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Trevor Newkirk

LACA Emerging Technology, 2026



Introducing: Victrato Seed Treatment



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Overview

Victrato: A new nematicide and fungicide technology under development for seed-applied uses

- **Active ingredient** – Cyclobutrifluram
- **Mode of Action** – FRAC 7 SDHI
- Will provide protection against **a broad spectrum of nematode pests and diseases across all major crops**



Victrato: Cotton Label

Victrato[®] seed treatment provides protection from the following pests:

Plant parasitic nematodes:

- Root-knot nematode (*Meloidogyne incognita*)
- Reniform nematode (*Rotylenchulus reniformis*)
- Columbia lance (*Hoplolaimus columbus*)
- Sting (*Belonolaimus longicaudatus*)

	Fl oz/ 100 cwt	Fl oz/ 220k	Fl oz/ 230k	Fl oz/ 250k
Victrato	13.80	6.75	7.05	7.67

2.5- and 15-GAL keg SKUs

Suppression only:

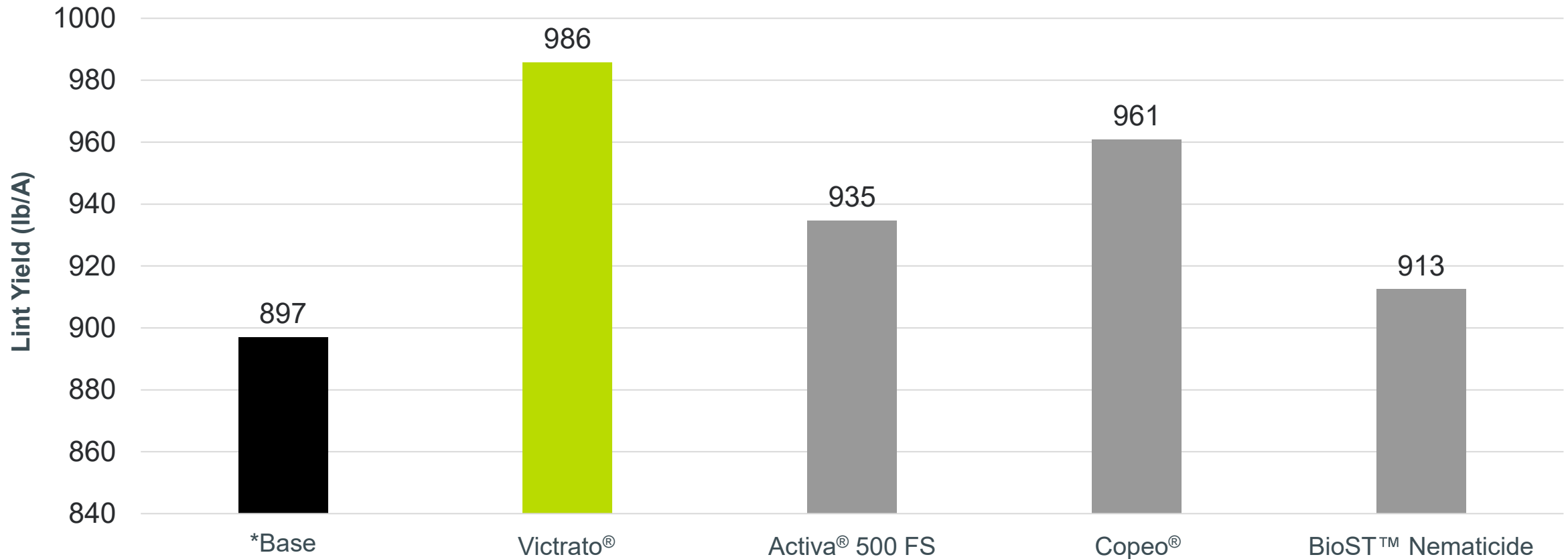
- Cotton root rot (*Phymatotrichopsis omnivorum*)

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Cotton Nematode Trials: Lint Yield 2016-2024



Source: 2016-2024 field trials n=80, unbalanced dataset, AL, AR, AZ, CA, FL, GA, LA, MS, NC, TX, VA

*Base (Vibrance® CST + MFN +myclobutanil + IMID) - All treatments had the same base fungicide and insecticide seed treatments.

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Performance assessments are based upon results or analysis of public information, field observations and/or internal Syngenta evaluations.

Trial reflects treatment rates commonly recommended in the marketplace.

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Soybean Label

Protection From the Following Pests:

- Sudden Death Syndrome (*Fusarium virguliforme*)
- Plant parasitic nematodes
 - Soybean Cyst
 - Root Knot
 - Reniform
 - Lesion
 - Lance
- Suppression of Red Crown Rot (*Calonectria ilicicola*)
- Early-Season Suppression of Foliar Diseases
 - Septoria Brown Spot (*Septoria glycines*)
 - Frogeye Leaf Spot (*Cercospora sojina*)
 - Target Spot (*Corynespora cassiicola*)

Rate:

- 0.075 mg ai/seed **1.52 fl/oz per cwt**
- 50g ai/100kg soybean seed
- **0.714 fl oz/140K**
- Assumes 3,000 seeds/pound

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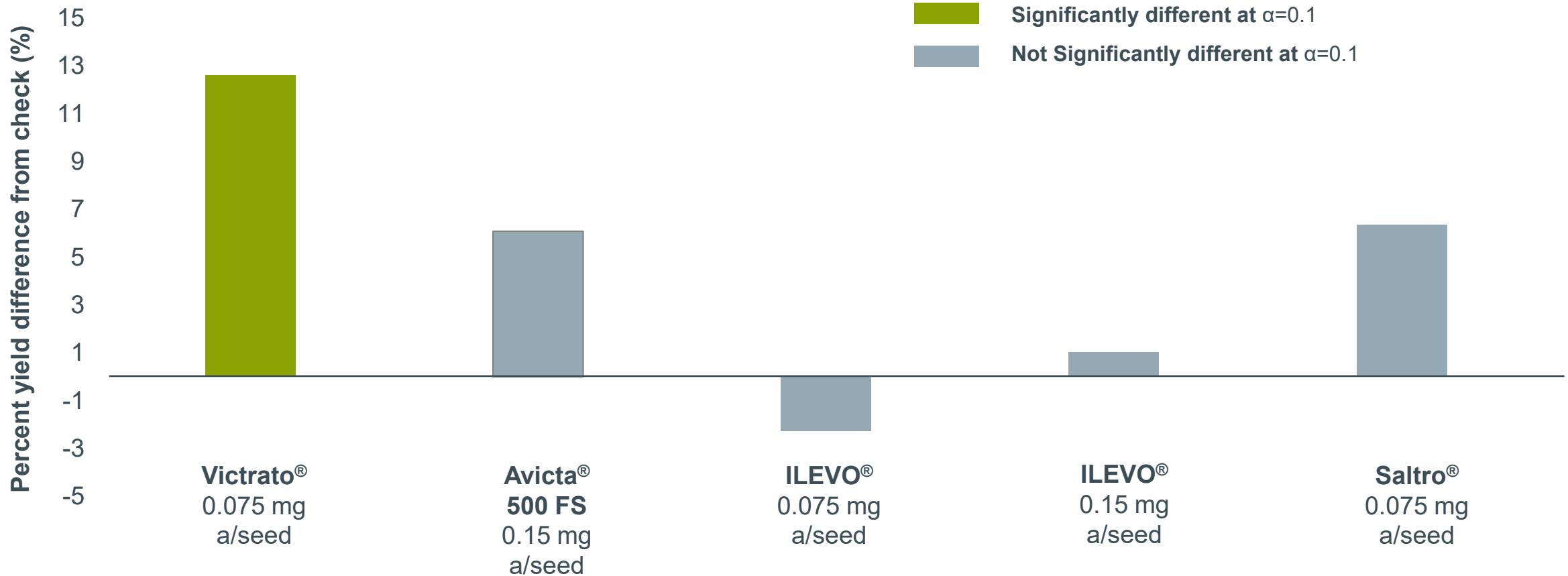
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Soybean Root Knot Nematode Trial - Yield

Nearest Neighbor Experimental Design – 2022



LA; 2022

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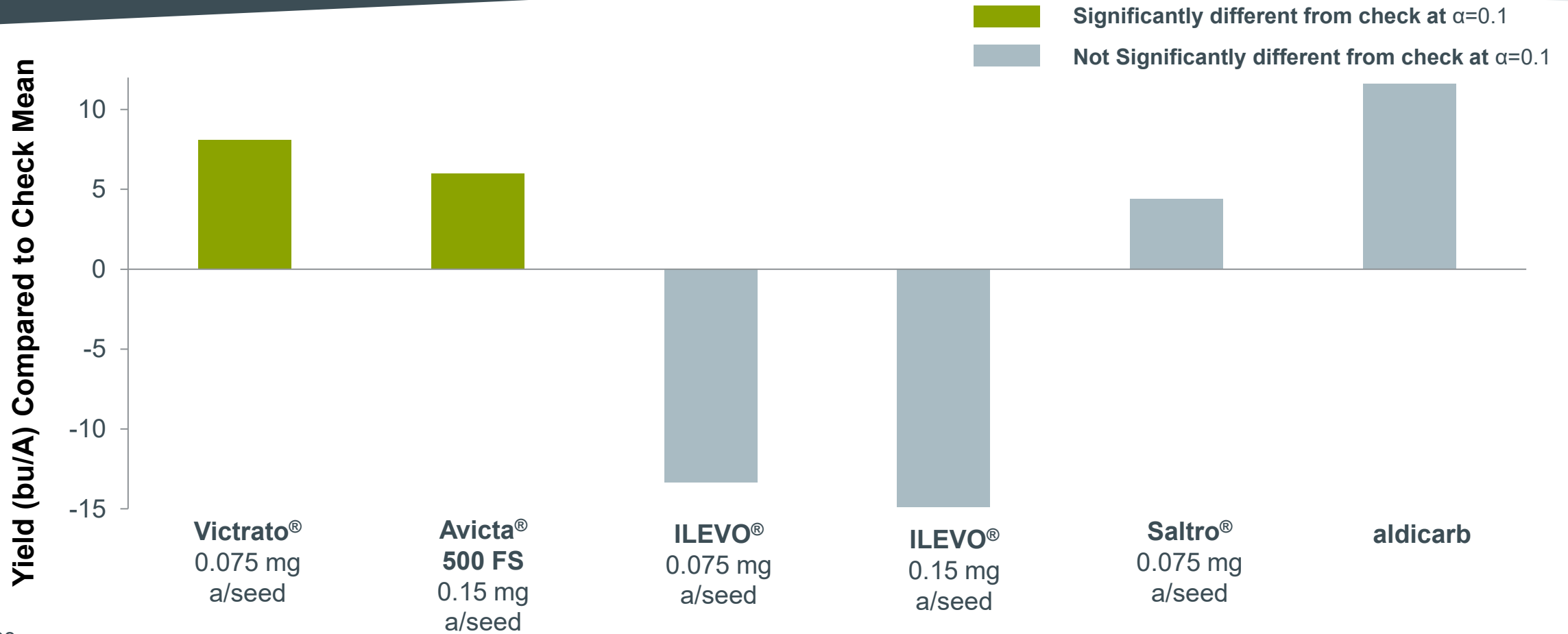
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Soybean Reniform Nematode Trial – Yield

Nearest Neighbor Experimental Design - 2023



LA; 2023

Application rates are in mg ai/seed

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PLINAZOLIN® technology

Knock Out Foliar Pests in Cotton, Peanuts and Soybeans



 **Vertento**®
PLINAZOLIN® technology

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What is the Technology?

PLINAZOLIN[®] technology is the trademark of an innovative active ingredient from Syngenta. The active ingredient, *isocycloseram*, is an insecticide that offers a unique mode of action and protects against a broad spectrum of agricultural pests, including mites, thrips, true bugs, beetles, certain lepidopteran pests as well as other insect pests.

Vertento Insecticide Insect Pests



Plant Bugs
Miridae



Mites
Tetranychidae



Stink Bugs
Pentatomidae



Tobacco Thrips
Frankliniella fusca



Western Flower Thrips
Frankliniella occidentalis



Redbanded Stink Bug
Piezodorus guildinii



Leafminer
Liriomyza sp.



Bean Leaf Beetle
Cerotoma trifurcata

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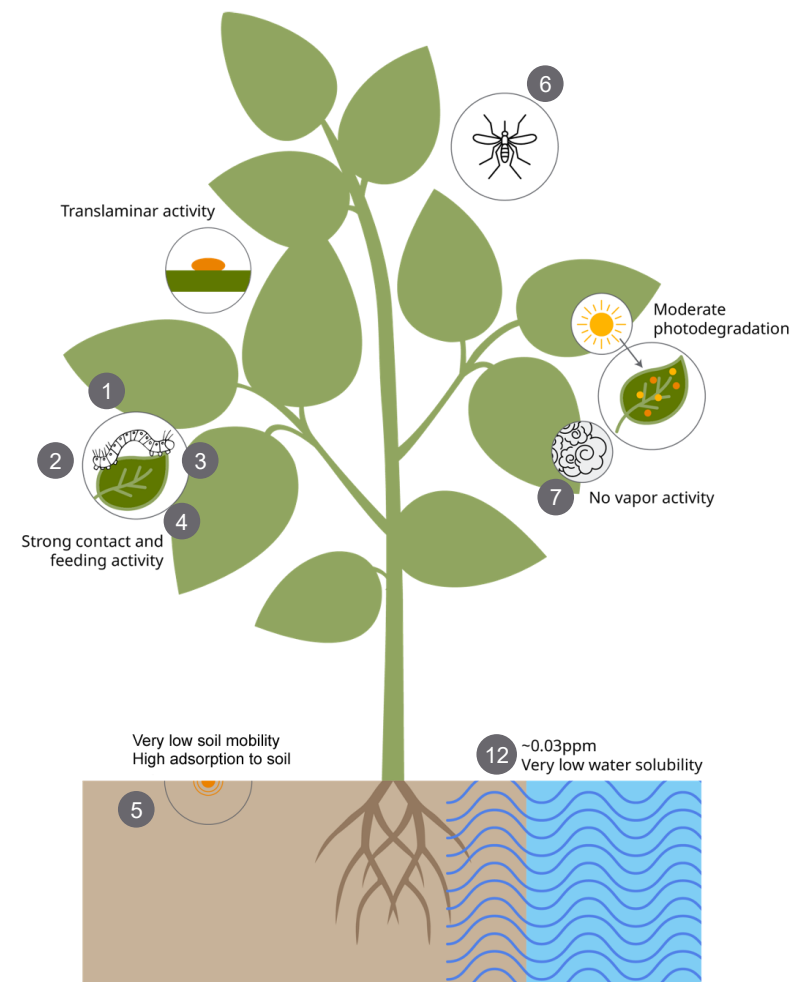
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 **Vertento**®
PLINAZOLIN® technology

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Summary of Properties

1. Stays on leaf surface
 - Some translaminar movement
2. Acts via contact and ingestion
3. Novel mode of action
 - Resistance breaker IRAC Group 30
4. Rapid feeding cessation
 - Insect mortality in 1-4 days
5. Control
 - Reliable residual effect
6. Protection in the root zone
 - Strong binding to soil particles
7. Broad spectrum
 - Controls many different insects and mites
8. Crop safety
 - None of the formulations showed phytotoxicity
9. UV stability
 - Slow degradation on the leaf surface
10. Low volatility
 - No vapor effect
11. Resist rain washing
 - All formulations stick well to leaf surfaces and are not washed off
12. Low water solubility
 - No systemic uptake into the roots or movement within the leaf when applied to the foliage



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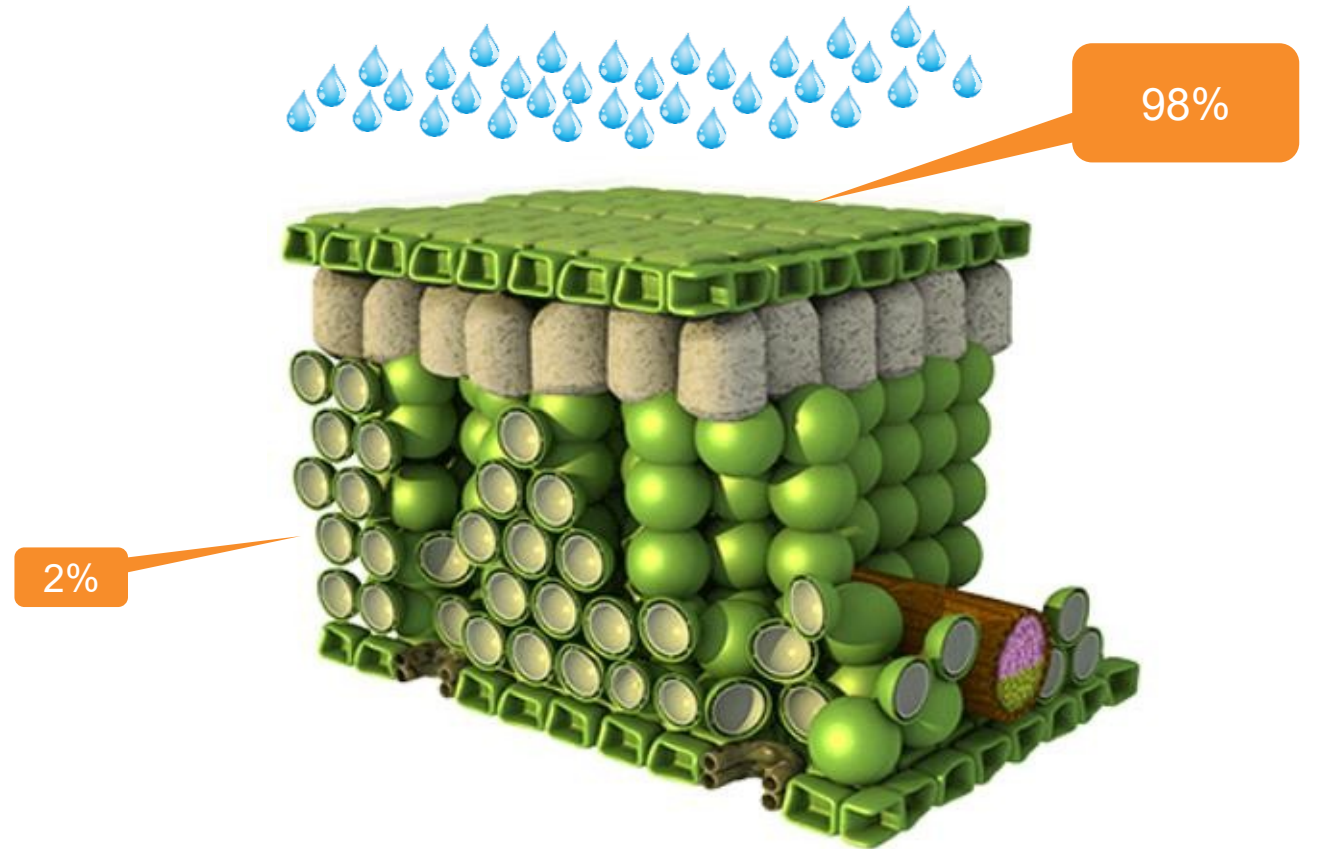
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Properties of PLINAZOLIN Technology

Product stays on the leaf surface

- Low penetration into the leaf
 - 98% remains on the leaf surface
 - Deposit remains on surface for several weeks
 - Some translaminar movement – effect on mites
 - No phytotoxicity reported in trials
- UV stability
 - Long residual effect
- Adjuvants
 - Improved leaf retention and uptake
- Rainfastness



Endangered Species Act (ESA) Mitigations

- Bulletins Live! Two (BLT)
 - Applicators instructed to search BLT within 6 months prior to application
- See label for mitigations around endangered species

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COTTON

Crop Subgroup 20C Directions For Use

7.5 Cotton, Crop Subgroup 20C

Crops (Including all cultivars, varieties, and/or hybrids of these)

Cotton

Target Pest	Rate (fl oz/A)	Application Timing	Use Directions
Cotton fleahopper Spider mites Tobacco thrips	1.1 – 2.0	Time applications to the most susceptible insect or mite pest life stage at locally determined action threshold before populations reach damaging levels.	Aerial application to cotton is permitted. Under high pest populations or when using aerial application, apply a higher rate within the labeled rate range.
Brown stink bug Clouded plant bug Green stink bug Southern green stink bug Tarnished plant bug (<i>Lygus lineolaris</i>) Western tarnished plant bug (<i>Lygus hesperus</i>)	1.6 – 2.0	For spider mite control, apply when spider mites are first observed. For thrips control, begin making applications when populations are low.	Apply this product, by ground or air, diluted in a minimum volume of 5 gal/A. Under conditions such as high pest populations, dense foliage or adverse application conditions (such as high temperatures), use a greater volume of water to ensure adequate coverage. For best control, apply Vertento® insecticide with ground application equipment. With aerial application, the resulting level and duration of control could be less than with ground application.

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COTTON

Crop Subgroup 20C Directions For Use

Resistance Management:

- Refer to **Section 3.2**
- Do not make more than two sequential applications of Vertento® insecticide or any foliar-applied isocycloseram-containing product.
- **Thrips:** Use as part of an effective thrips control program. Rotate with products of different modes of action.

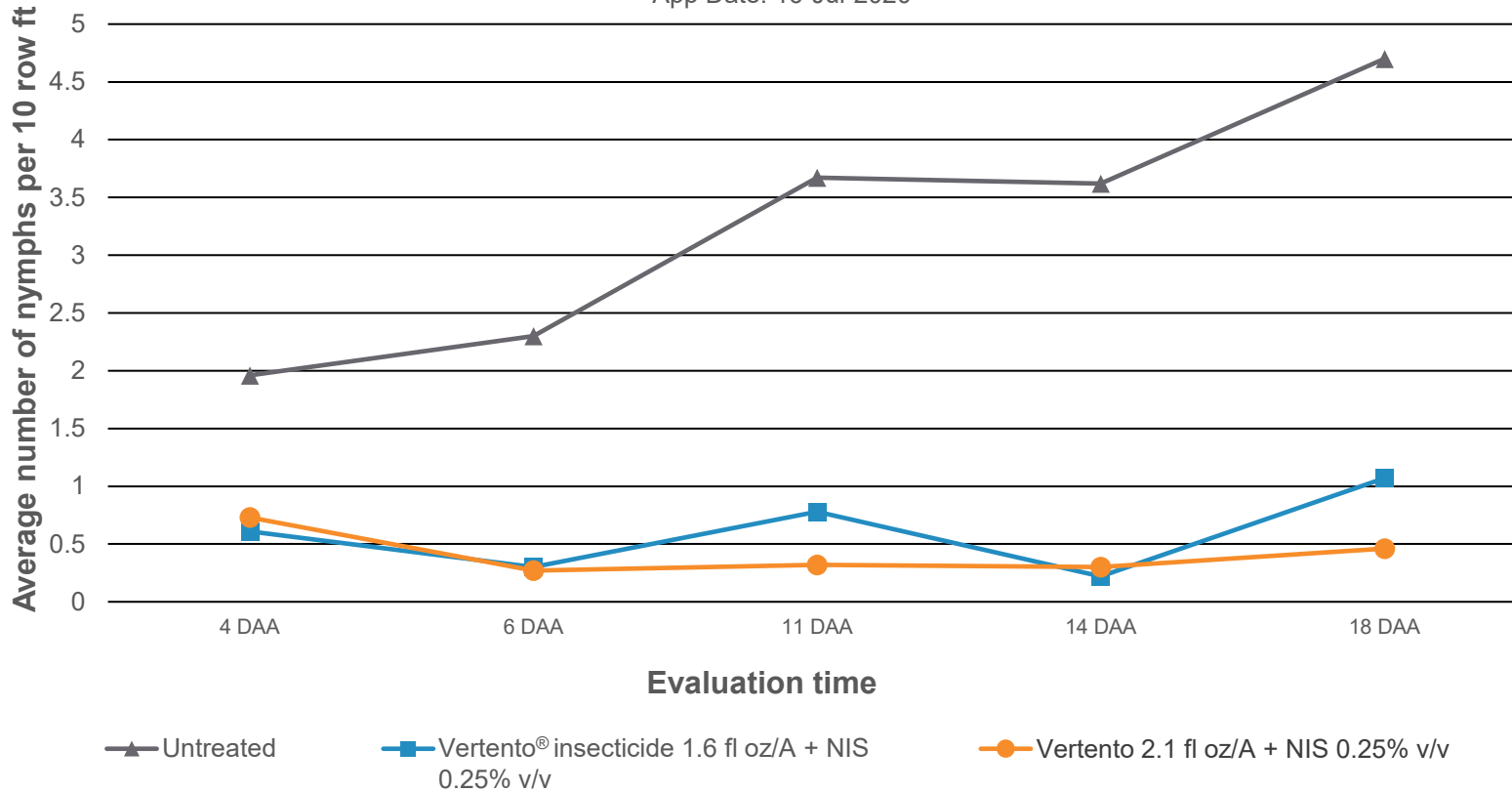
USE RESTRICTIONS

- 1) Refer to **Section 6.1** for additional product use restrictions.
- 2) **Maximum Single Application Rate:** 2.0 fl oz/A/application
 - a. **DO NOT** exceed 0.0520 lb ai/A of isocycloseram-containing products.
- 3) **Minimum Application Interval:** 7 days
- 4) **Maximum Annual Rate:** 4.0 fl oz/A/year
 - a. **DO NOT** exceed 0.104 lb ai/A/year of isocycloseram-containing products including all application types (seed treatment, soil, foliar).
- 5) **DO NOT** make more than two applications per year.
- 6) Foliar application of this product is prohibited from the onset of flowering until flowering is complete unless: (i) the application is made before 10 am or after 3 pm, OR (ii) the application is being made at a time when the temperature at the application site is 50°F or less.
- 7) **DO NOT** feed or allow livestock to graze treated cotton.
- 8) **Pre-Harvest Interval (PHI):** 14 days

Tarnished Plant Bug in Cotton

Lygus lineolaris on cotton | Location: Marianna, AR | External Cooperator Trial: USSE014312020.
Average number of nymphs - Number per 1 row foot

No. Of Apps: 1
App Date: 16-Jul-2020



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SOYBEAN

Directions For Use (cont.)

7.11 Soybean

Target Pest	Rate (fl oz/A)	Application Timing	Use Directions
Redbanded stink bug Suppression: Corn earworm Japanese beetle (adult)	2.0	Time applications to the most susceptible insect or mite pest life-stage at locally determined action threshold before populations reach damaging levels.	<p>Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures), use a greater volume of water to ensure adequate coverage.</p> <p>For best control, apply Vertento® insecticide with ground application equipment. With aerial application, the resulting level and duration of control could be less than with ground application.</p>

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SOYBEAN

Directions For Use

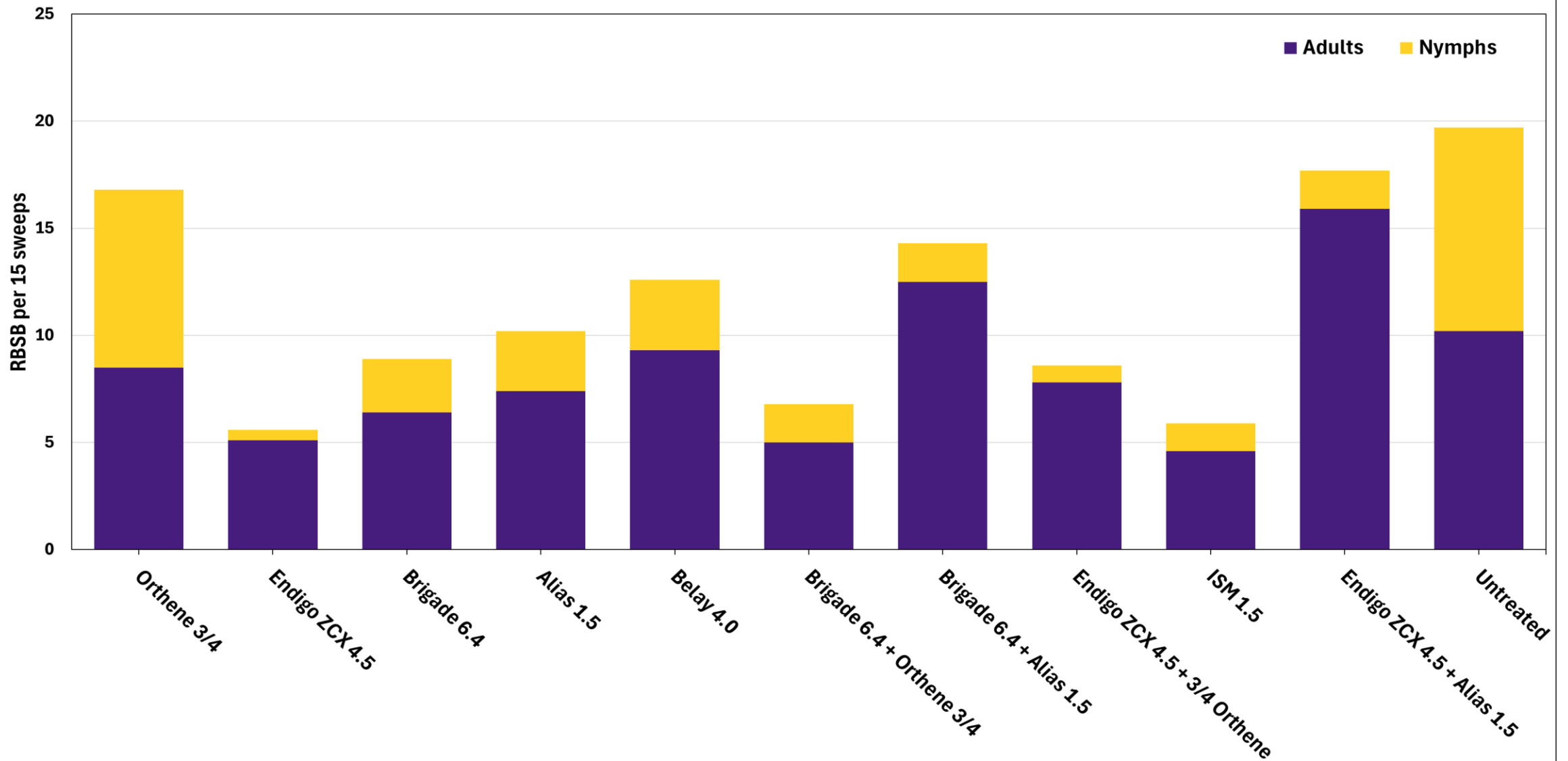
Resistance Management:

- Refer to Section 3.2

USE RESTRICTIONS

1. Refer to **Section 6.1** for additional product use restrictions.
2. **Maximum Single Application Rate: 2.0 fl oz/A/application**
 1. **DO NOT** exceed 0.0520 lb ai/A of isocycloseram-containing products.
3. **Minimum Application Interval: 7 days**
4. **Maximum Annual Rate: 4.0 fl oz/A/year**
 1. **DO NOT** exceed 0.104 lb ai/A/year of isocycloseram-containing products including all application types (seed treatment, soil, foliar).
5. **DO NOT** make more than two applications per year.
6. Aerial application to soybean is only permitted in the following states: Alabama, Arkansas, Georgia, Louisiana, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas.
7. **Foliar application of this product is prohibited from the onset of flowering until flowering is complete unless: (i) the application is made before 10 am or after 3 pm, OR (ii) the application is being made at a time when the temperature at the application site is 50°F or less.**
8. **DO NOT** allow livestock to graze in treated areas or harvest treated soybean forage, straw or hay as feed for livestock.
9. **DO NOT** feed treated soybean fodder or silage to livestock.
10. **Pre-Harvest Interval (PHI): 14 days**

Redbanded Stink Bug Insecticide Efficacy 14 DAA- Winnsboro, LA 2025 (Kerns)



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