

# Seed Treatment Research

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# Insecticidal Seed Treatments



# **Insecticidal seed treatments**

## **Dermacor X-100 (chlorantraniliprole)**

**–Controls: RWW, armyworm, borers**

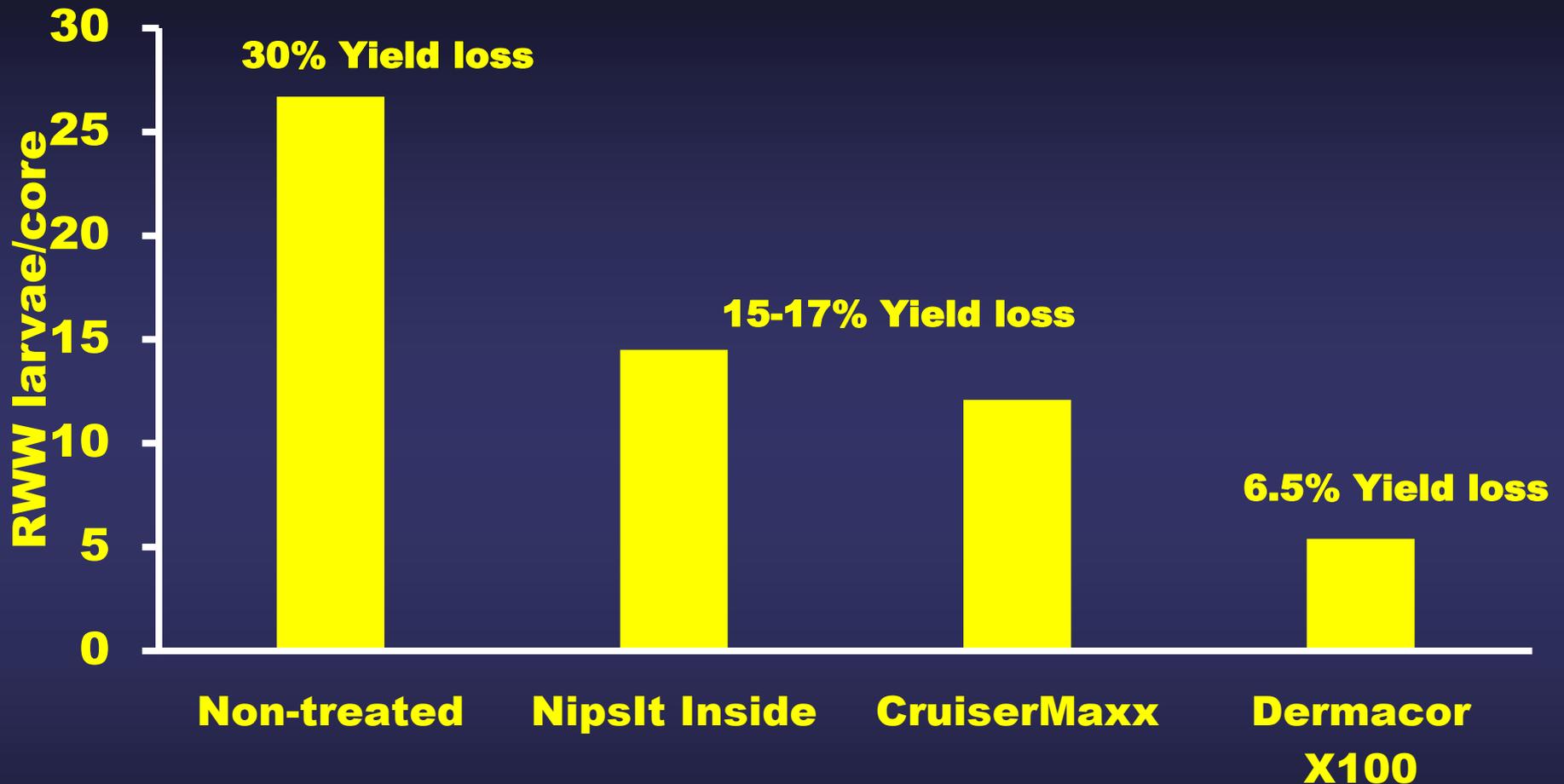
**–Cruiser (thiamethoxam)**

**–NipsIt Inside (clothianidin)**

**–Controls: RWW, colaspis, aphids,**

**– chinch bugs, thrips**

# Insecticidal seed treatment efficacy



**Means from 11 independent field trials  
across LA, TX, MS, AR**

# **Fortenza (cyantraniliprole) – New Seed Treatment**

**Syngenta**

**Available for planting in 2019**

**Evaluated at Crowley 2015-2018**



# **Fortenza (cyantraniliprole) – New Seed Treatment**

**Effectively controls weevils but not stemborers**

**Fortenza alone better than neonicotinoids**

**Fortenza with Cruiser comparable to Dermacor**

**Efficacy against clolaspis, armyworms, other pests unknown**

# **Insecticidal seed treatments**

## **Dermacor X-100 (chlorantraniliprole)**

**Can be water-seeded**

**Rate per acre**

## **Fortenza (cyantraniliprole)**

## **Cruiser (thiamethoxam)**

## **NipsIt Inside (clothianidin)**

**Cannot be water-seeded**

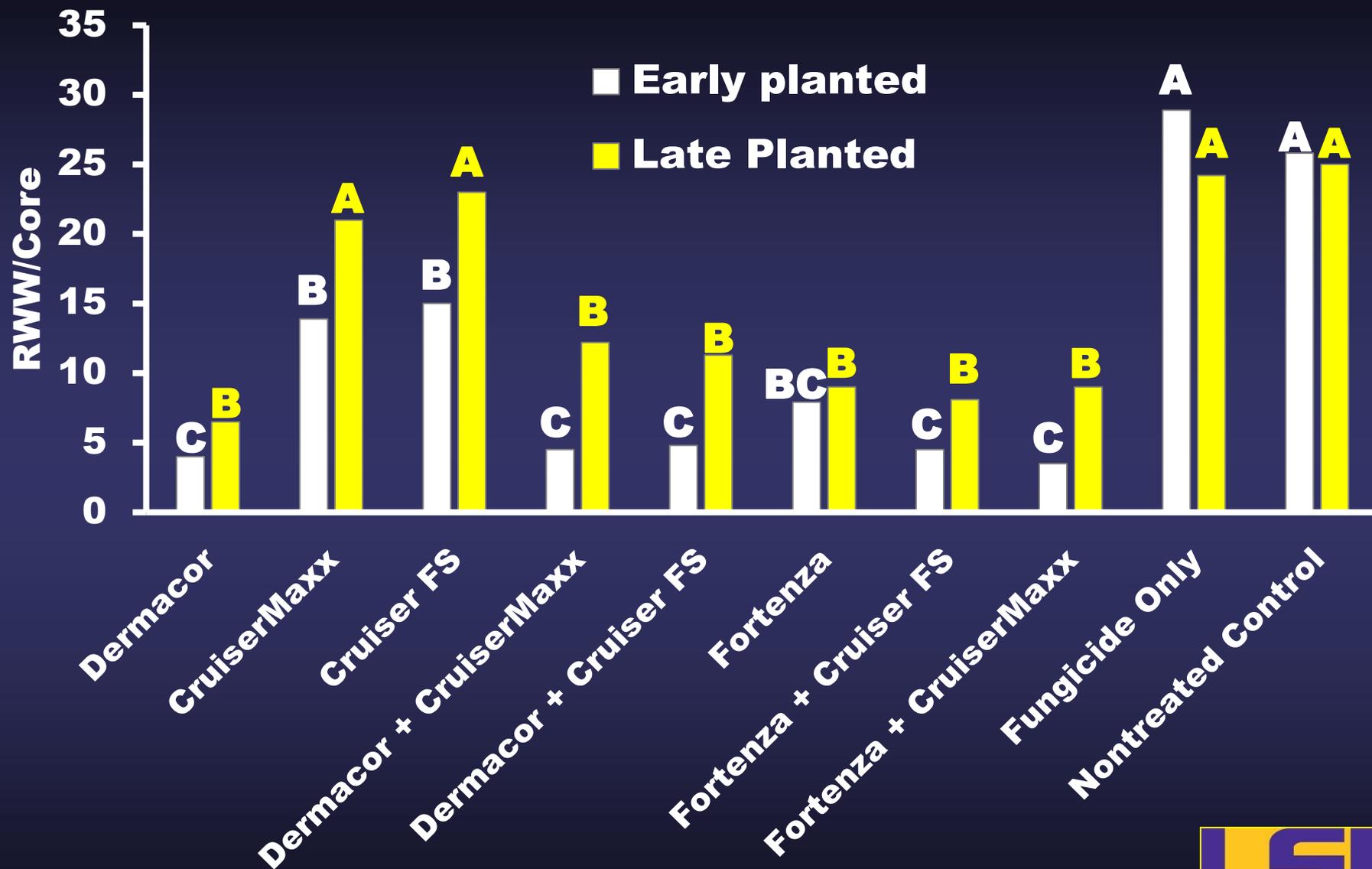
**Rate per 100 lbs seed**

**Available with fungicides**

# Selecting Seed Treatments

- **Justified in nearly all fields in southern LA**
- **Price?**
  - **NipsIt and Cruiser cheaper at low seeding rates, but have reduced control**
- **Fungicides?**
  - **Difficult to determine where needed**
- **Second Crop?**
  - **Dermacor controls borers**

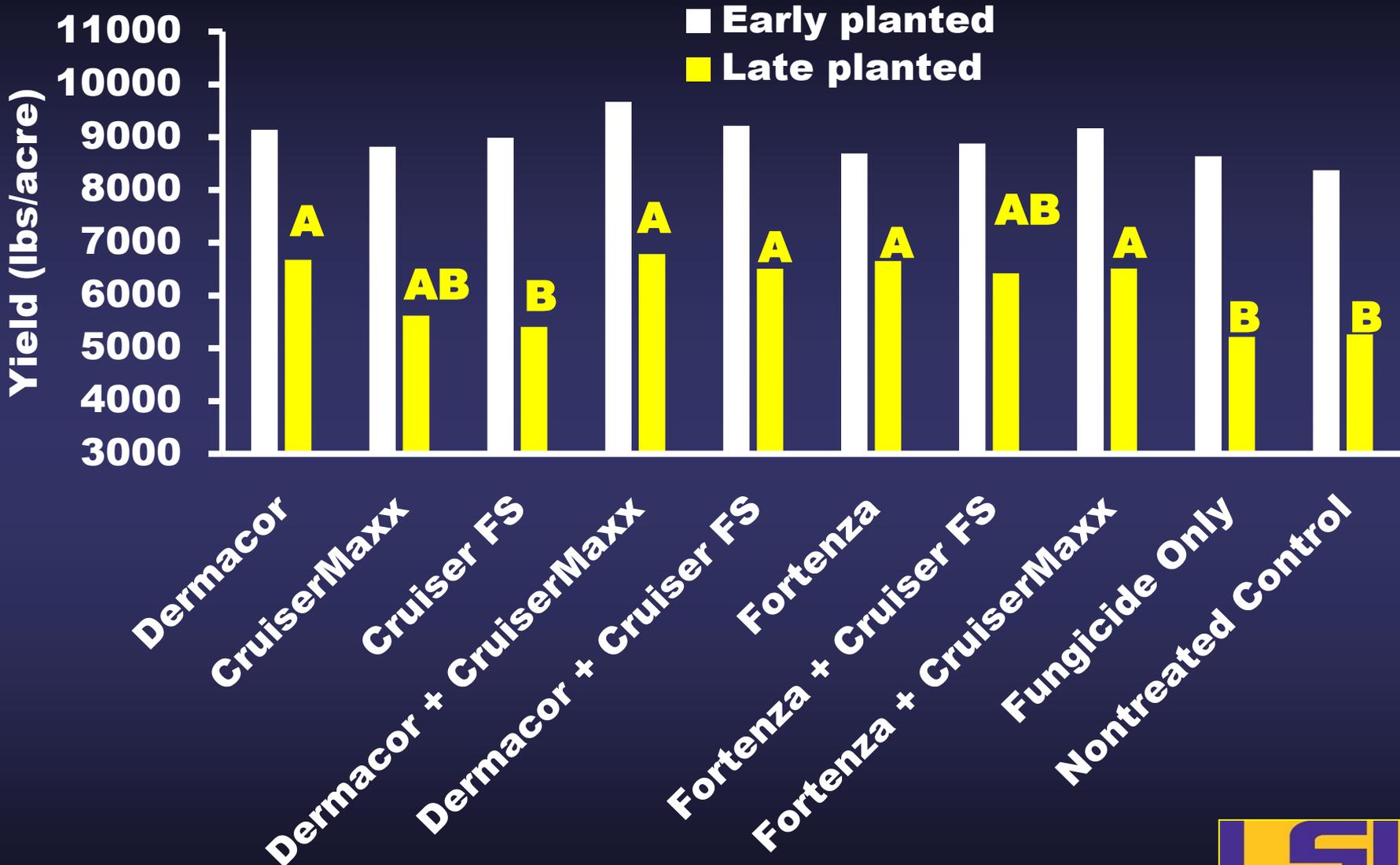
# Seed Treatment Combination Trial 2019



Early:  $F = 39.5$ ,  $df = 9, 27$ ;  $P < 0.001$

Late:  $F = 21.3$ ,  $df = 9, 27$ ;  $P < 0.001$

# Seed Treatment Combination Trial 2019



Early:  $F = 1.1$ ,  $df = 9, 30$ ;  $P = 0.392$   
 Late:  $F = 21.3$ ,  $df = 9, 27$ ;  $P < 0.001$



# Selecting Seed Treatments

- **Stem borers**

- Increasing problem
- High populations is SW Louisiana
- Late planting most at risk

- **Armyworms**

- Can be severe in some cases
- Late planted rice most vulnerable

- **Colaspis**

- Greatest threat in soybean rotation
- Not a problem in crawfish rotation

# Research findings 2019

**Stem borer yield loss 1-2% per  
whitehead/m<sup>2</sup>**



# Colaspis



**Reduces stands following soybeans**

**Photos by N. Hummel**

# Seed Treatment Combinations

- ***Does not* increase weevil control over Dermacor alone**
- ***Does* increase spectrum of pests controlled**

# Questions?

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**Call me or your extension agent with any questions.**

