

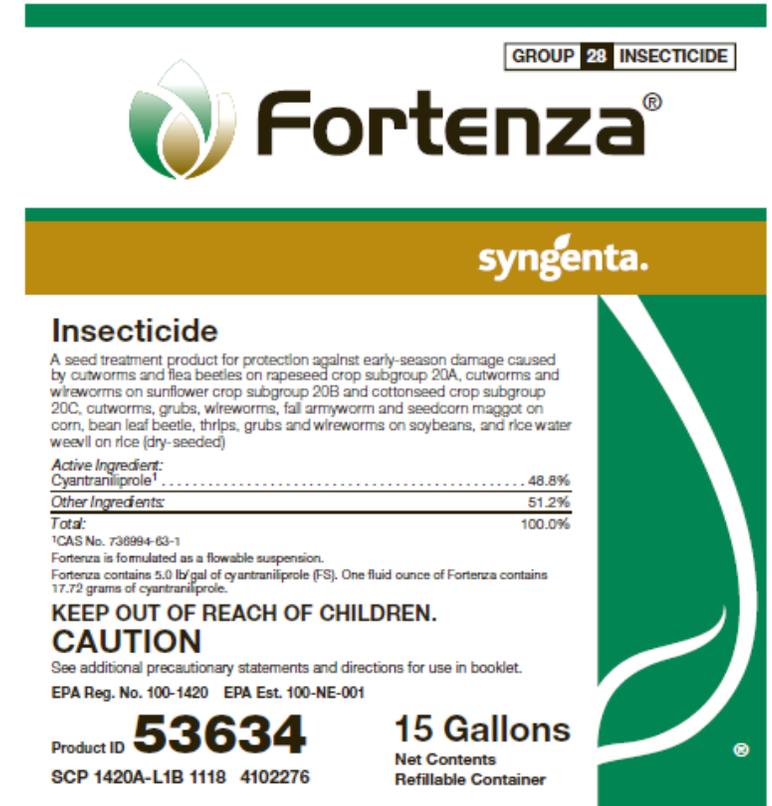
# Fortenza® Seed Applied Insecticide for Rice



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# Fortenza: a new insecticide seed treatment for Mid-South rice

- Cyantraniliprole – bisamide class of insecticides (2<sup>nd</sup> generation diamide)
  - Group 28 insecticide– affects insect nerve and muscle system
    - Thiamethoxam = Group 4A = neonicotinoid – affects nerve action
- Systemic insecticide which is active through both ingestion and contact routes (developed for foliar and seed treatment uses)
  - More potent via ingestion.
  - Insects become lethargic, paralyzed, and eventually die



Classification: Public – Not for Distribution



# Fortenza: a new insecticide seed treatment for Mid-South rice

- Provides protection against the damage caused by rice water weevil during early-season growth and development of rice
- Additional MOA for improved insect control and resistance management
- Long lasting residual
- Compatible with all current Syngenta Seedcare offerings
- Rate is not dependent on rice planting rates

Classification: Public – Not for Distribution



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# Fortenza: a new insecticide seed treatment for Mid-South rice

- Fortenza use rate = 3.47 fl oz/cwt\* (0.03mg AI/seed)
- Fortenza treated rice seed can be planted by drill or broadcast (ground or aerial) on soil
- When broadcasting Fortenza treated seeding on soil, rice seeds must be incorporated into the soil
- Fortenza treated dry rice seed cannot be soaked or pre-germinated before seeding

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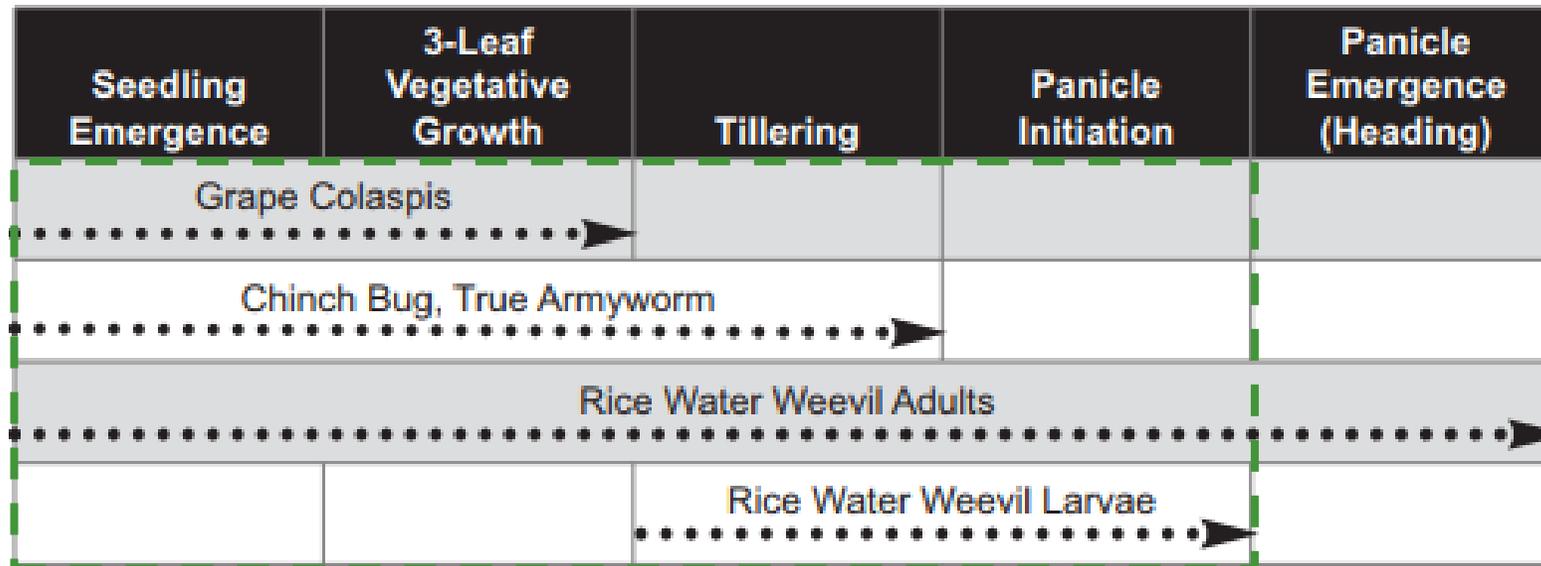
\*based on 21,000 seeds/lb



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# Insects impacting drill-seeded rice and general growth stage affected

 **Cruiser® (Neonic)** +  **Fortenza® (Diamide)**



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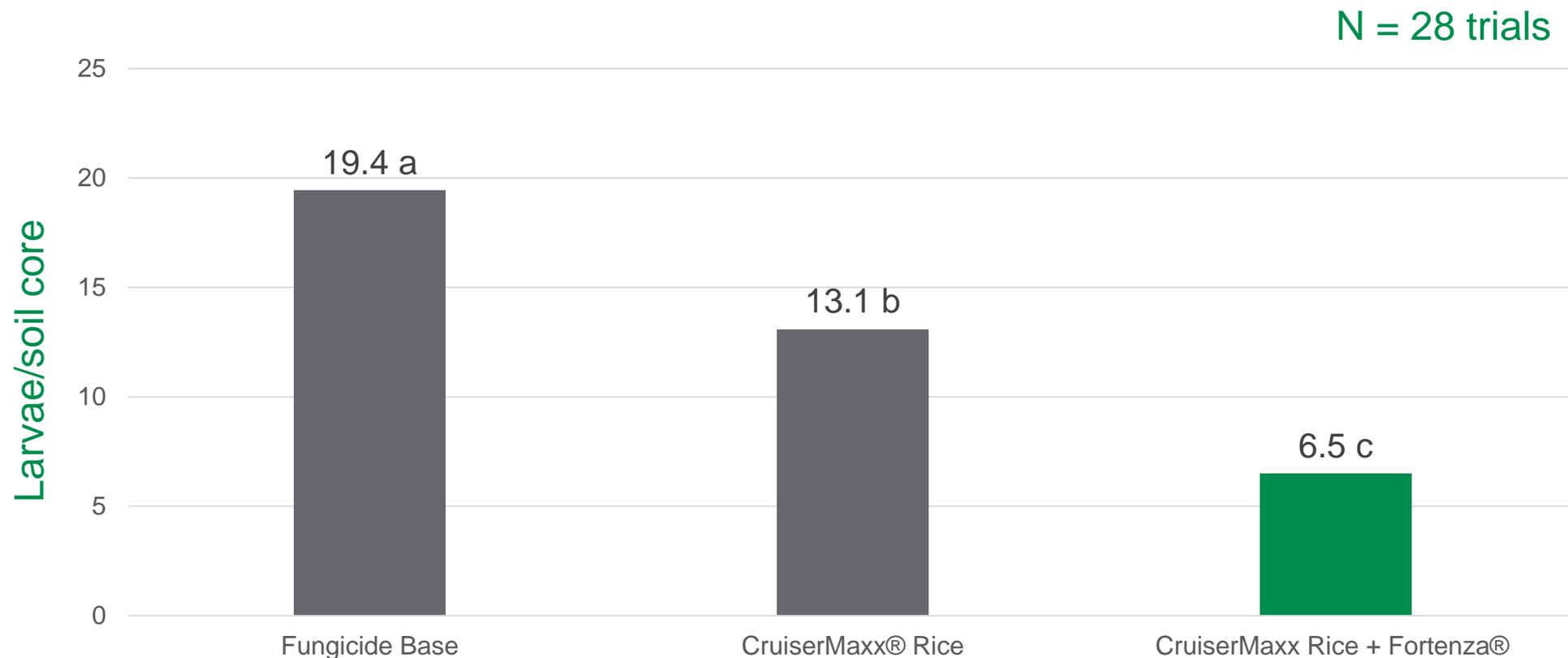
Source: Arkansas Rice Production Handbook. Ch. 12, Insect Management in Rice. G. Lorenz and J. Hardke.



# Insect efficacy trials 2014-2017 (Syngenta treatments)

## Rice water weevil counts (larvae/soil core)

### 2-3 weeks post-flood establishment



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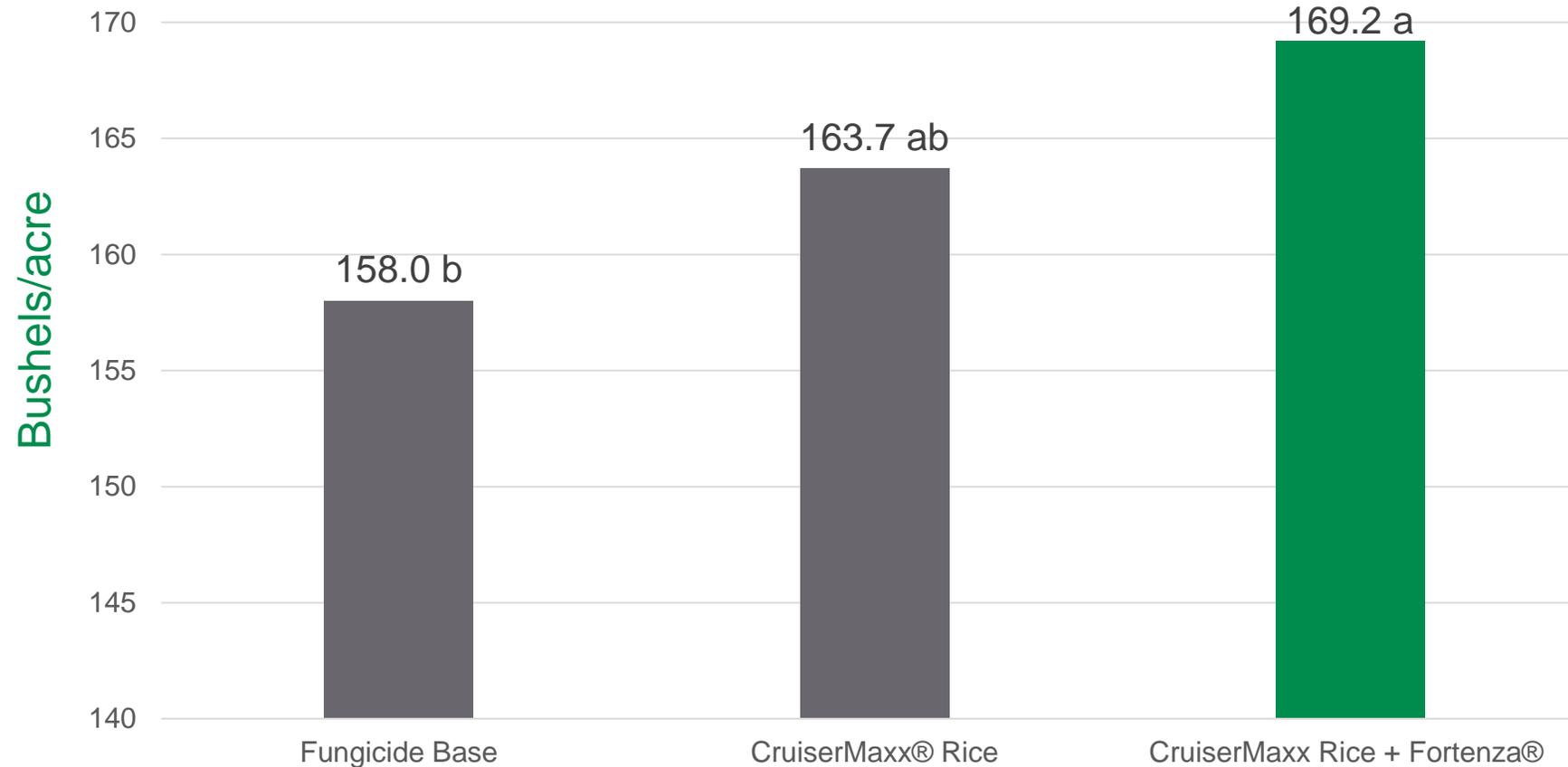
Source: Arkansas, Louisiana, Mississippi and Texas Trials, 2014-2017.



# Insect efficacy trials 2017-2018 (Syngenta treatments)

## Rice yields—Bushels/acre

N = 17 trials



Classification: Public – Not for Distribution

Source: Arkansas, Louisiana, Mississippi and Texas trials, 2017-2018.



UAEX Pine Tree – Colt, AR  
CL151, planted 5/10/2017  
Heavy grape colaspis and rice water weevil pressure

### Fungicide Base



552,921 plants/A

26.7 RWW larvae/core

161.2 bu/A

811,958 plants/A

14.7 RWW larvae/core

179.5 bu/A

796,857 plants/A

6.3 RWW larvae/core

194.7 bu/A

Classification: Public – Not for Distribution

Stand counts take 28 DAP. Pictures taken 48 DAP. RWW larvae sampled 64 DAP.





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# Tavium® Plus VaporGrip® Technology Herbicide

**Pending EPA approval\*\***

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# Tavium<sup>®</sup> Plus VaporGrip<sup>®</sup> Technology – Premix Formulation

- **Formulation:** Capsule Suspension
  - Dicamba acid (diglycolamine salt): 1.12 lb active ingredient/gallon
  - S-metolachlor: 2.26 lb active ingredient/gallon
  - VaporGrip Technology
  
- **Use Rate:** 56.5 fl oz/A
  - Dicamba: 0.5 lb/A
  - S-metolachlor: 1.0 lb/A (~1pt/A equivalent Dual Magnum)

**Pending EPA approval\*\***

Classification: Public , Not for Distribution

# Sequence<sup>®</sup> Increased use rate in Cotton (5 to 10 leaves)



- Can apply up to 3.5 pints per acre of Sequence in a single application from the 5 - leaf through 10 leaf stage of cotton.
- *2.5 pt = 0.98 pt Dual Magnum + 1.35 pt Touchdown Total*
- *3.5 pt = 1.37 pt Dual Magnum + 1.89 pt Touchdown Total*

Classification: Public , Not for Distribution

# Miravis<sup>®</sup> Ace

Adepidyn<sup>®</sup> fungicide in wheat



## *Head Scab and Foliar Disease Control*

 Miravis<sup>®</sup> Ace

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Product performance assumes disease presence.

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# Miravis Ace – Label Highlights



Adepidyn Fungicide (Group 7) + Propiconazole (Group 3)

Apply at 13.7 oz by air (5 GPA) or ground (10+ GPA)

For Head Scab, apply from 50% heading (GS-10.3) through flowering (GS-10.5.3)

Maximum 2 applications per year

Rain fast in one hour. Spray adjuvants recommended

Apply alone or with insecticide if needed

CAUTION signal word

12 hour REI. PHI: Up to Feekes GS-10.5.4

 **Miravis<sup>®</sup>Ace**

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Product performance assumes disease presence.

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# Key Miravis Ace Benefits



- **Excellent control of Fusarium Head Blight\* and other damaging later season diseases – Glume Blotch!**
  
- **Wider effective application window than current standards\***
  - 50% heading (GS-10.3) through flowering (GS-10.5.3)
  - Application to more acres during optimum window
  - Less risk of missing optimum window due to weather
  - Earlier opportunity for “scab treatment” to control other flag leaf and glume diseases prior to damage.
  
- **Increased yield, test weight and kernel quality**
  
- **Reduced DON levels**

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 **Miravis<sup>®</sup>Ace**

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# Miravis<sup>®</sup> Top

Adepidyn<sup>®</sup> fungicide in soybeans

## Disease Control and Crop Enhancement In the Mid South\*

\* Arkansas, Louisiana, Mississippi, SE Missouri, West Tennessee



Miravis<sup>®</sup> Top



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# Soybean Label Highlights

## Active Ingredients:

Difenoconazole, 1.04 lb./gal, Group 3  
Adepidyn<sup>®</sup> fungicide, 0.63 lb./gal, Group 7

## Signal Word:

CAUTION

## REI/PHI:

12 hours/14 days

## Application Rate:

13.7 oz

## Max applications/year:

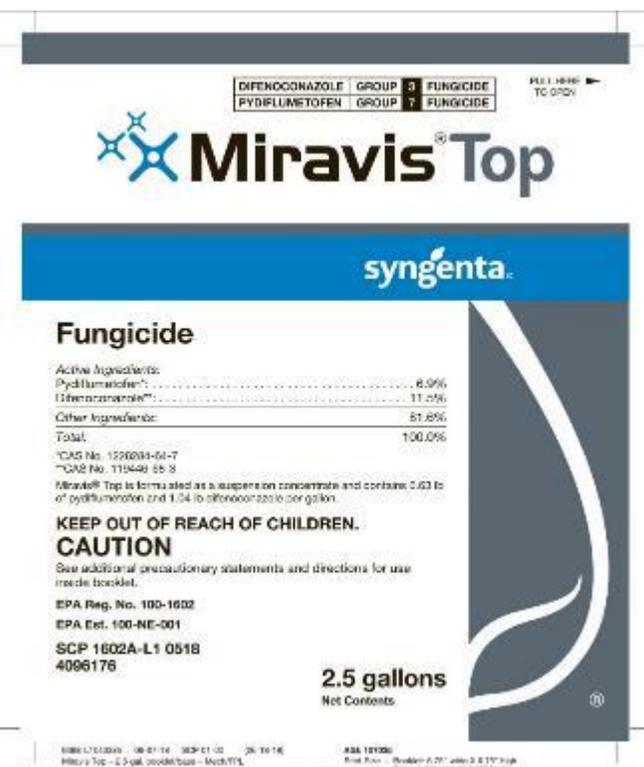
2

## Min application interval:

7 days

## Application:

Air (5 GPA) or ground (10+ GPA). Adjuvants recommended



 **Miravis<sup>®</sup> Top**

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## Performance against Key Mid South Diseases

- Frogeye Leaf Spot: Very long residual – up to 10 days longer than current standards
- Target Leaf Spot: Superior activity and longer residual than current standards applied at R3-R4
- Septoria Brown Spot: Efficacy superior to all currently labeled fungicides!
- Anthracnose/Pod and Stem Blight: Highly active against both diseases
- Aerial Web Blight\*: Consistent reduction in incidence and severity vs. untreated soybeans
- Cercospora Blight (*C. kikuchii*): Performance edge vs. current “standards”



Cercospora Blight



Anthracnose  
Pod and Stem Blight



Aerial Web Blight



Frogeye Leaf Spot



Target Leaf Spot



Septoria Brown Spot

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\* Section 2ee Recommendation.  
AL1602164AC1218

 **Miravis<sup>®</sup> Top**

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# Frogeye Leaf Spot Control in Soybeans Cheneyville, LA – 2017, Pest Management Enterprises



Trial USSDF9652017  
Treatments at R3  
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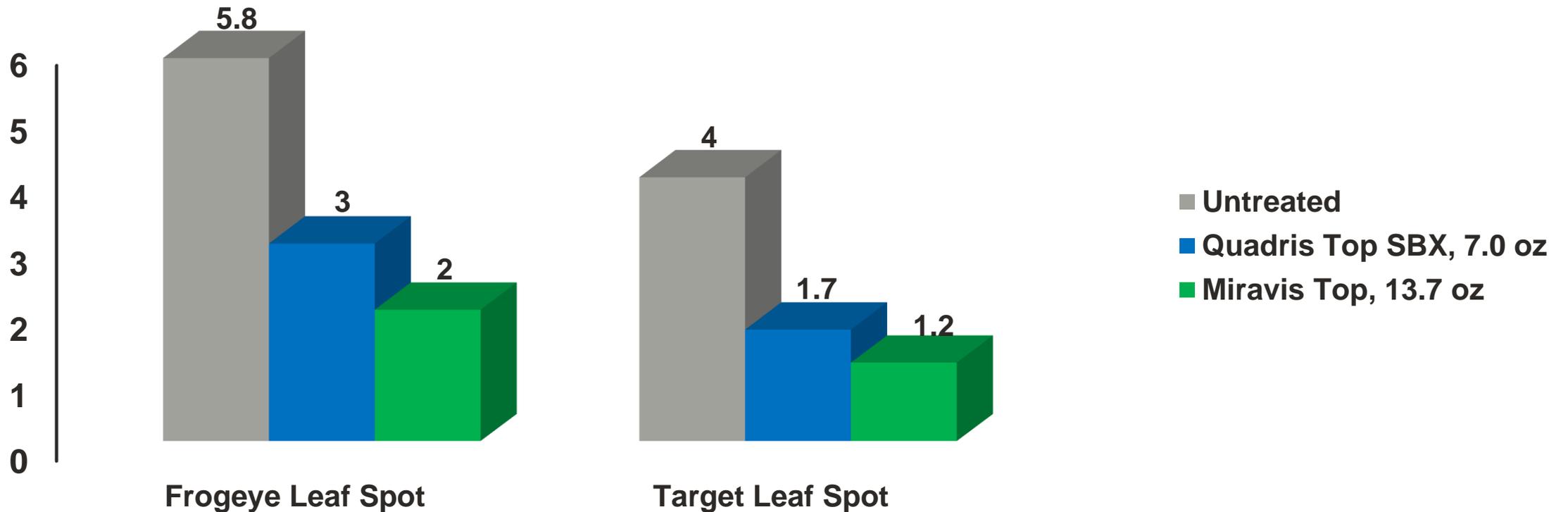
# Soybean Disease Control

Alexandria, LA (Dean Lee Station) – 2017

Dr. Trey Price, LSU



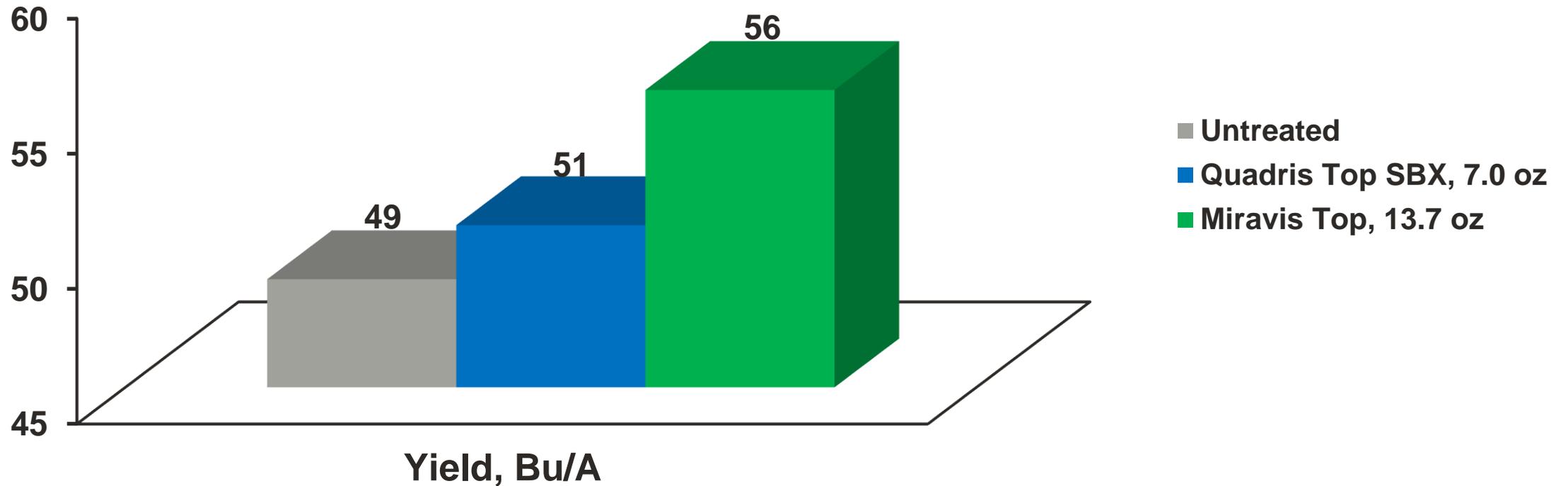
## Disease Severity, 0-9



# Soybean Disease Control

Alexandria, LA (Dean Lee Station) – 2017

Dr. Trey Price, LSU





# Miravis Top for Soybean Disease Control

54 Research and Demonstration Trials

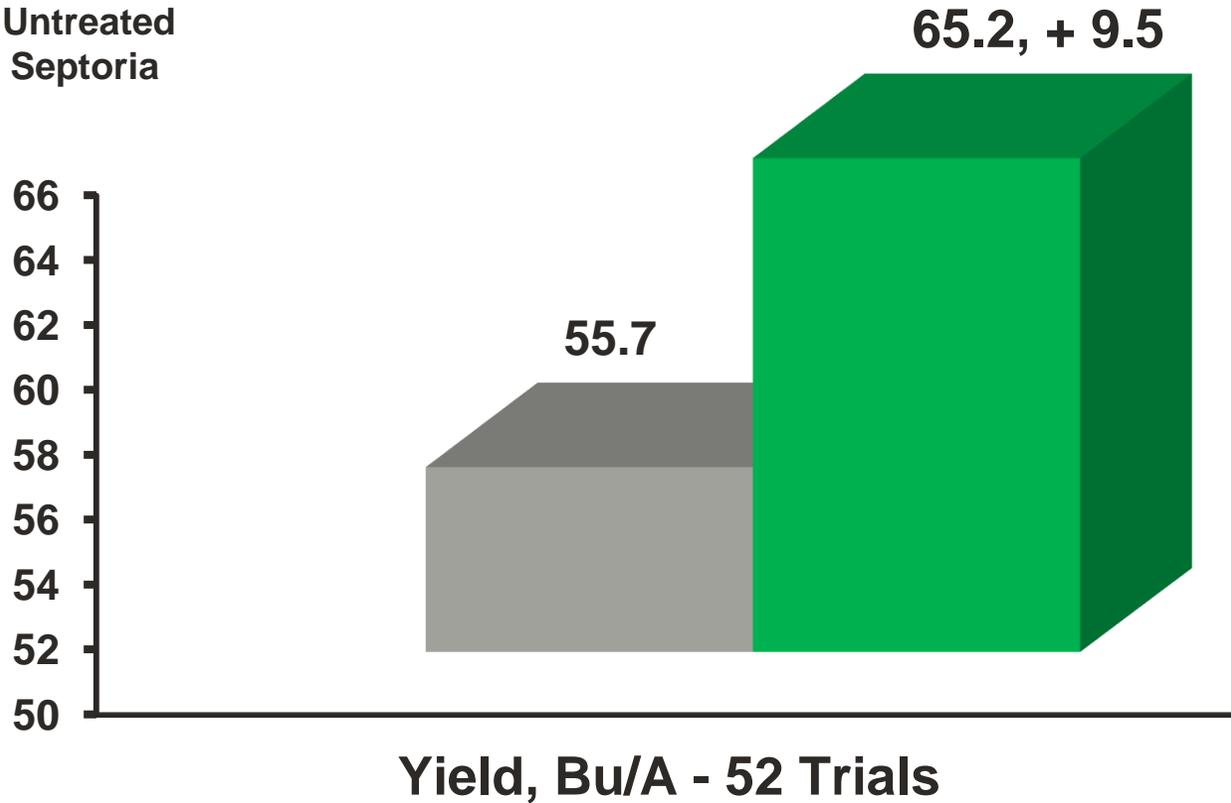
AR/MO (16), LA (9), MS (14), TN (11)

Applications at R3-R4



Tupelo, AR Untreated  
Heavy TLS, Septoria

Tupelo, AR Miravis Top  
Heavy TLS, Septoria



<u>ROI – Net Return Per Acre*</u>	
\$ 8.00/Bu:	+\$49.88
\$ 9.00/Bu:	+\$59.38
\$10.00/Bu:	+\$68.88

- Untreated
- Miravis Top, 13.7 oz

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\* Treated Bu/A X Price/Bu – Untreated Bu/A X Price/Bu – Cost/A (Fungicide + Application + Adjuvant)



# Legal

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Some seed treatment offers are separately registered products applied to the seed as a combined slurry. **Always read individual product labels and treater instructions before combining and applying component products.** Miravis Ace is sold as a combination of separately registered products: Miravis Ace A and Miravis Ace B fungicides. Orondis Gold is a combination of separately registered products: Orondis Gold 200 and Orondis Gold B. Orondis Ridomil Gold is a combination of separately registered products: Orondis Gold 200 and Ridomil Gold SL.

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