

Sugarcane Aphid: Insecticides and Best Management Practices

**Sugarcane Aphid Update
Weslaco, TX
April 12, 2016**

**Robert Bowling, Michael Brewer, John Gordy, and
Stephen Biles**

OUTLINE:

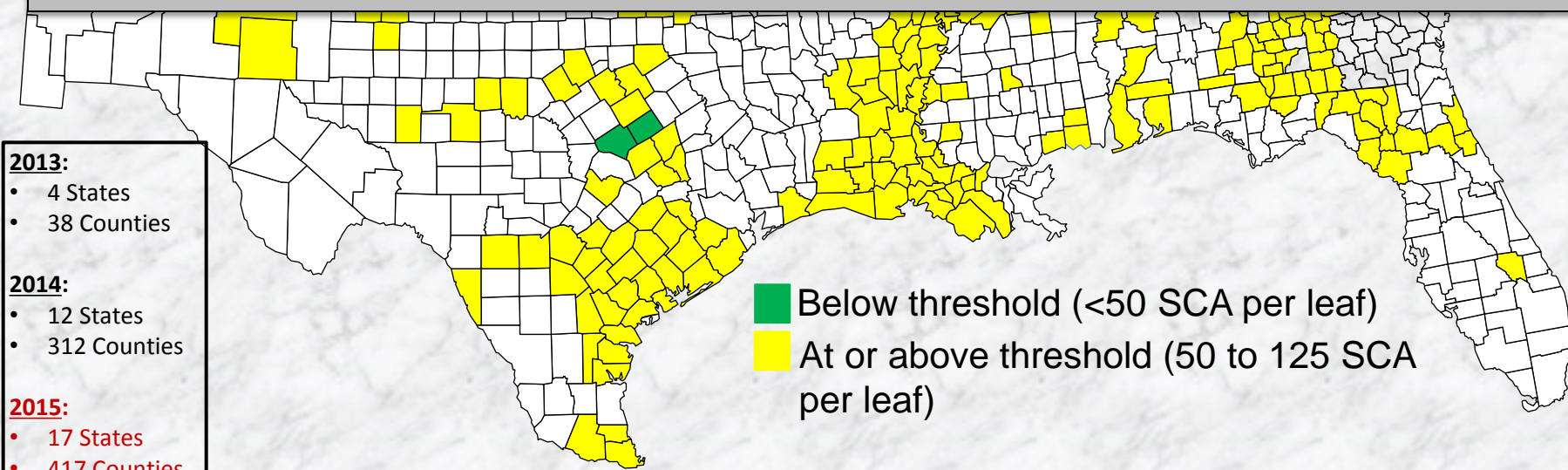
- Occurrence
- Adjuvants
- Insecticide Efficacy
- BMP
 - Thresholds
 - Decision Making Tool



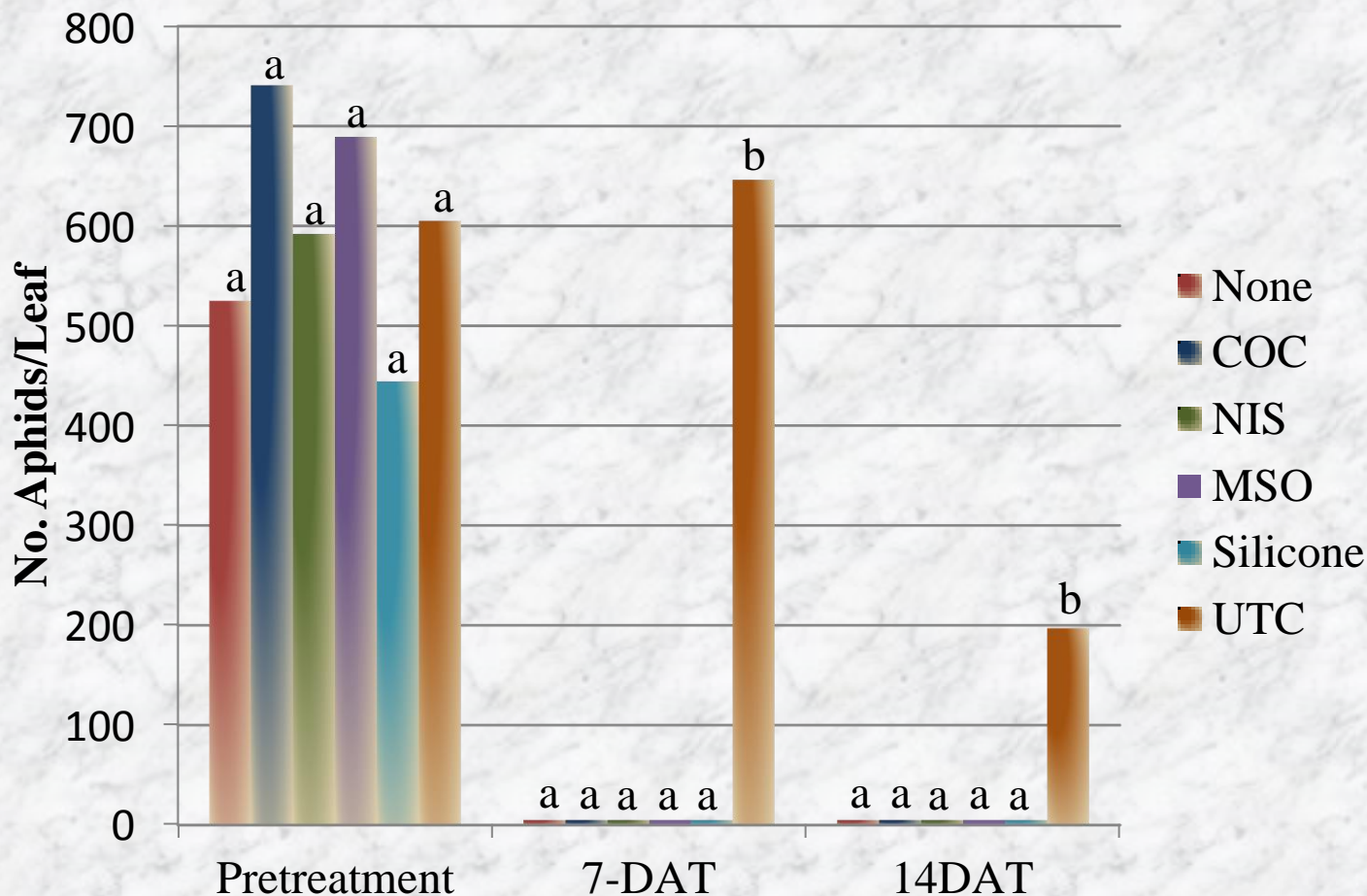
2015 Sugarcane Aphid, *Melanaphis sacchari*, Occurrence on Sorghum and Johnsongrass September 30, 2015

At Risk in the U.S.A.:

- 97% (7,405,000 acres) of the sorghum acres
- 98% (560,253,000 bushels) of the total sorghum production

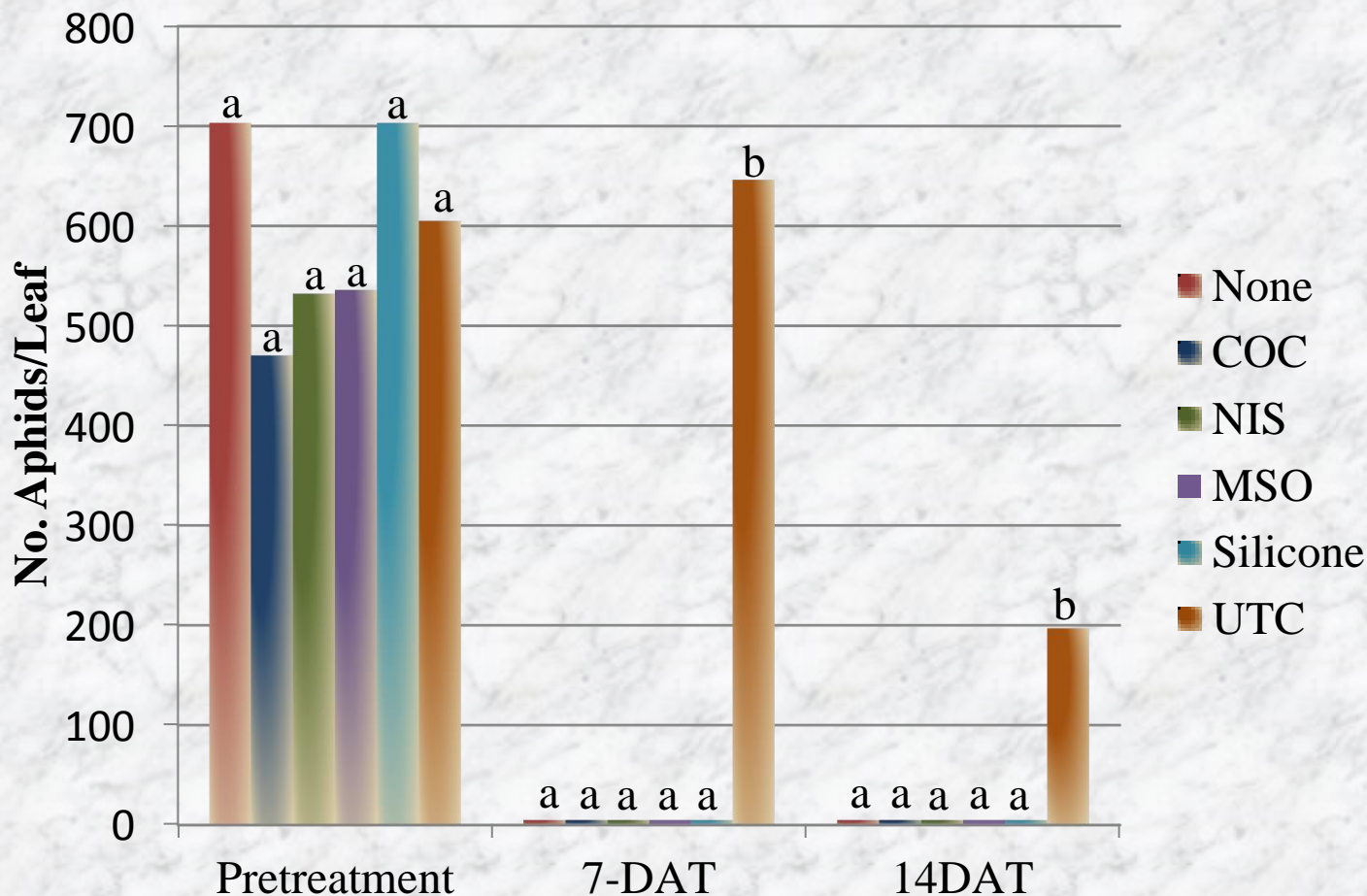


Sugarcane Aphid Adjuvant Trial - TRANSFORM Sinton, Texas 2015 Cooperator: Charles Ring



Transform @ 0.5 oz/ac
13 GPA

Sugarcane Aphid Adjuvant Trial - SIVANTO Sinton, Texas 2015 Cooperator: Charles Ring



Sivanto @ 3.0 oz/ac
13 GPA

SCA INJURY TO SORGHUM HEAD ADJUVANT STUDY – SINTON, TX

**56% Yield
Reduction**

**Aphids in
Transform
treatment
controlled. No
injury to head.**



Transform Treatment



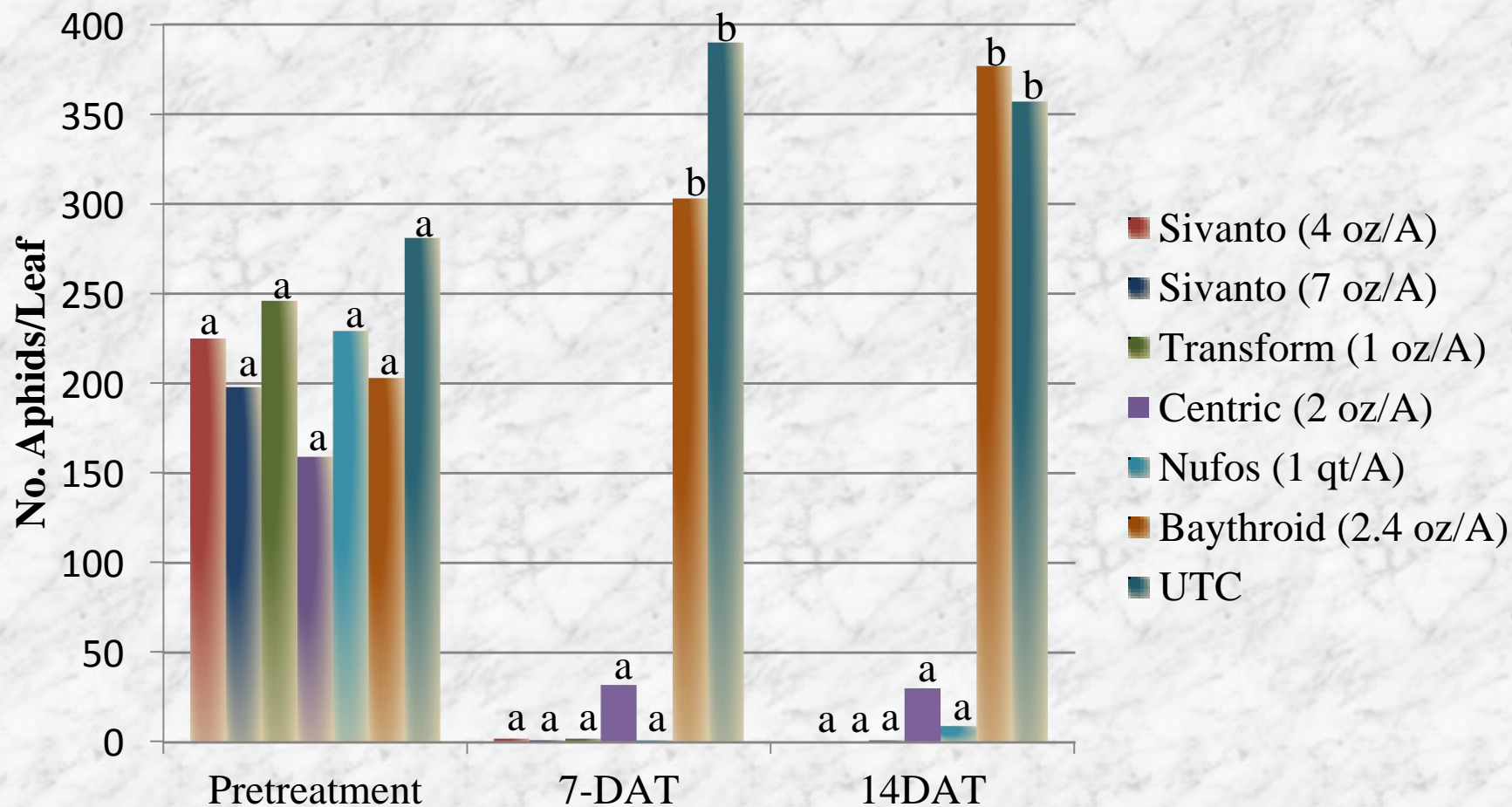
Untreated Check

**Heads 50%
pollen shed
when test
initiated.
Aphids in
head when test
initiated.
Honeydew
interfered
with
pollination.
Note heavy
sooty mold on
head.**

Insecticide Efficacy



Sugarcane Aphid Insecticide Efficacy Trial Sinton, Texas 2015 Cooperator: Charles Ring

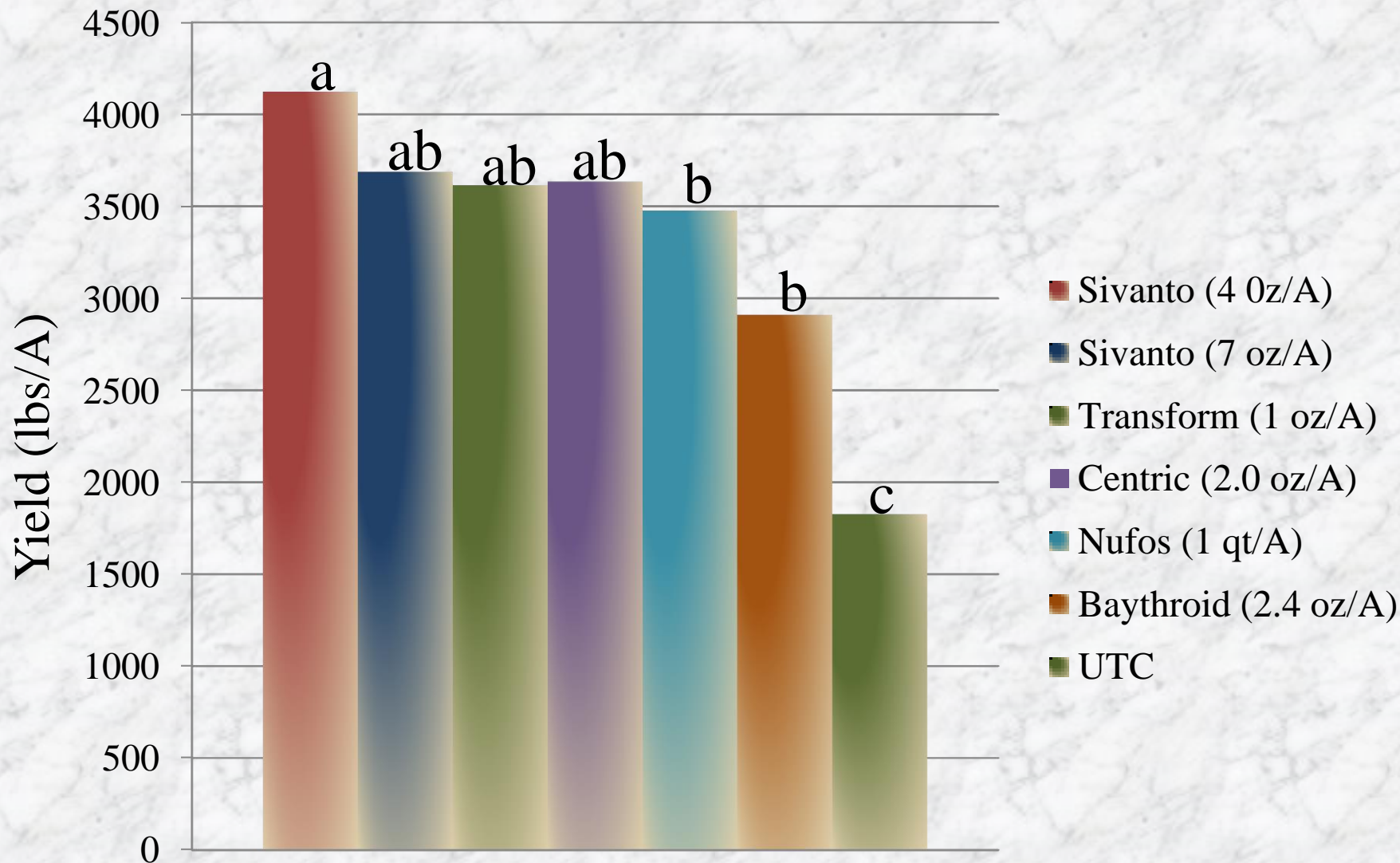


Sugarcane Aphid Insecticide Efficacy Trial

Harvest - Yield

Sinton, Texas 2015

Cooperator: Charles Ring



Don't become complacent in 2016!

Transform Treatment



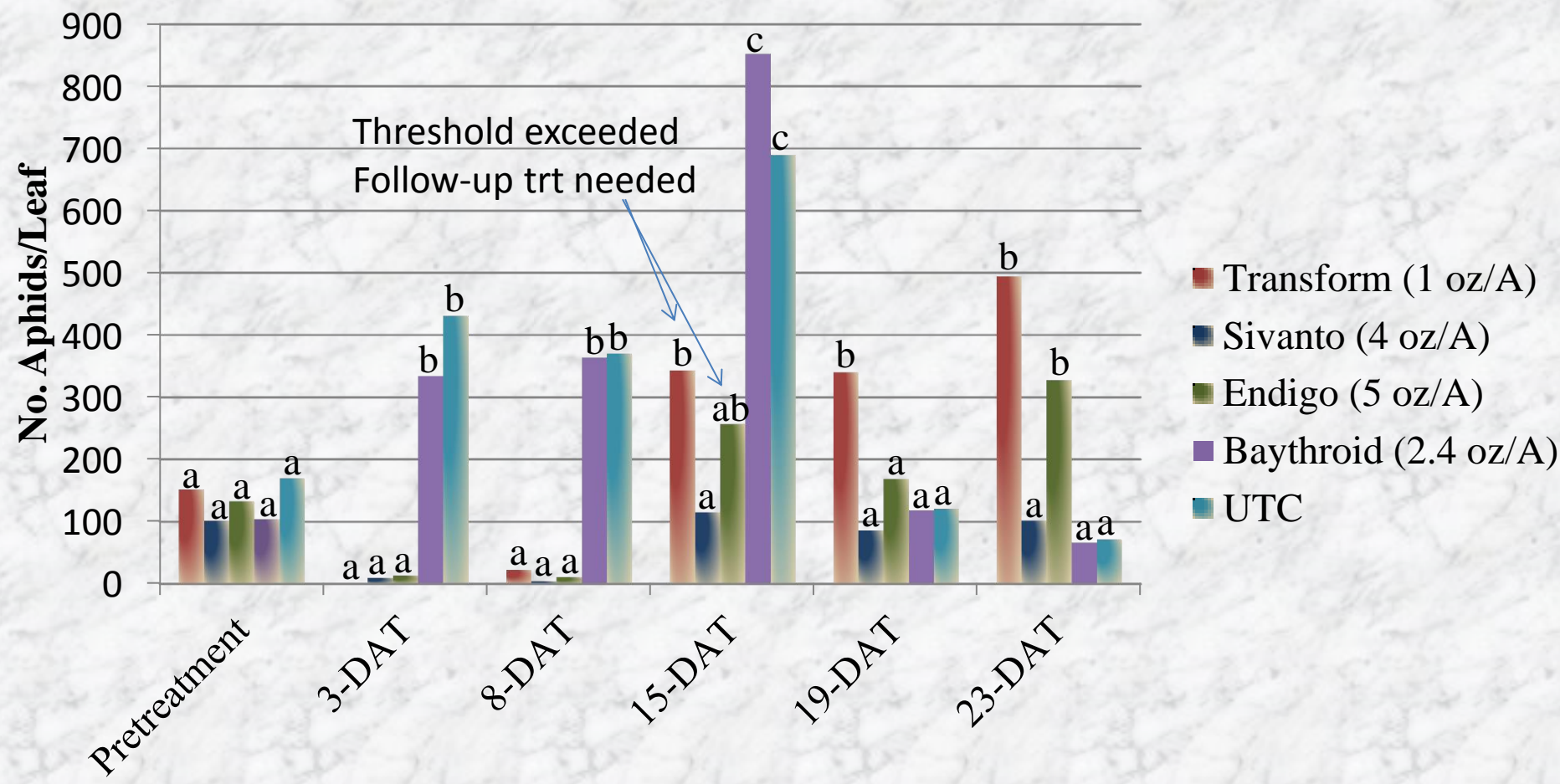
No apparent aphid injury

Untreated Check



**Severe plant injury caused by SCA
Delayed maturity**

Sugarcane Aphid Insecticide Efficacy Trial
Rosenberg, Texas 2015
Average No. of Aphids per Leaf
Cooperator: Mark Wleczyk



Sugarcane Aphid Insecticide Efficacy Trial

Rosenberg, Texas 2015

Cooperator: Mark Wleczyk



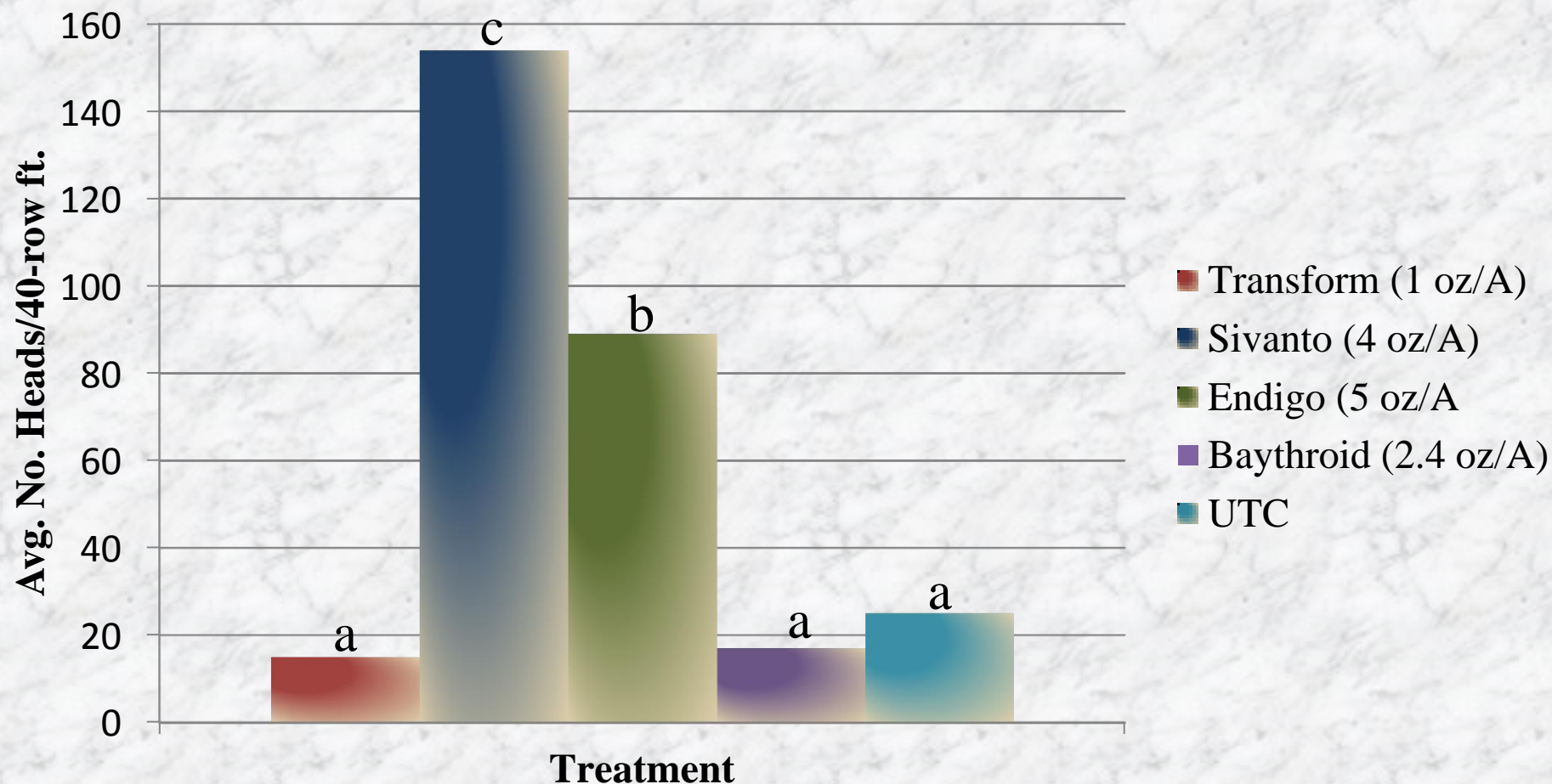
UTC – no
winged
aphids –
mix of
instars

Sivanto –
Winged
aphids –
first instar
SCA

Sugarcane Aphid Insecticide Efficacy Trial

Rosenberg, Texas 2015

Cooperator: Mark Wleczyk



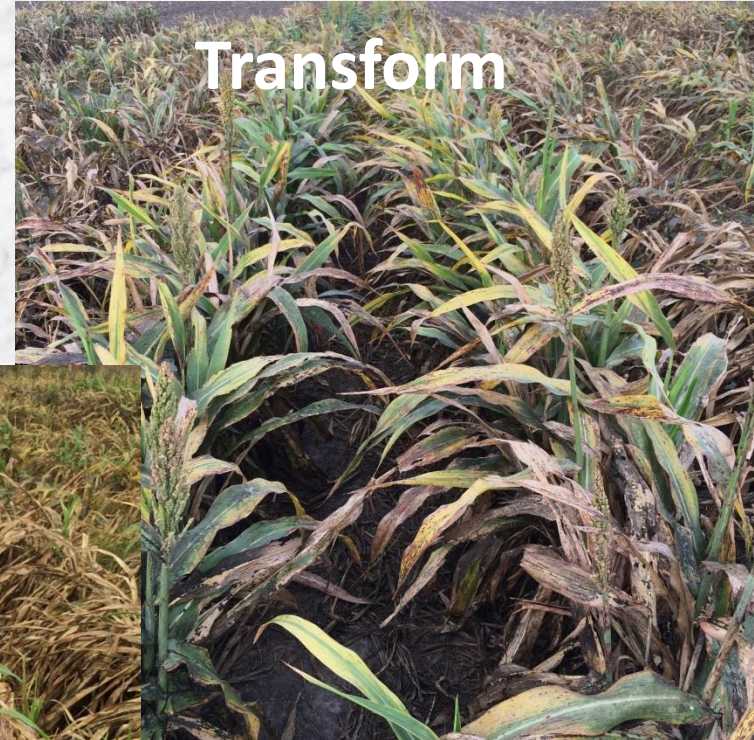
43 Days Post Treatment with a single application of each insecticide!

Sivanto



SCA Insecticide
Efficacy Trial
Rosenberg TX
October 20, 2015
43 DPT!
Mark Wleczyk

Transform



UTC



Endigo



Baythroid



Transform: Section 18 Granted April 11, 2016

- Label is the same as previous 2 years with one exception
 - **≤ 3 days prior to bloom until seed set**
- Time frame?
 - Bloom occurs 5 to 7 days after panicle exertion
 - Lasts 5 to 7 days
 - When is seed set?
 - Seed is set ~10 days after flowering (kernels reach their maximum size)
 - Window is ~2 to 3 weeks

Best Management Practices:

Sugarcane Aphid Threshold

➤ 50 to 125 Aphids per leaf

- Detection – winged and first instar upper leaves
 - Not colonized
 - Weekly scouting
- Colonization – Colonies on underside of lower leaves
 - Honeydew present
 - Twice weekly scouting recommended

Thanks for you attention!



Questions?