2011 Beltwide: New Products/Technologies/Concerns

WEEDS

2011 Beltwide Consultants Conference

New Products/Technologies

1. Glytol + Liberty Link Cotton
2. 2,4-D Resistant Cotton (2015?)
3. Dicamba Resistant Cotton (2015?)

Glytol + Liberty Link Cotton

1. Exceptional tolerance to Ignite and Roundup
2. Systems approach including residuals and other chemistry will offer excellent control of most weeds.

Ignite vs. Roundup

Weed	Ignite	Roundup
Eveningprimrose	+	-
Morningglory	+	-
Volunteer peanut	+	-
Goosegrass	-	+
Large grasses	-	+
Perennial grasses	-	+
Nutsedge	-	+
Tropical spiderwort	-	-
GR Ragweed	+	-
GR Horseweed	-/+	-
GR Palmer amaranth	-/+	-

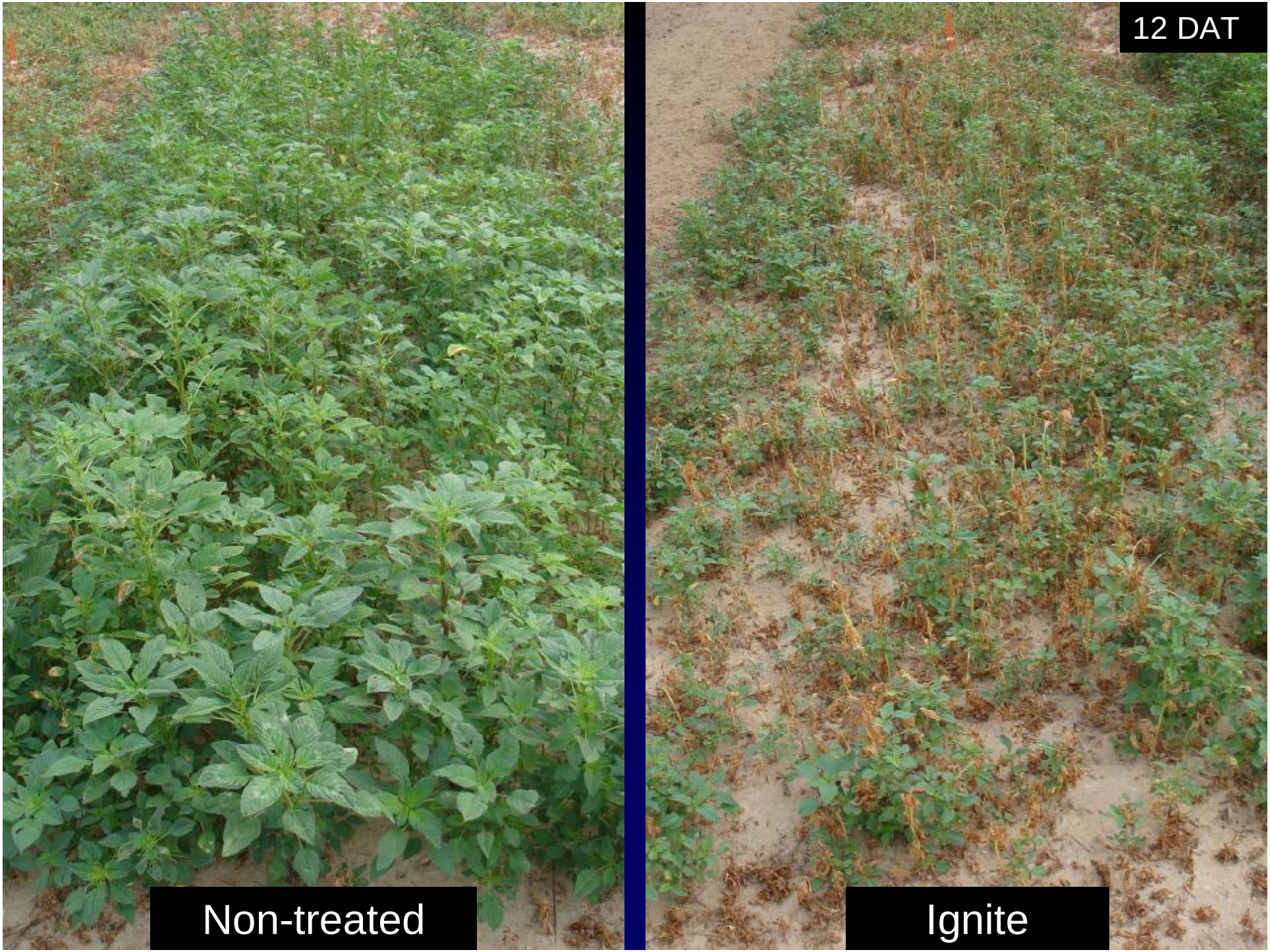
Prowl H20 PRE

Glyfos X-tra 48 oz @ 2 lf cotton/ 3” AMAPA

Glyfos X-tra 48 oz @ 7 lf cotton/ 12” AMAPA

Direx + MSMA @ 15 lf cotton/ 18” AMAPA

Prowl H20 PRE
Ignite 33 oz @ 2 lf cotton/3” AMAPA
Glyfos X-tra 48 oz @ 7 lf cotton/ 0” AMAPA
Direx + MSMA @ 15 lf cotton/3” AMAPA


12 DAT
Non-treated
Ignite

Palmer response to Ignite

WATER VOLUME AND NOZZLE TYPE IS CRITICAL

Do not apply within an hour of sunrise

MUST KILL IT WITH THE FIRST APPLICATION

Application Timing is Critical in LL Cotton

3” Palmer: 29 to 32 oz/A = >98% control

3-4”: 36 oz/A = 88 to 100% control

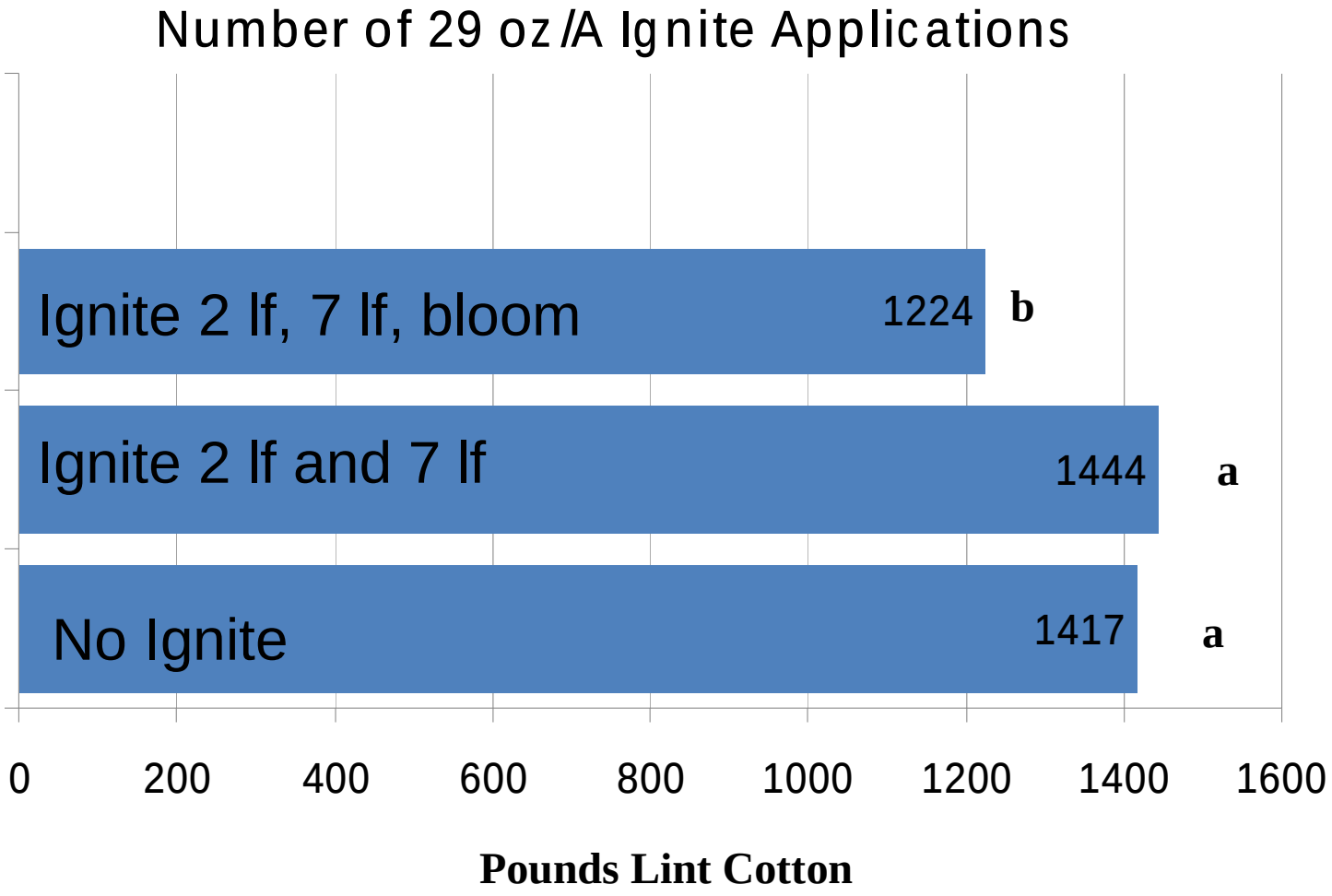
4-6” Palmer: 43 oz/A = 70 to 100% control

>6” Palmer: 43 oz and get the hoes ready

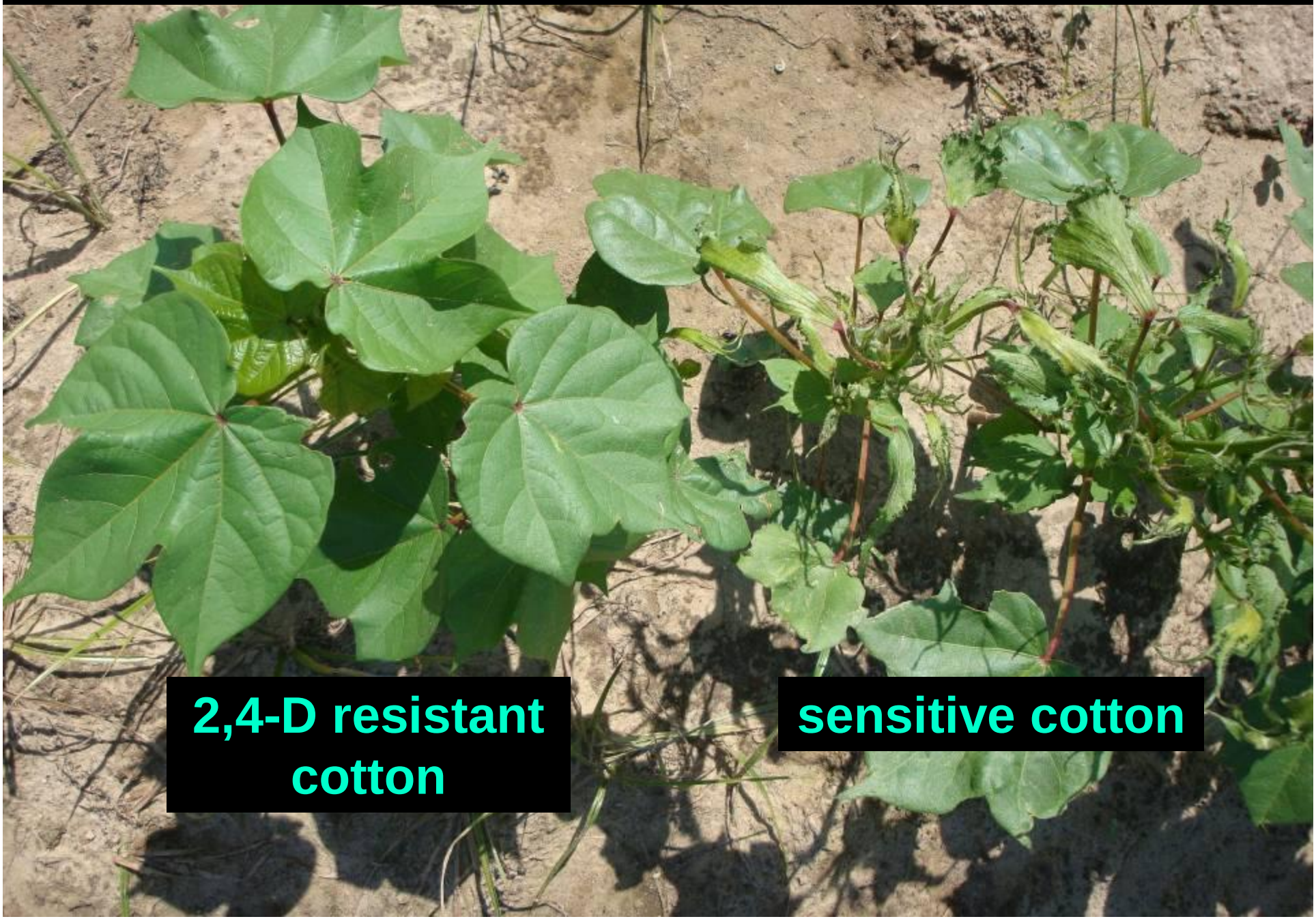
Phytogen Widestrike Cotton

1. Confers tolerance to Ignite
2. Tolerance not complete; **injury will occur and yield loss can occur if you don't know what you are doing.**
3. According to EPA, Ignite can be applied to widestrike cotton.
4. However, grower is liable as neither Bayer nor Dow recommend or warrant the use of Ignite on Widestrike cotton

375 WideStrike Cotton Tolerance to Multiple Applications of Ignite



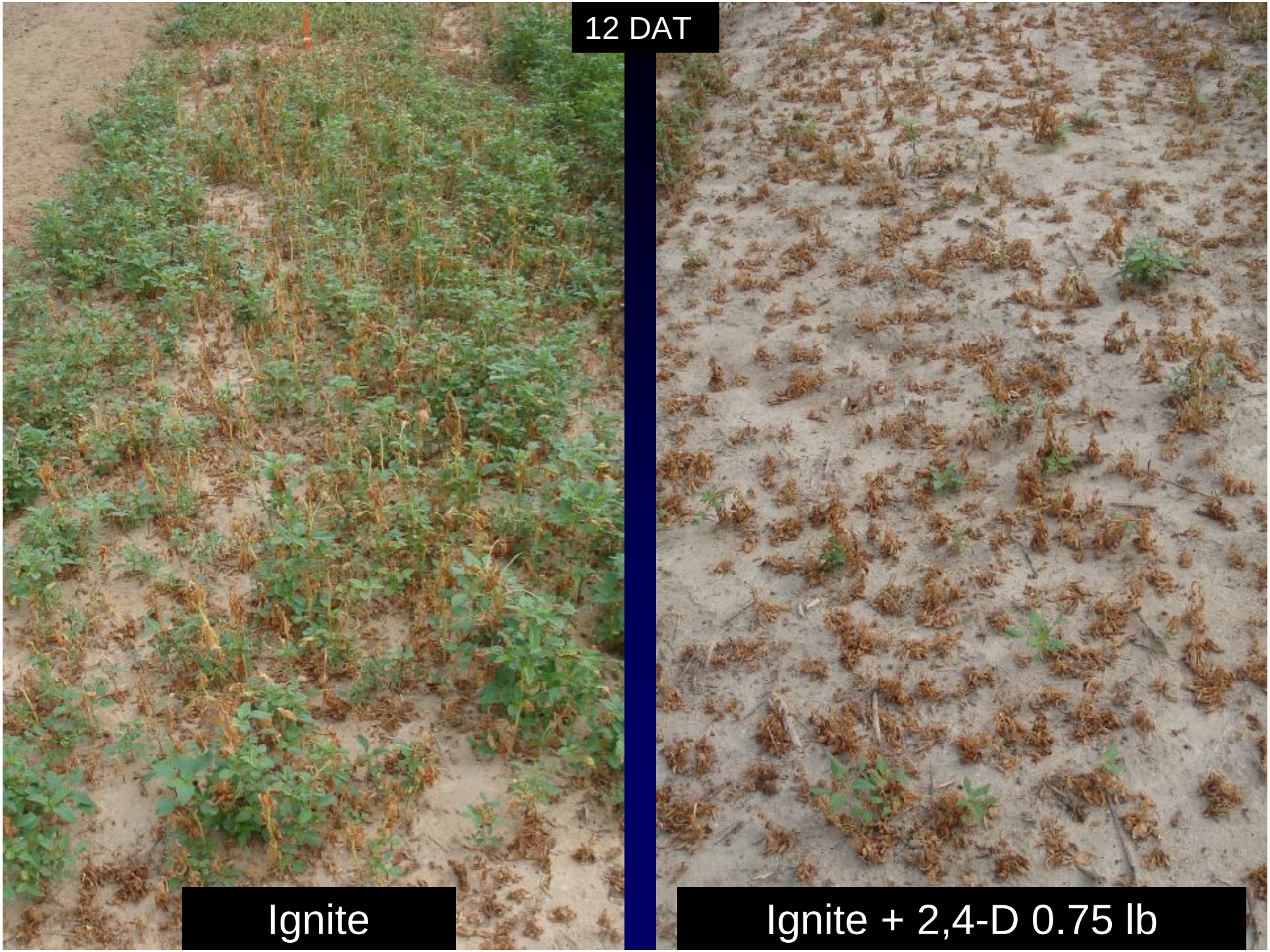
2, 4-D Resistant Cotton

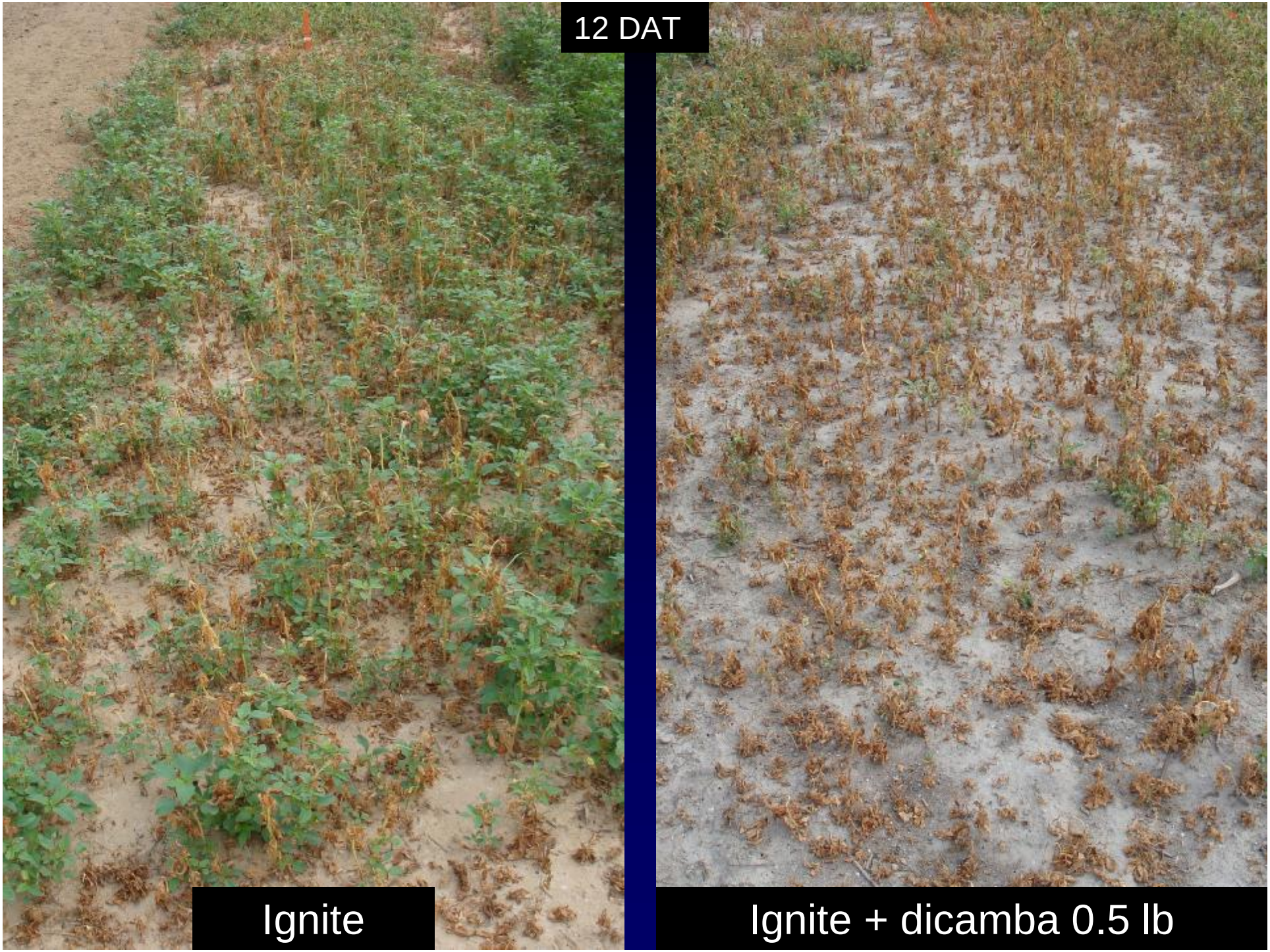


Will There Be Value in 2,4-D- or Dicamba-Resistant Traits for Cotton Growers?

1. Tool for managing GR ragweed, horseweed, Palmer, morningglory, perennial weeds, winter annual weeds
2. No preplant interval for burndown
3. A new mode of action for in-crop control
4. Applications overtop of cotton
5. Price of herbicides are currently economical
6. Option to rotate with Roundup for resistance mgmt

12 DAT
24 DAT
1.5 pt of 2,4-D


12 DAT
Ignite
Ignite + 2,4-D 0.75 lb

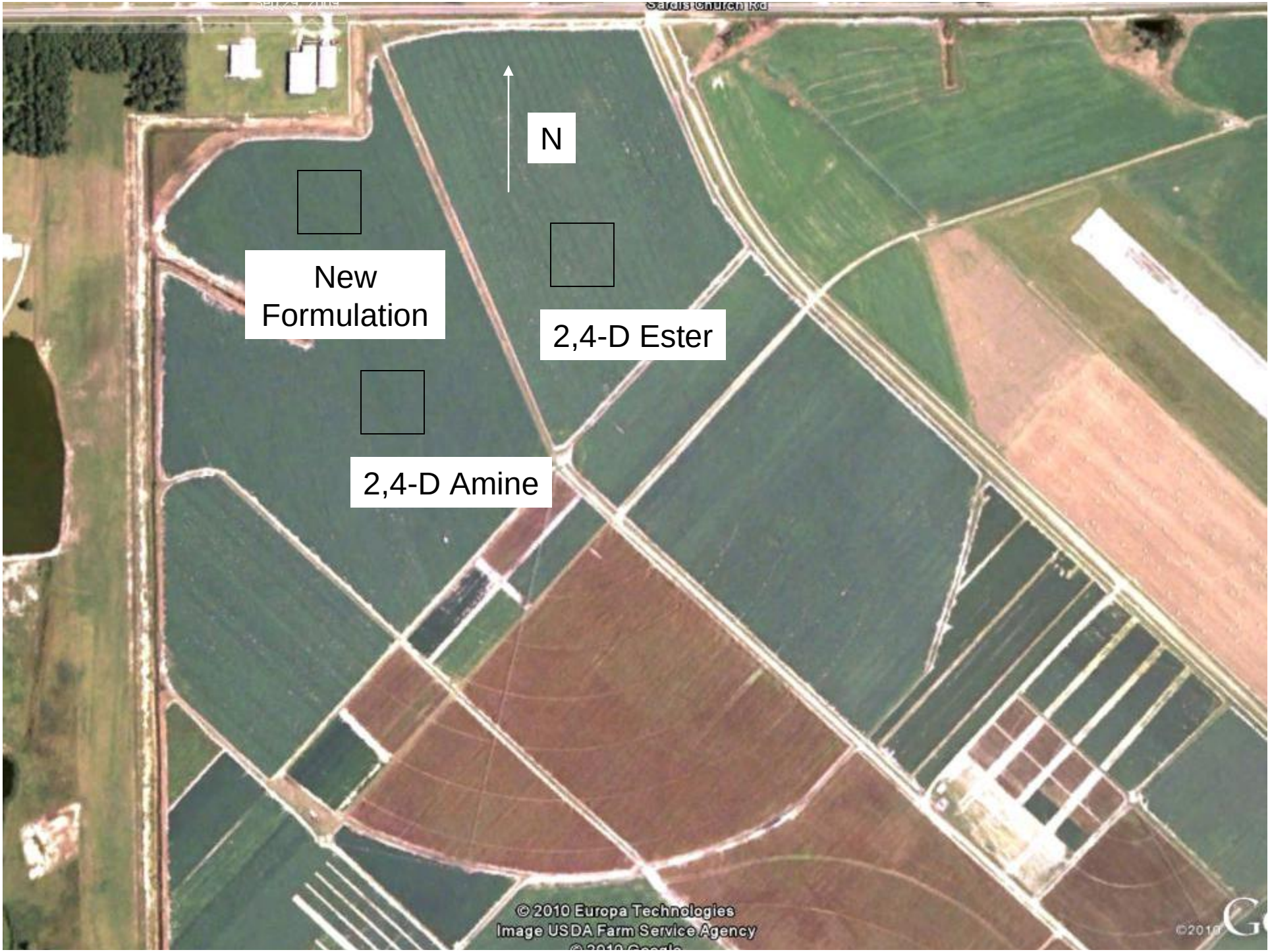

12 DAT
Ignite
Ignite + dicamba 0.5 lb

Additional Concerns

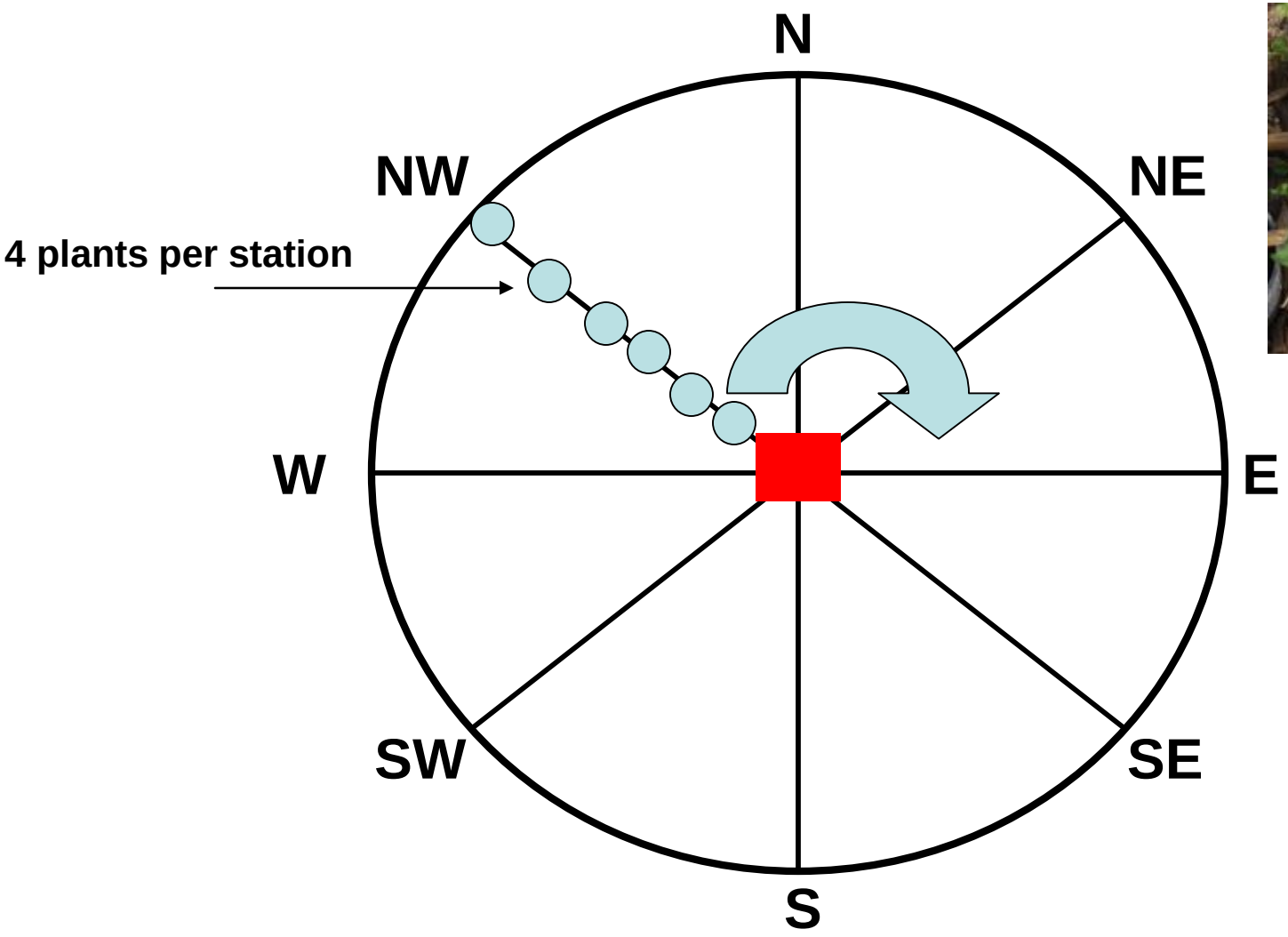
- Loss of currently used herbicides?
  - MSMA
  - Cotoran
- Sustainability of Ignite?
- Off target movement of 2,4-D and dicamba

Are You Comfortable Making 2,4-D or Dicamba In-Crop Weed Management Recommendations TODAY?

1. Fair
2. No
3. No
4. No
5. Comfortable with dicamba, not with 2,4-D
6. No
7. Absolutely not
8. No
9. Yes, but only in some locations
10. No way, not today

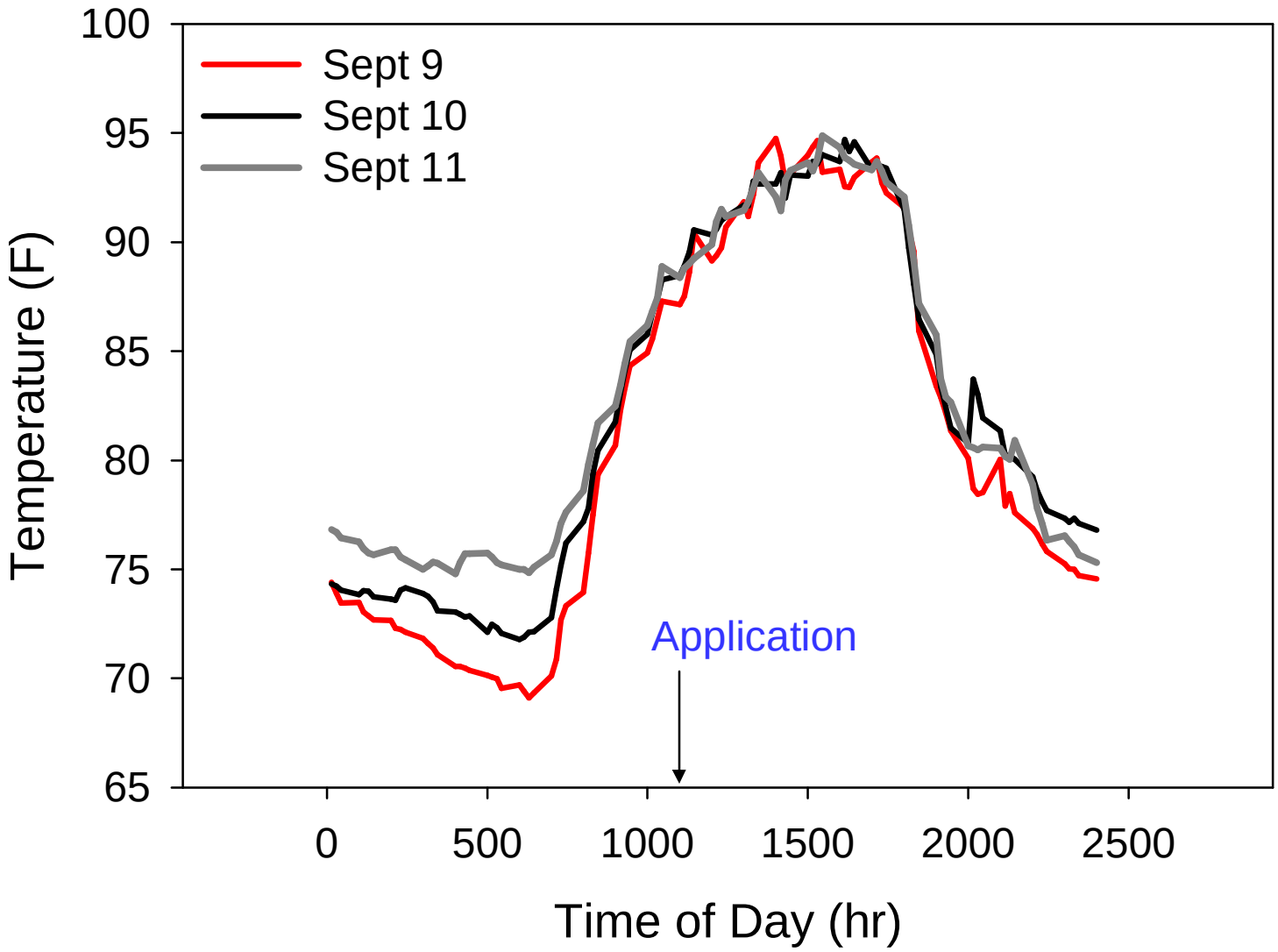

N
New Formulation
2,4-D Ester
2,4-D Amine
© 2010 Europa Technologies
Image USDA Farm Service Agency

Potted cotton plants placed in all directions @ 5, 10, 20, 40, 80 and 160 ft

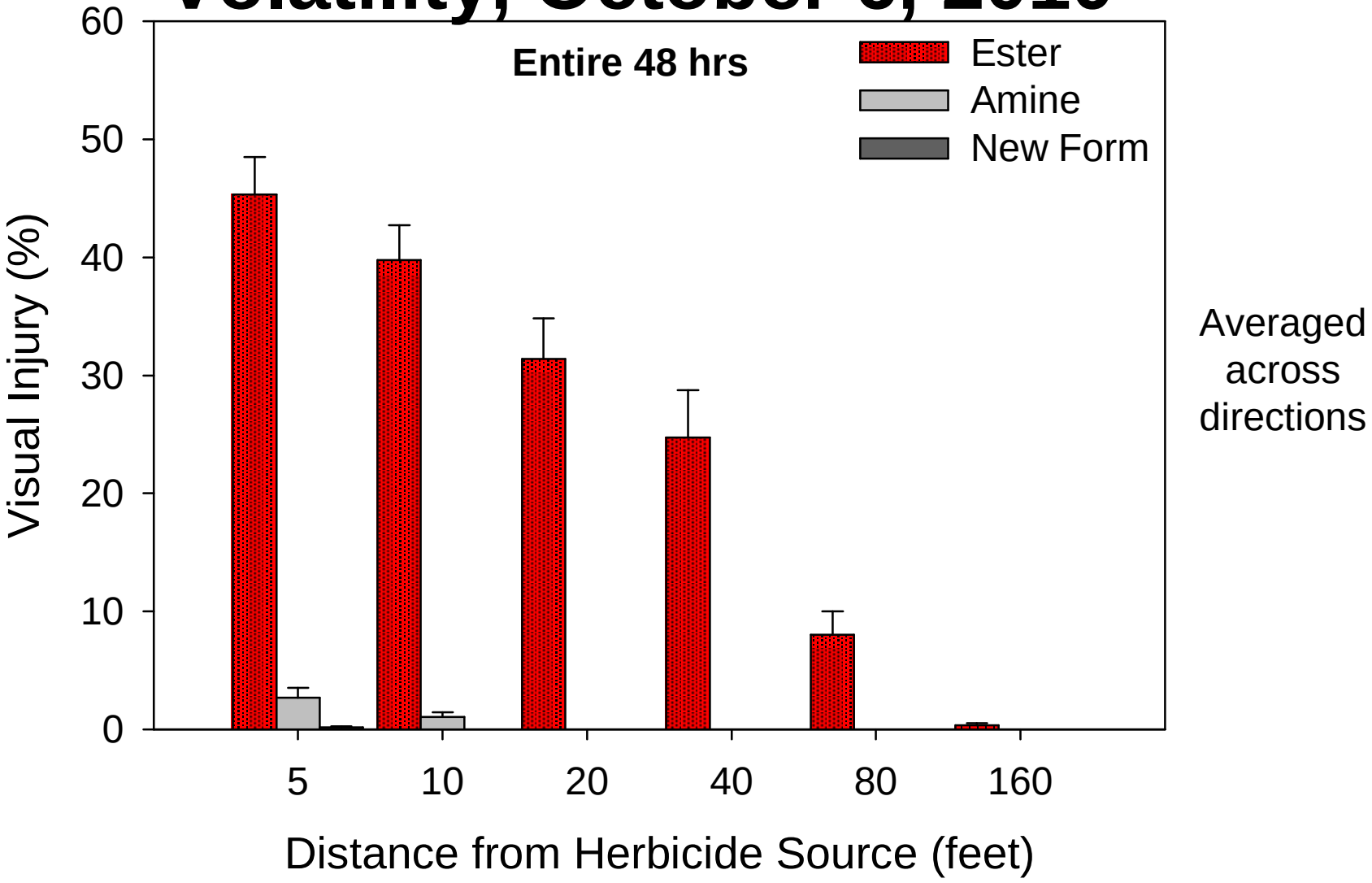


Volatility distance – (plants placed in field *after* drift pots were removed)

Temperature (F) Sept 9-11



Visual Injury 27 DAA from 2,4-D Volatility, October 6, 2010

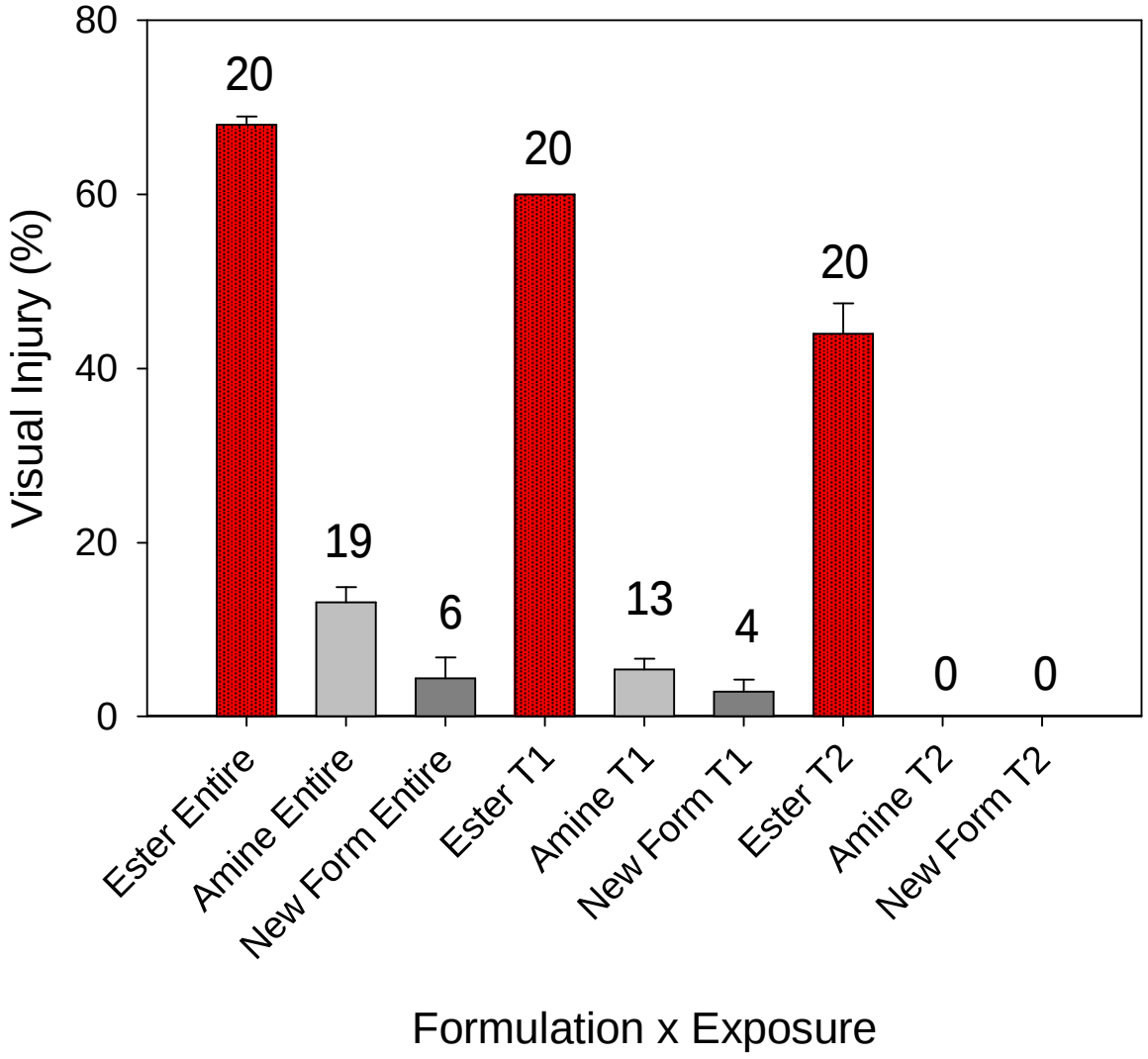


Error bar is 1 Std error of mean

Volatility Injury to Cotton: Tunnel/Dome Data

John Richburg
2010 Project Review
November, 2010

Visual Injury 27 DAA from 2,4-D Volatility under Tunnels (October 6, 2010)



Entire = 48 hrs

T1 = 1st 24 hrs

T2 = 2nd 24 hrs

Comments?