

2018 Cotton Weed Management



THE UNIVERSITY OF GEORGIA
**COOPERATIVE
EXTENSION**

Stanley Culpepper
UGA Extension
Tifton, GA

Auxin Technologies

WEED MGMT



STEWARDSHIP



Weed Management Programs

1. Clean at planting
2. Preemergence application
3. Sequential Timely POST's (most fields)
4. Layby.....key to our future



Auxin Systems – Clean At Planting

Tillage



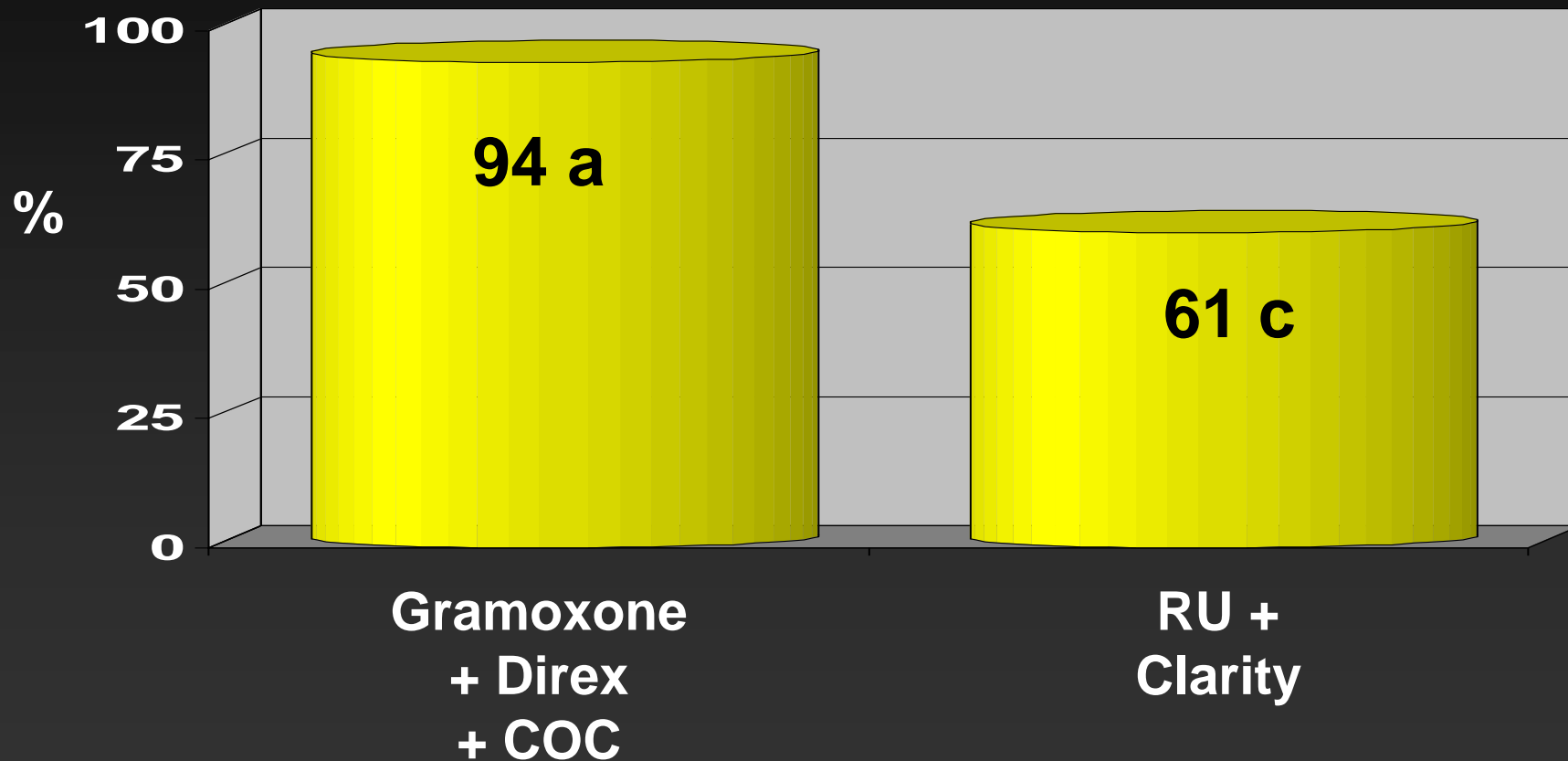
Cover Crop



Burndown



Control of 3-7" Palmer Amaranth



C52-15. Gramoxone, Direx, COC, & Wmax = 1 qt/A; Clarity 16 oz/A.

Burndown: 2,4-D vs Dicamba When Mixed with Roundup

	2,4-D	dicamba
Horseweed	+	++
Primrose	++	+
Radish	++	+
Cost	++	+
Plantback	+ 2,4-D	+ dicamba

Burndown: 2,4-D vs Dicamba When Mixed with Roundup

2,4-D

dicamba

New formulations allow application to respective cultivars at any point before planting.

Plantback

?

?

Burn Down: 2,4-D vs Dicamba When Mixed with Roundup

2,4-D Dicamba

New for
app
allow
ective

BAD IDEA – kill at least 10 d in
advance.....exception is cereal grains

Plantback

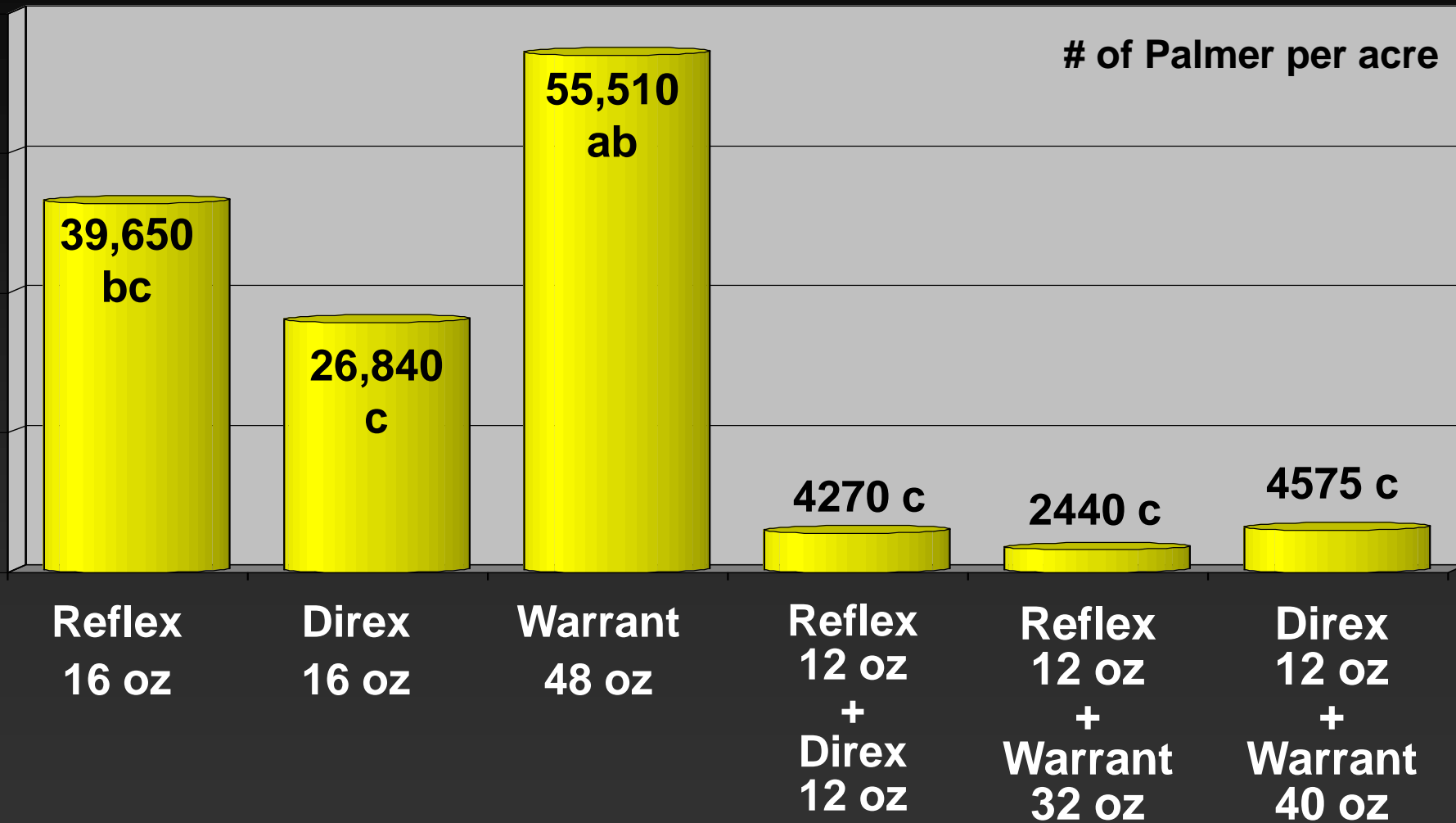
?

Auxin Systems – PRE REQUIRED



1. Resistance management!!!!
2. Coverage
3. Early-season competition
4. Need no injury concern, low cost (\$9.18 without reward)

Number of emerged Palmer amaranth/A at 21 d.

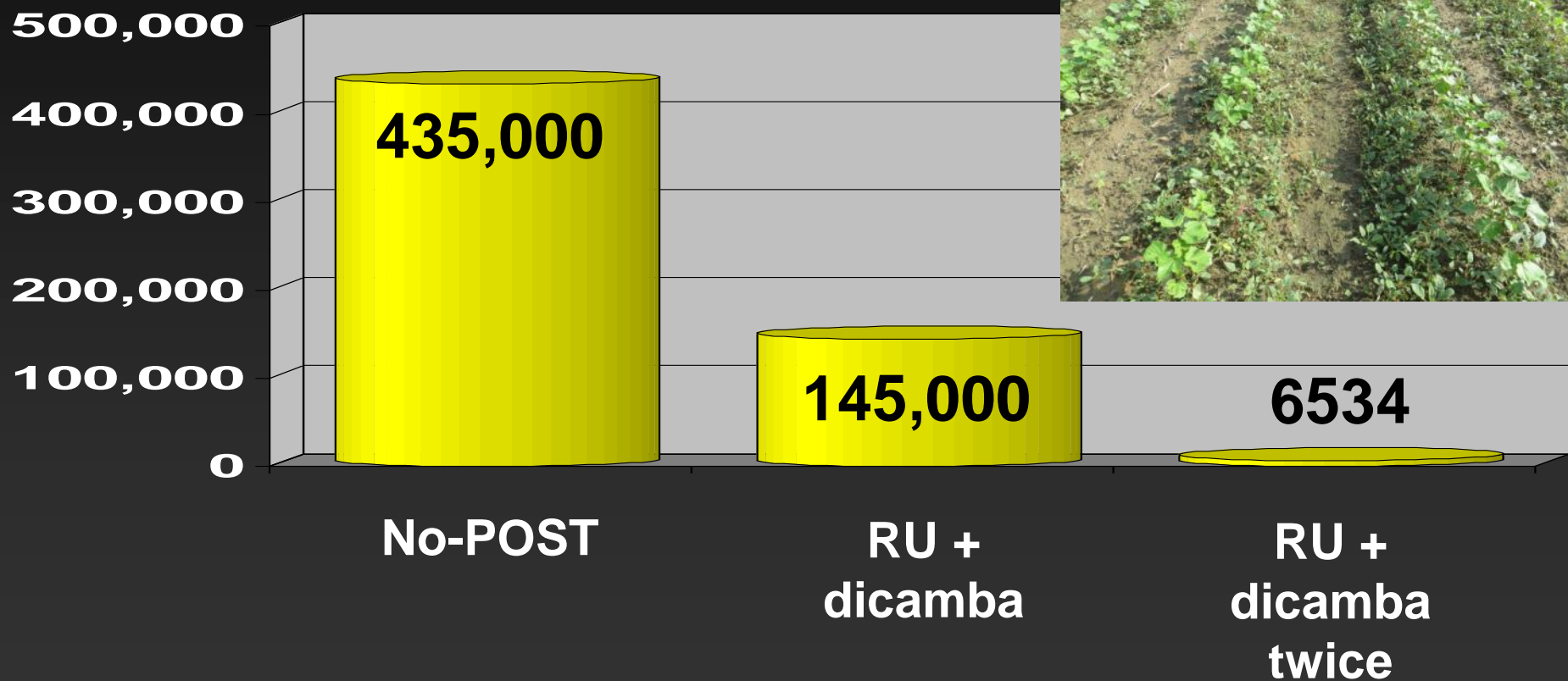


The non-treated control consisted of 1,464,000 per acre; LSD 21 K;

Auxin Systems

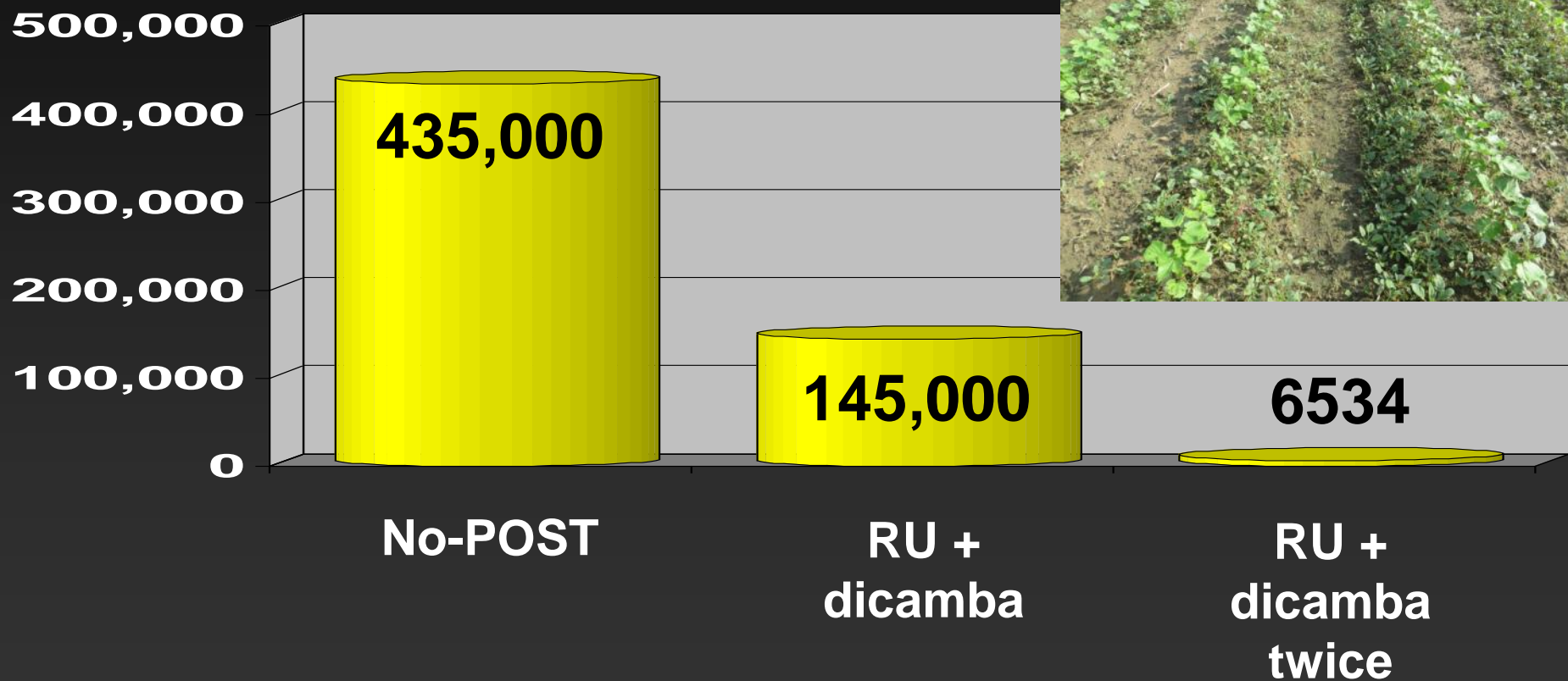
1. Clean at planting
2. PRE Required
3. Sequential POST's.....
4. Layby:

Number of Palmer Amaranth Per Acre as Influenced by Roundup + Dicamba



Roundup PowerMax 1 qt/A; dicamba 0.5 lb ai/A.

Number of Palmer amaranth Per Acre as Influenced by Roundup + Dicamba



A Liberty + Residual followed by RU + Dicamba is also very effective if a little more timely!!!

Specimen Label



FIFRA Section 24(c) Special Local Need (SLN) Label



Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268-1054 USA

Enlist One™

EPA Reg. No. 62719-695

EPA Section 24(c) Special Local Need Registration SLN No. LA17-0010

Expiration Date: This label is valid until December 31, 2019 or until otherwise amended, withdrawn, canceled, or suspended.

For control of annual and perennial weeds and use on Enlist™ corn, soybeans and cotton; use as a non-selective burndown; chemical fallow; and use as a preplant or preemergence or postemergence herbicide on listed crops, for control of emerged weeds only.

TANK MIXTURES:

1. numerous glufosinates
2. numerous glyphosates
3. Dual Mag
4. Warrant
5. Valor
6. Direx
7. Staple????

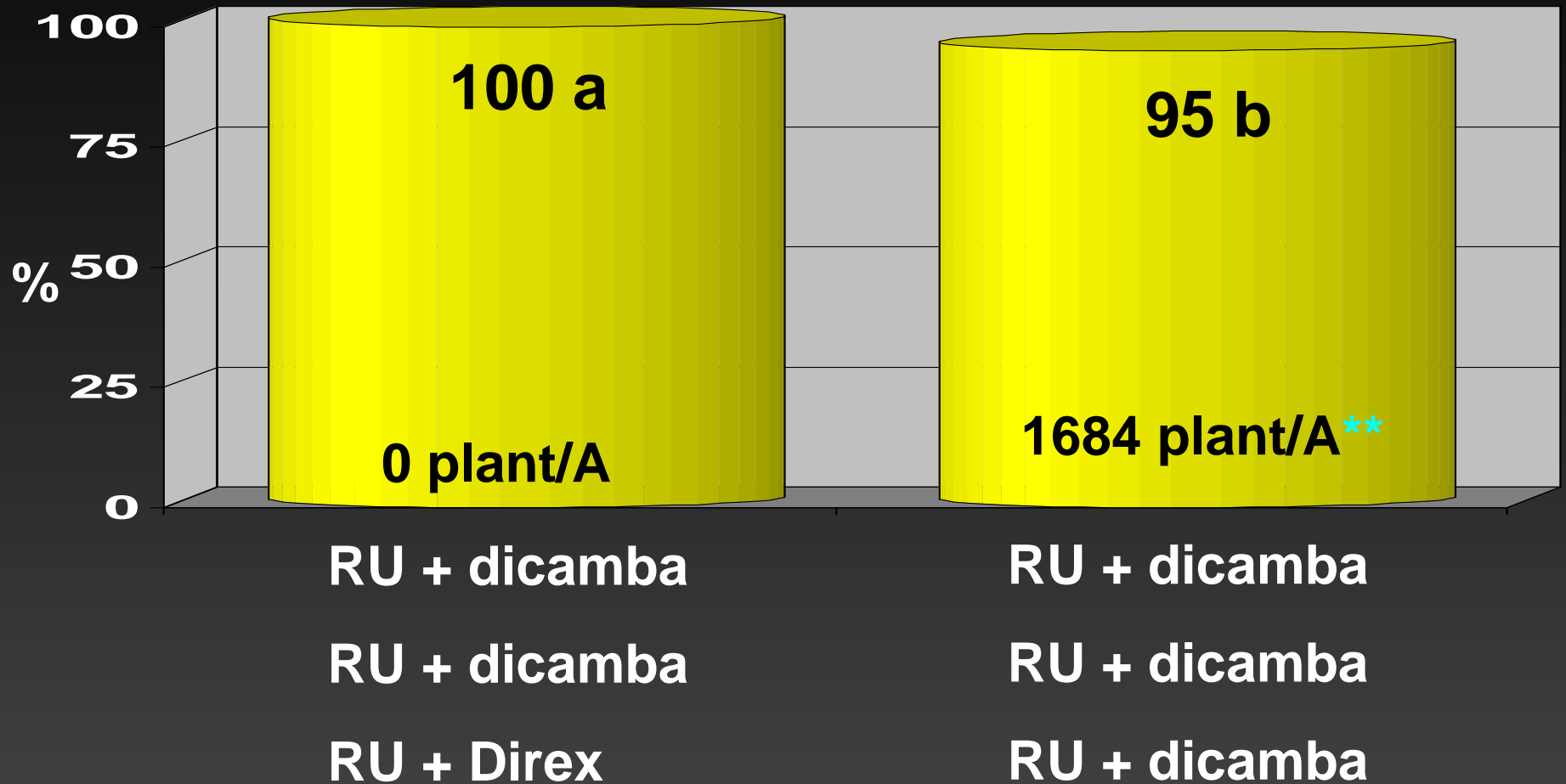
Layby..critical to FARM sustainability!!



For Palmer: Direx + MSMA; add Envoke or dicamba for MG.
If grasses: Roundup + Direx; add Envoke or dicamba for MG.

Overtop or Directed Layby? Year 1!

Palmer Control



RU + dicamba

RU + dicamba

RU + Direx

RU + dicamba

RU + dicamba

RU + dicamba

Warrant + Direx PRE; **No plants visible outside of the plot area; 363,000 plants per acre in control.

Year 2!



Large Acreage – Photo After Year 3!



Direx + Warrant PRE

RU + dicamba

RU + dicamba

RU + Direx

Direx + Warrant PRE

RU + dicamba

RU + dicamba

RU + dicamba



Dicamba – Engenia, FeXapan, XtendiMax

STEWARDSHIP



DICAMBA STEWARDSHIP

Label Changes – XtendiMax, Engenia, FeXapan

- 1. Restricted Use Pesticide**
- 2. Sunrise to Sunset**
- 3. Wind 3-10 mph**
- 4. Documentation**
- 5. Training**

STEWARDSHIP: Restricted Use Pesticide

New products: critical to manage volatility



XtendiMax™ with Vapor Grip
Technology™



The Chemical Company

Engenia™

Layby..critical to FARM sustainability!!



For Palmer: Direx + MSMA; add Envoke or dicamba for MG.
If grasses: Roundup + Direx; add Envoke or dicamba for MG.

DICMABA STEWARDSHIP: Sunrise to Sunset

Roundup + dicamba



5:00 AM



8:00 AM

DICMABA STEWARDSHIP: Sunrise to Sunset

MUST AVOID spraying into inversions!!



UGA's 15 Factors Influencing Success

Spray Tip

Spray Pressure

Sprayer Speed

Boom Height

Tank Cleanout

Drift Control Agent

Proper Formulation

Wind

Land Terrain

Temp/Humidity

Size
of Crop

Buffers

Herbicide Footprint/
Surrounding crops

Volatility

Residue Tolerance

DICAMBA STEWARDSHIP: **Documentation**

1. Full name
2. Certification number
3. Product name
4. EPA registration number
5. Total amount applied
6. Application, date
7. Location
8. Crop treated
9. Area treated
10. Training requirement
11. Application method
12. **Sensitive crop awareness**
13. Receipt of purchase
14. Product label
15. System cleanout
16. Tank Mix products
17. Start and finish times
18. Nozzle selection
19. Air temp
20. Wind speed and direction

Standardized form approved by GDA provided

DICAMBA STEWARDSHIP: **Training**

Applicators must be trained prior to spraying Engenia, XtendiMax, or FeXapan.



DICAMBA STEWARDSHIP: **Training**

Applicators In Georgia: two options

1. **UPW Classroom Training.....card.**
2. **UPW Agent One-On-One Training ..certificate.**

DICAMBA STEWARDSHIP: **Training**

Applicators In Georgia: two options

1. **UPW Classroom Training.....card.**
2. **UPW Agent One-On-One Training ..certificate.**

Person in charge of application in Georgia

1. **UPW Classroom Training.....card.**

UPW Classroom Training

Bulloch Co.: March 19
Burke Co.: March 19
Mitchell Co.: March 21
Peach Co.: March 23
Calhoun Co.: March 28
Tift Co.: April 4

Laminated Handouts

Cotton

Cole Crop

Mulch fumigation

Sensitive Crops

Squash

Sweet potato

Watermelon

Commonly Used PPO's

IMPORTANT NOTICE

U.S. LABEL - It is a violation of United States law to use this product in the United States in a manner inconsistent with its United States labeling.

GROUP 14 HERBICIDE

 **Reflex**[®]
Herbicide

GROUP

14

HERBICIDE



VALOR[®]
HERBICIDE **SX**

ET[®]

HERBICIDE/DEFOLIANT

GROUP 14 HERBICIDE

PULL HERE TO OPEN

 **Flexstar**[®]

Aim[®] **EC**
HERBICIDE



Dow AgroSciences

Goal[®] **2XL**

HERBICIDE

GROUP 14 HERBICIDE

Blazer[®]

POST-EMERGENCE HERBICIDE FOR
SOYBEANS

COBRA[®]
HERBICIDE

SPARTAN[®]

Fill out survey if auxin technology is important to you!



THE UNIVERSITY OF GEORGIA
**COOPERATIVE
EXTENSION**

Stanley Culpepper
UGA Extension
Tifton, GA