

Emerging Technologies
LACA 2014

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The Market-Leading Seed Treatment Just Got Better

Introducing VIBRANCE™ seed treatment
fungicide to the soybean market



VIBRANCE Offers Soybean Rooting Power



- VIBRANCE™ seed treatment fungicide was created specifically to provide soybean farmers with a unique advantage from the start through its Rooting Power™ capabilities
- By delivering **enhanced disease protection with best-in-class Rhizoctonia activity**, VIBRANCE creates healthier, more robust root systems that enable your soybeans to maximize yield performance and reach their full genetic potential
 - Effective on pathogenic *Rhizoctonia* groups that affect soybean establishment

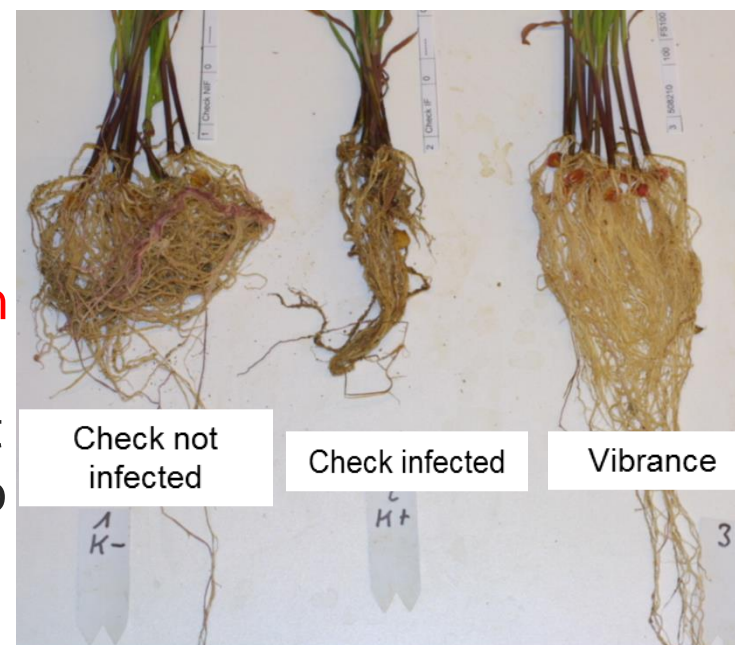


Photo courtesy of R. Zeun, Stein

Example of VIBRANCE Rooting Power capabilities on wheat

Classification: PUBLIC

CruiserMaxx Beans with VIBRANCE Performance



Research Trial at Univ. of IL



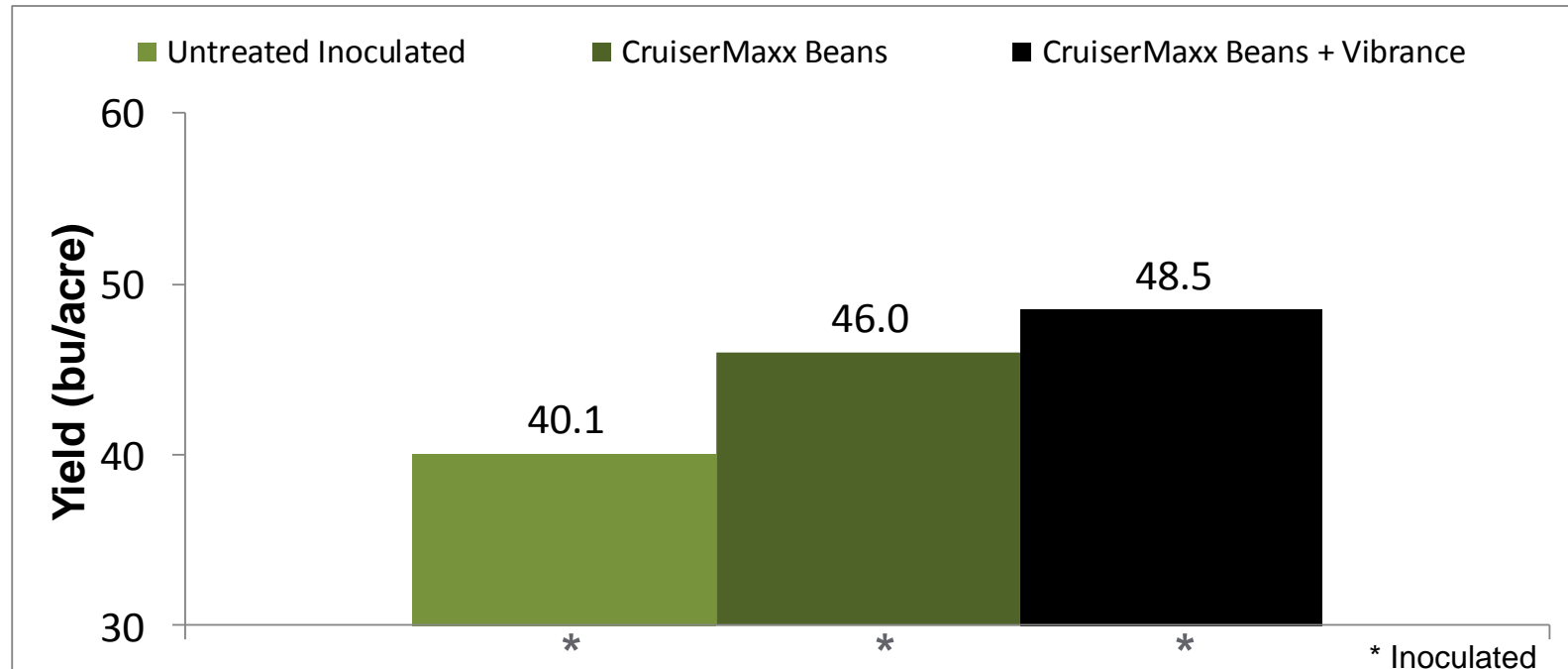
CruiserMaxx Beans



CruiserMaxx Beans with VIBRANCE

CruiserMaxx Beans with VIBRANCE Performance

2011 University testing across 9 environments in a high disease environment (TS5051A3-2011)



- **What is it?**
 - Trinexapac-ethyl
- **How it works:**
 - Blocks synthesis of gibberellic acid which is responsible for cell elongation.
- **Result:**
 - Cells keep growing but each stem cell is shorter with thicker cell walls.
- **Important!**
 - Photosynthesis continues at the same rate.

Stem Thickness



Palisade 1EC

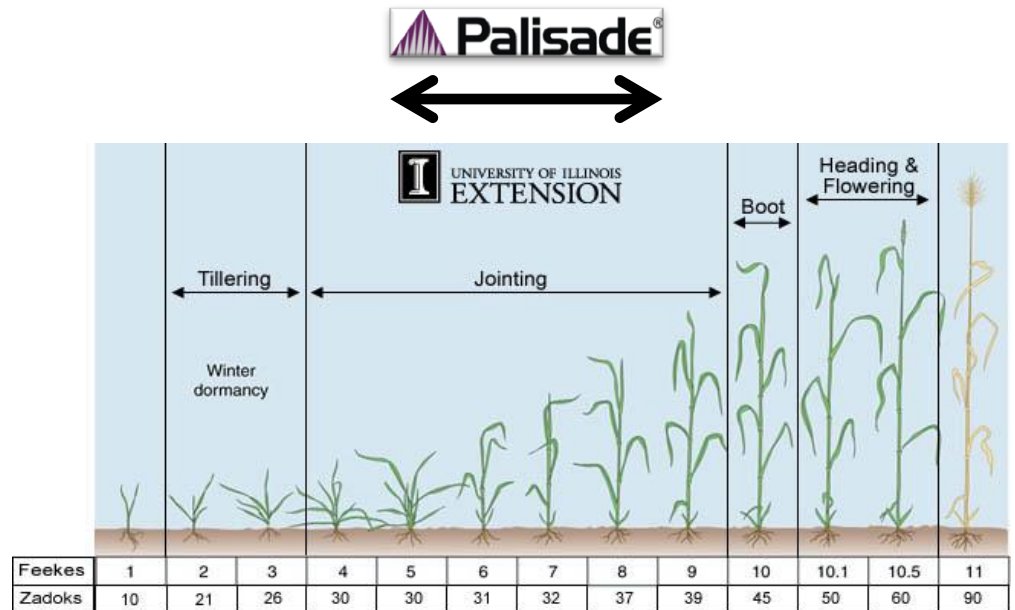
Untreated



- **Rate: 10-14 fl oz/A**
 - 10 oz/A will be standard rate
- **Do I need an adjuvant: No**
 - The addition of 0.25% of an 80/20 NIS is ok.

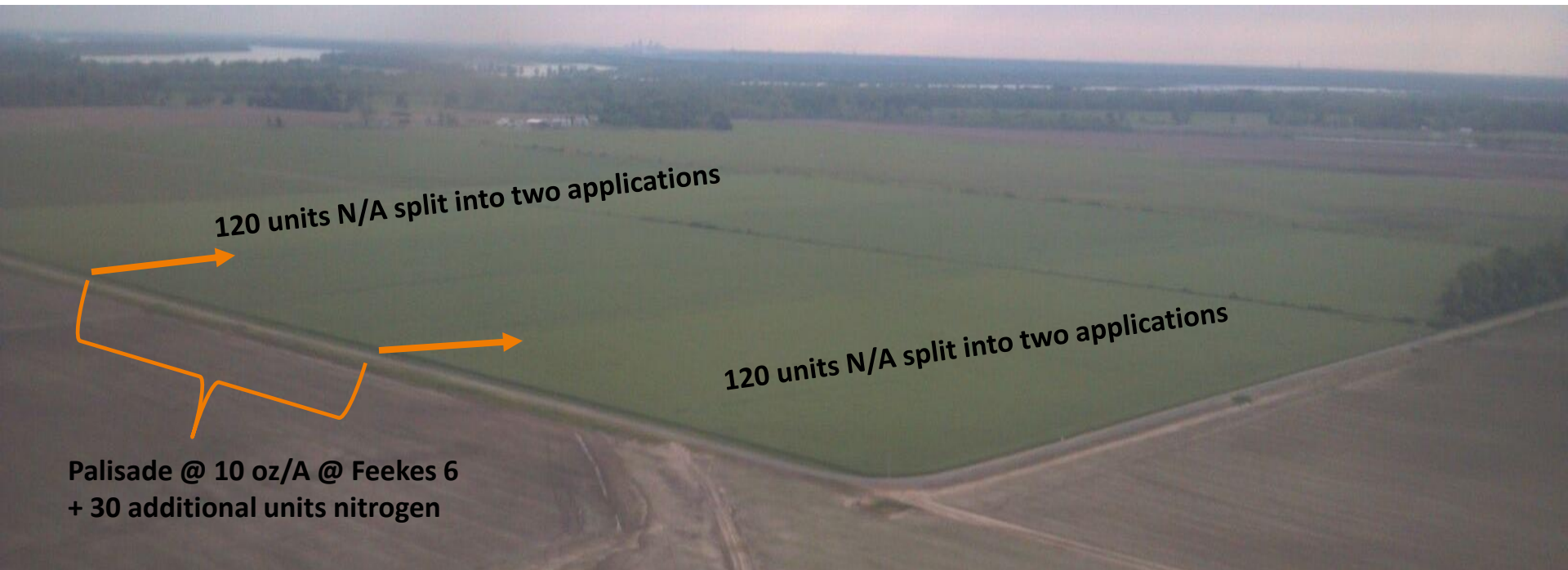
- **Is it compatible with other pesticides:**
 - Can be applied with Axial, Quilt Xcel, and/or Karate Zeon.

- **Timing of application:**
 - Feekes GS 5 (leaf sheath erect) to GS 8 (ligule of flag leaf visible). See diagram.



Aerial view of Palisade demo plot in Tunica county, MS

- 120 units N/A applied to untreated portions of field and 150 units applied to center block
- Palisade @ 10 oz/A applied to center block of field.



Benefits of Palisade

- Reduced lodging (shorter plant, thicker stem)
- Higher yields, with higher N inputs
- Greater net returns



Palisade @ 10 oz/A

- 3% lodging
- 97 bu/A yield

No Palisade

- 35% lodging
- 89 bu/A yield

\$30/A Net Return!!!!

- Contains Quadris (azoxystrobin) + Inspire (difenoconazole)
- Use rate: Soybeans 8-14 oz.
- Quadris Top at 8.0 oz. = 6.4 oz. Quadris + 4.0 oz. Inspire
- Labeled Crops: soybeans
- Strengths: Two modes of action
 - Difenconazole is good on late-season cercospora and Frogeye Leaf Spot.



Purple Seed Stain

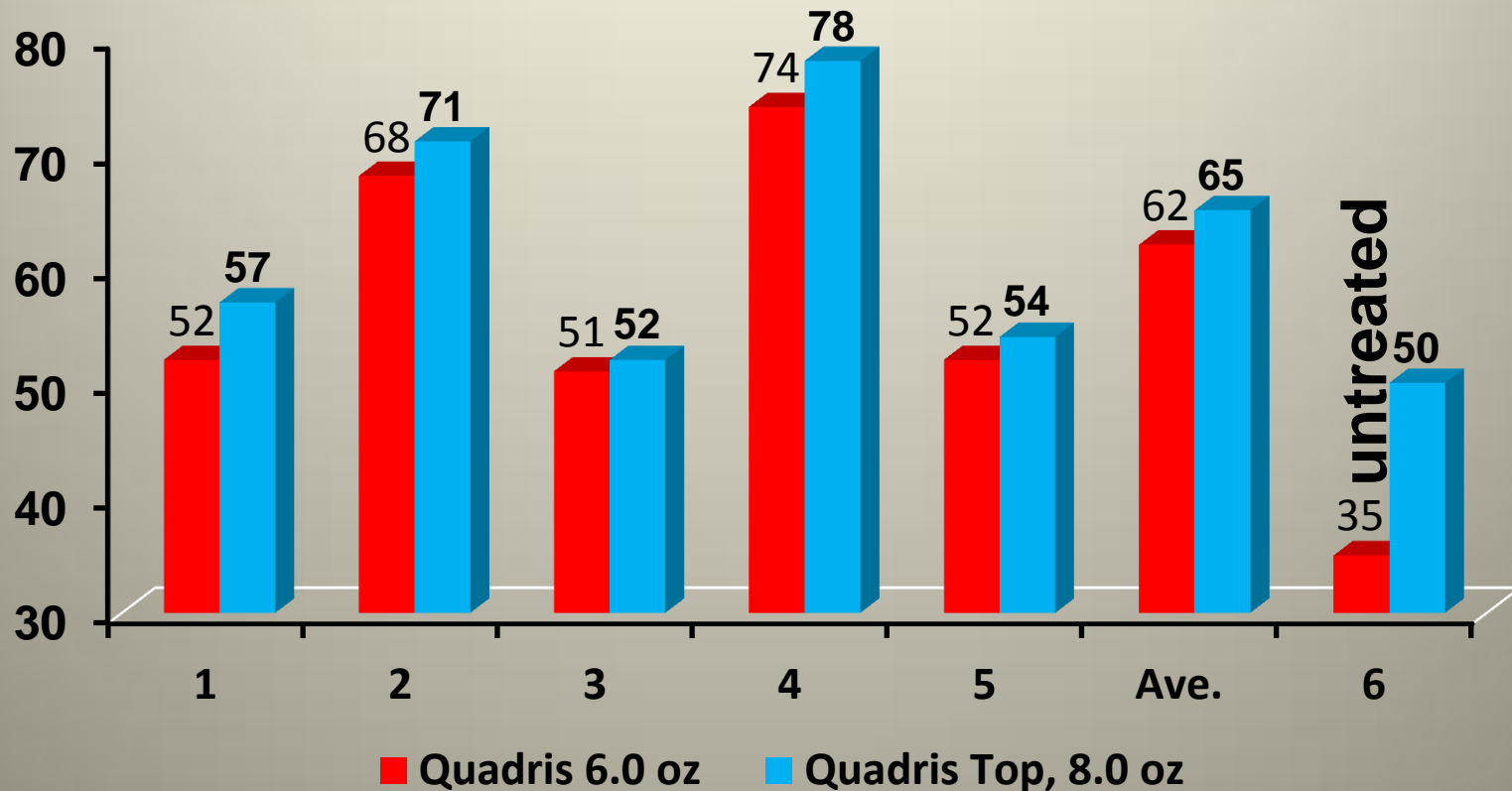


Cercospora Leaf Spot





Soybean sites with moderate to severe disease FELS and CLB



Large block consultant trials - 2012.

1: Indianola, MS – FELS & CLB. 2: Belzoni, MS – FELS. 3: Canton, MS – FELS
4: Morgan City, MS – FELS & CLB. 5: Schlater, MS – FELS @ CLB.

Besiege Insecticide

For Dual-Action, Broad-Spectrum Insect Control in Row Crops

Expected Label in Milo: April 2014



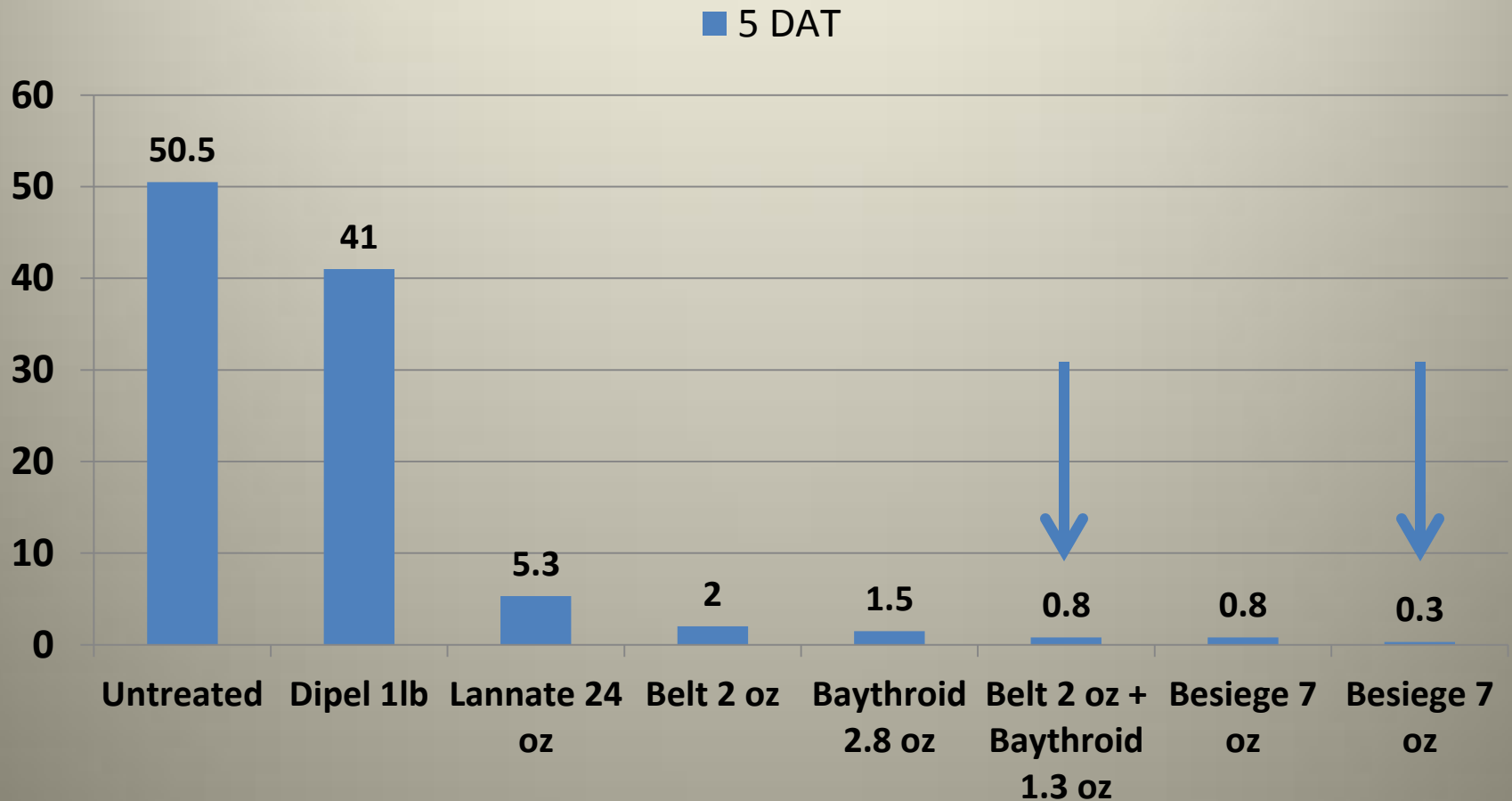
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TM

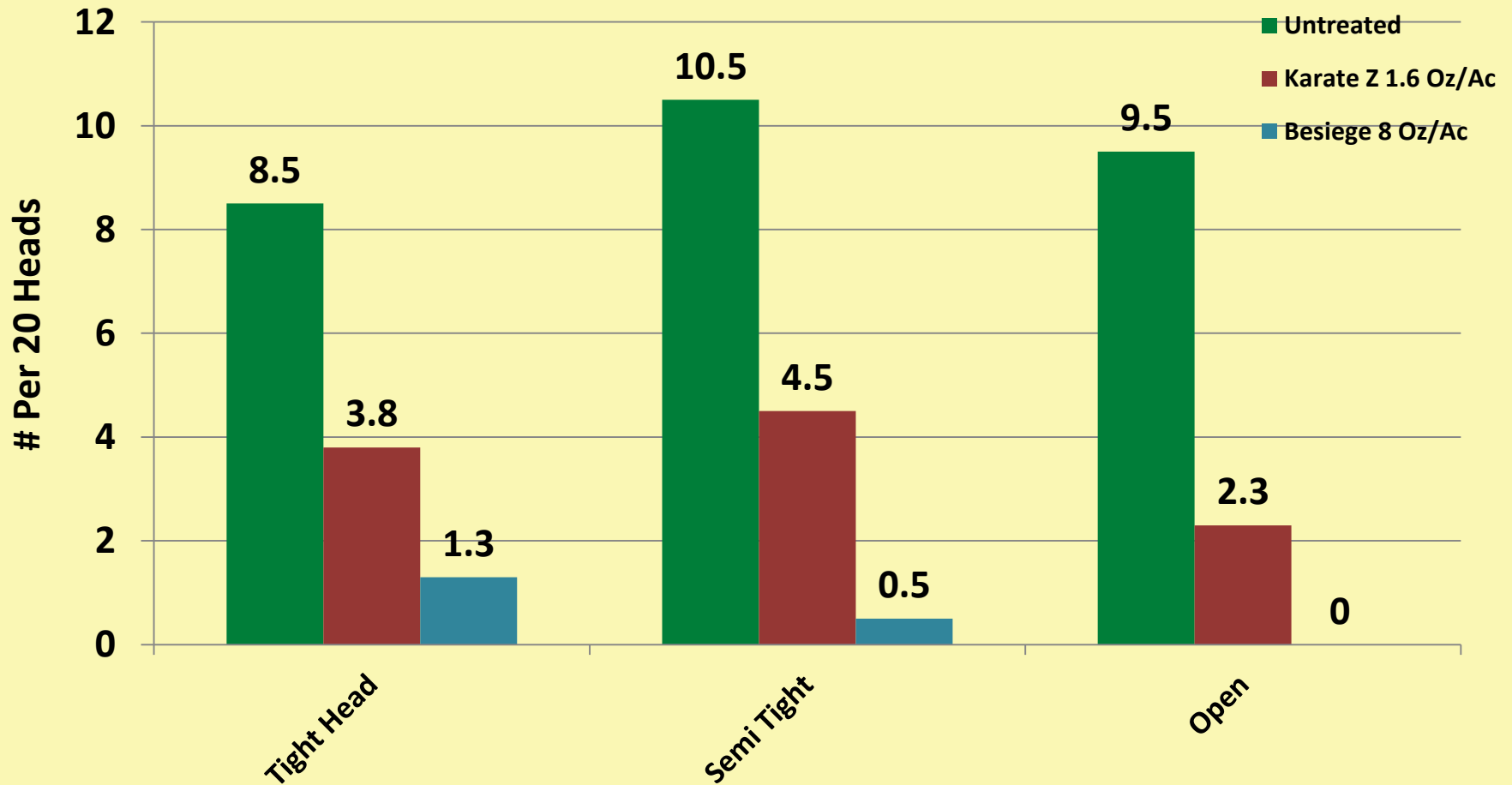
2011 Efficacy of Selected Insecticides on Corn Earworm in Milo



→ Applied at Midge Timing

2012 CEW Head Type Test In Milo

7 DAA





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Thank you!