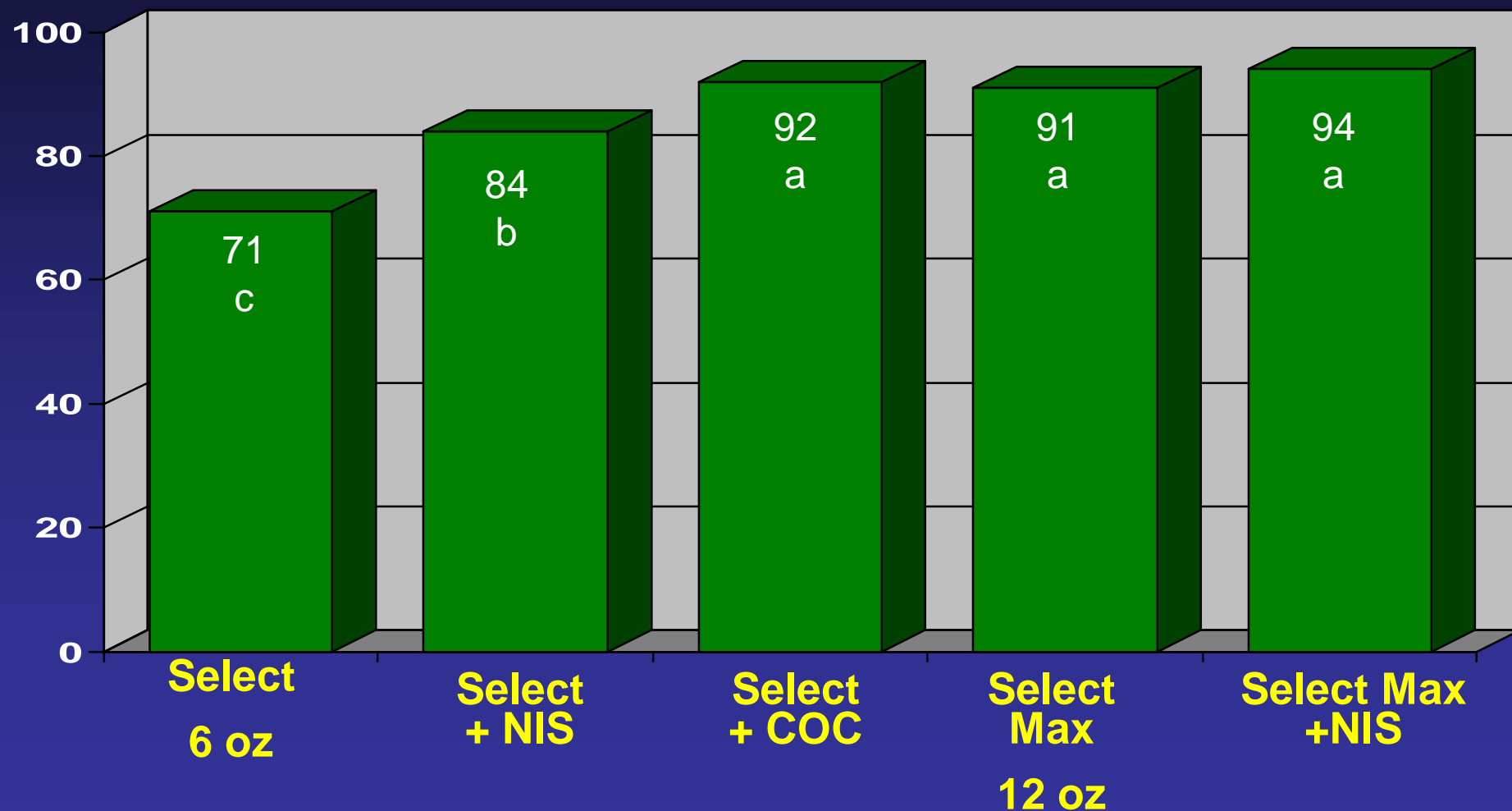
- clethodim
 - Select Max 0.97 EC
 - Apply twice the rate of Select 2 EC
 - Cucurbits and fruiting vegetables
 - Current label allows NIS or COC
 - State label allows no adjuvant

Percent large crabgrass control with various clethodim products and adjuvants. TyTy, GA 2009.



Large Crabgrass 4 inches at time of application!

Percent Texas millet control with various clethodim products and adjuvants. TyTy Annex, GA 2010.



Texas millet up to 8 inches at time of application!

Weed Control in Sweet Corn



Laudis 3.5 SC

- active ingredient = Tembotrione
- limited research (not included in PCH)
- field corn, seed corn, sweet corn and popcorn
- focus today on sweet corn
- controls crabgrass, goosegrass, broadleaf signalgrass, and **Texas panicum (millet) up to 3 inches**

Sweet Corn and Texas Millet Response to Laudis Systems. Ty Ty, GA. 2009. V17.



Non-treated control



Laudis 3 oz + MSO to 3" millet

Sweet Corn and Texas Millet Response to Laudis Systems. Ty Ty, GA. 2009. V17.



Non-treated control



Laudis 3 oz + MSO to 6" millet

Sweet Corn and Texas Millet Response to Laudis Systems. Ty Ty, GA. 2009. V17.



Atrazine PRE

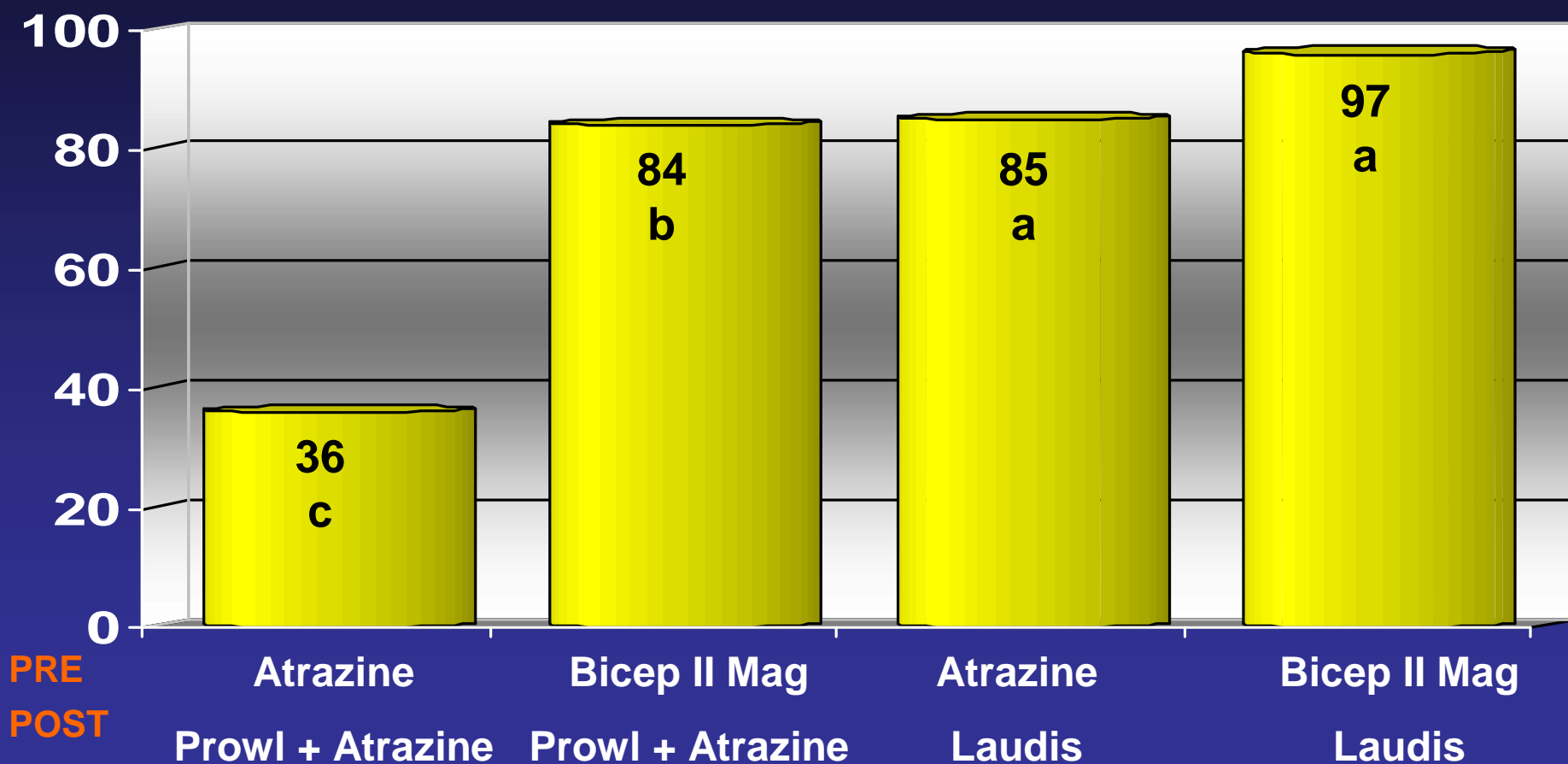
Laudis + MSO 3" millet



Bicep II Magnum

Laudis + MSO 3" millet

Percent Texas Millet Control at Harvest. TyTy, GA 2010. V4-10.



Atrazine 1 qt/A; Bicep Mag. 2 qt/A; Laudis 3 oz/A.

Laudis 3.5 SC

- do not apply to Merit or Shogun cultivars
- limited experience (VC0808, WSS0987, WSS 0987, GSS 0966)
- 3 oz product per acre from emergence to V7
- include an MSO (methylated seed oil)
- can tank mix with atrazine
- only one application

Laudis: Carryover Concerns?

- Label
 - 4 months: grains
 - 8 months: soybean
 - 10 months: cotton, tomato, snapbean
 - 18 months: cucurbits, other crops
- UGA has limited carryover data!

DMDS (Paladin) Registered



No Fumigant



Paladin Pic

Georgia Vegetable Commodity Commission

Support for most of this work!!!!