



2023 LATMC
Emerging Technologies Update
John Lee- Retail Market Manager



NEW FOR 2023

ADASTRIO™ FUNGICIDE

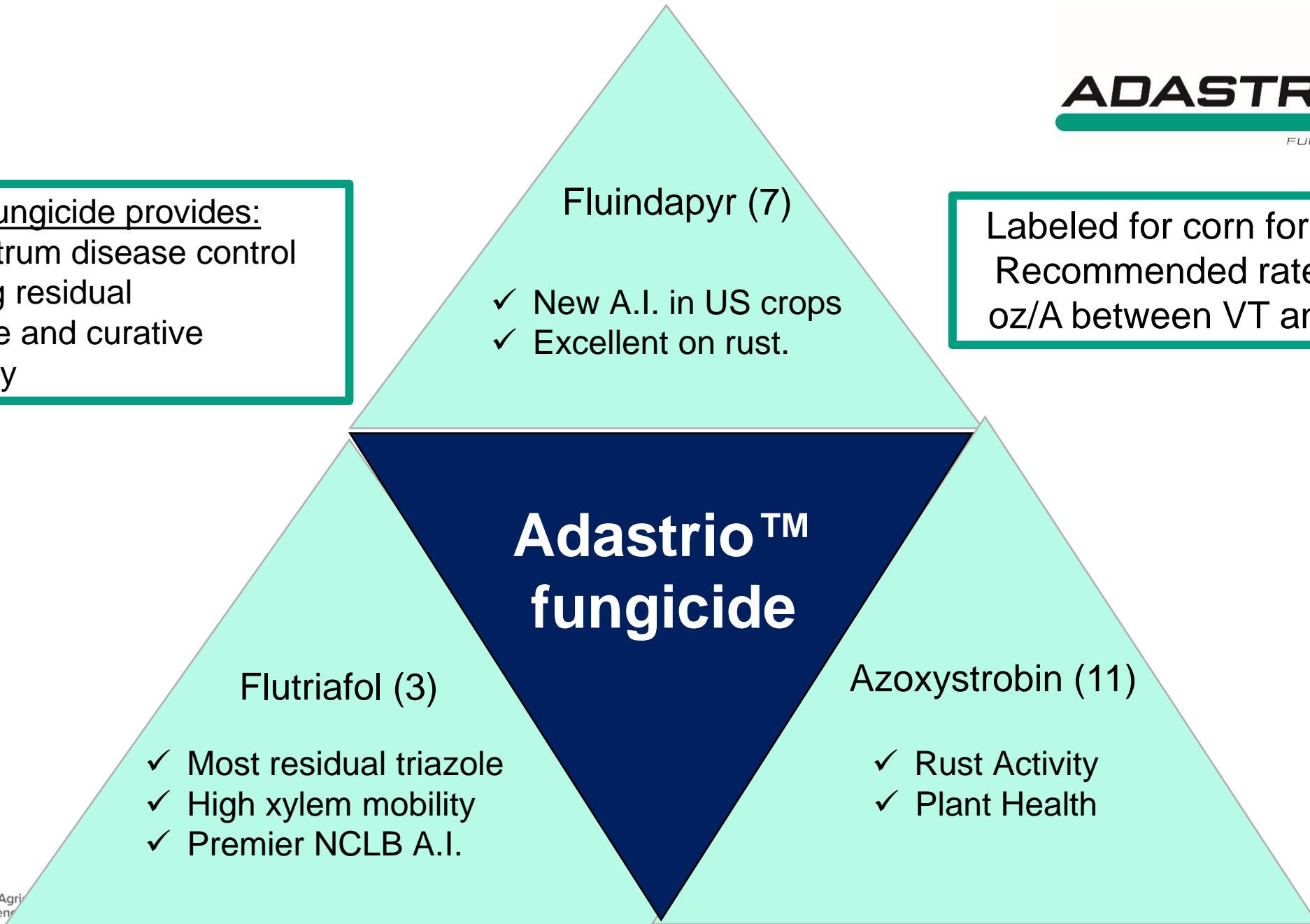


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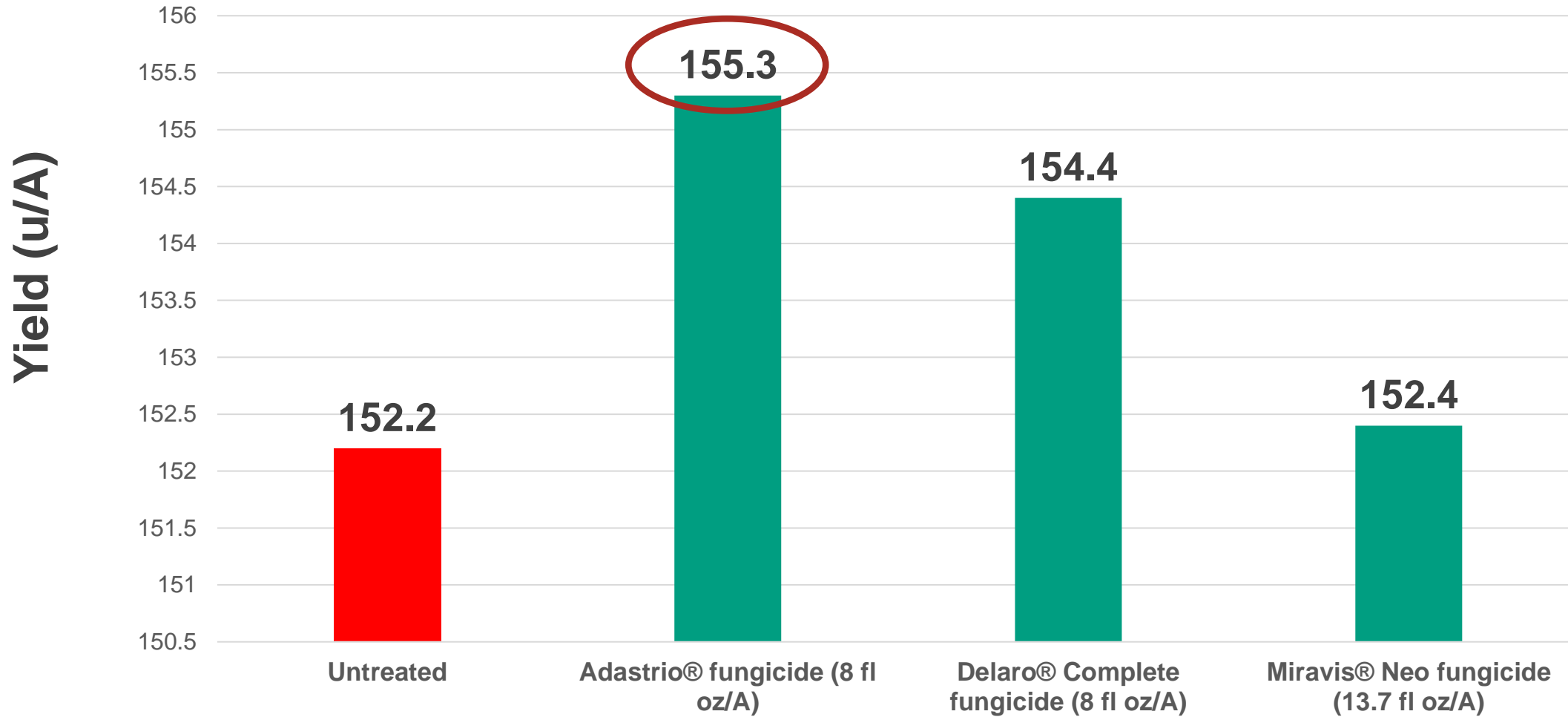


- Adastrio fungicide provides:
- ✓ Broad spectrum disease control
 - ✓ Long lasting residual
 - ✓ Preventative and curative
 - ✓ High mobility

Labeled for corn for 2023
Recommended rate of 8 oz/A between VT and R3



Yield Response To Foliar Fungicides in Field Corn



NEW FOR 2023

ZIRONAR™ BIOLOGICAL FUNGICIDE/NEMATOCIDE

FMC

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ZIRONAR™

BIOFUNGICIDE/BIONEMATOCIDE

A biological fungicide/nematicide for in-furrow use for early season protection against listed fungal diseases and soil nematodes.

- Zironar™ biofungicide/bionematicide is a spore-based product. Spores do not require special shipping or storage conditions and give our product a minimum **2-year shelf life**.
- Labelled for corn, cotton, soybeans, and sugarcane.
- Apply in-furrow during planting

EPA Reg. No. 279-3618

EPA Est. No. 279-NY-1

ACTIVE INGREDIENTS:

| | By Wt. |
|---|---------------|
| <i>Bacillus licheniformis</i> strain FMCH001* | 3.50% |
| <i>Bacillus subtilis</i> strain FMCH002** | 4.00% |
| OTHER INGREDIENTS: | <u>92.50%</u> |
| | 100.00% |

*Contains a minimum of 2.3 X 10¹⁰ colony-forming units (cfu) per milliliter of product.

**Contains a minimum of 2.3 X 10¹⁰ colony-forming units (cfu) per milliliter of product.

This product contains a total of 0.73 pound of active ingredients per gallon.



BIOFUNGICIDE/BIONEMATICIDE

Labeled Pests

Recommended rate for soybeans, cotton, and corn:

38" Rows: 4.75 oz/A

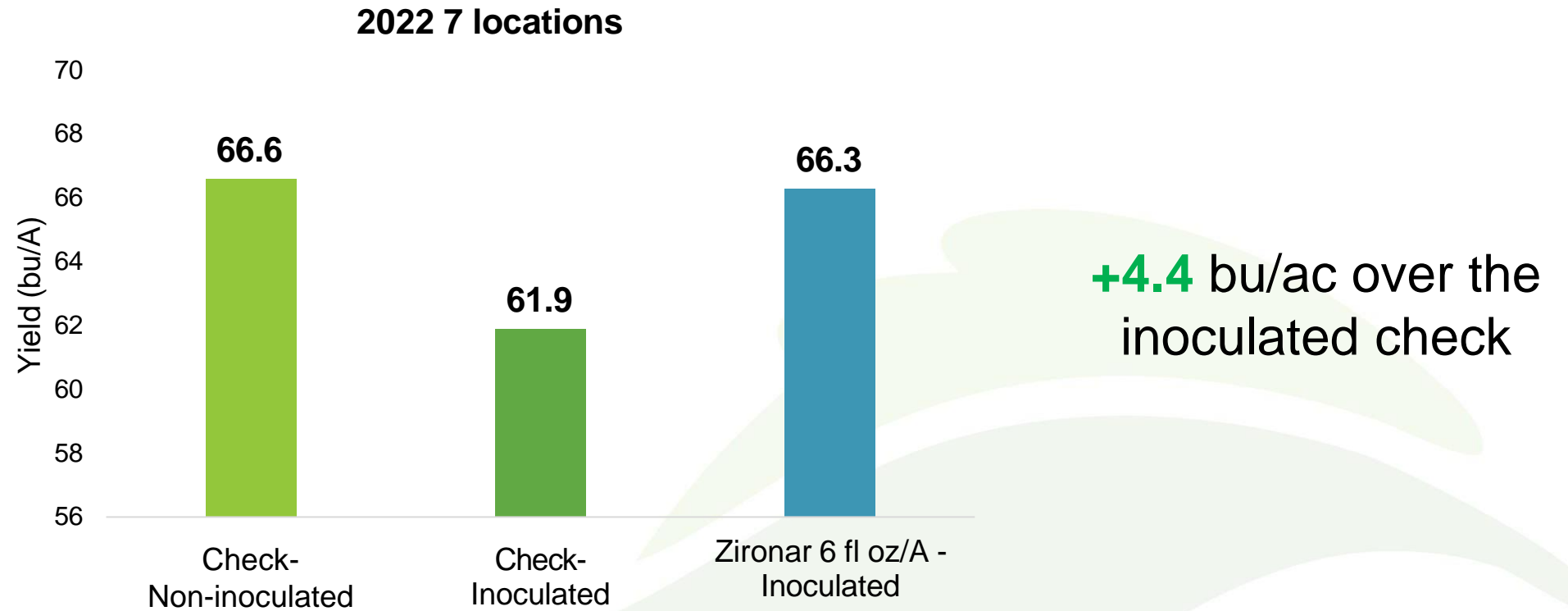
36" Rows: 5.4 oz/A

30" Rows: 6 oz/A

| CROP | EARLY SEASON PROTECTION OF SEEDLINGS AGAINST INJURY FROM | APPLICATION RATE |
|---|---|--|
| Corn Field Corn, Popcorn, Sweet Corn, and Corn grown for seed | Seedling blight caused by <i>Rhizoctonia solani</i> and <i>Fusarium</i> spp. Root Knot Nematode (suppression) Lesion Nematode (suppression) | 6 to 12 fl oz/A Apply in a minimum of 3 gallons of water per acre. |
| Cotton | Seedling blight caused by <i>Rhizoctonia solani</i> and <i>Fusarium</i> spp. Root Knot Nematode (suppression) | 6 to 12 fl oz/A Apply in a minimum of 3 gallons of water per acre. |
| Soybean | Seedling blight caused by <i>Rhizoctonia solani</i> and <i>Fusarium</i> spp. Root Knot Nematode (suppression) Soybean Cyst Nematode (suppression) | 6 to 12 fl oz/A Apply in a minimum of 3 gallons of water per acre. |
| Sugar beet | Seedling blight caused by <i>Rhizoctonia solani</i> and <i>Fusarium</i> spp. Root Knot Nematode (suppression) | 12 fl oz/A Apply in a minimum of 3 gallons of water per acre. |
| Sugarcane | Root Knot Nematode (suppression) Lesion Nematode (suppression) | 6 to 12 fl oz/A Apply in a minimum of 10 gallons of water per acre. |

Soybean Data vs *Rhizoctonia solani*

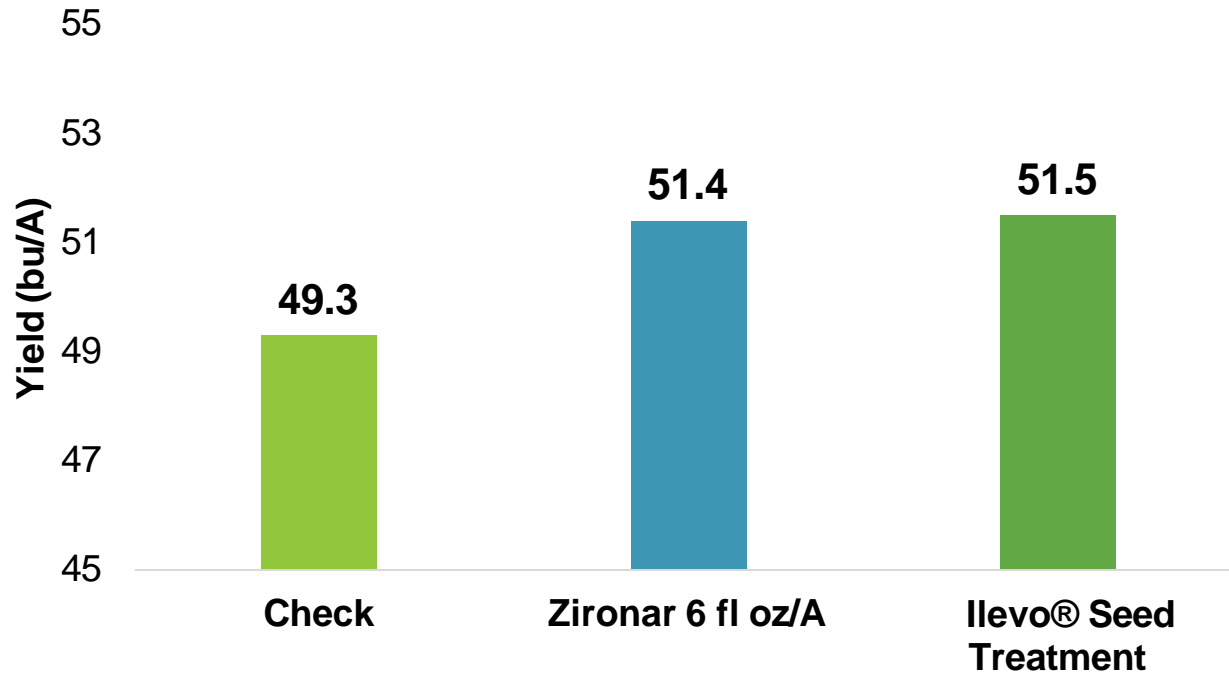
BARE SEED TRIALS with Inoculated Checks



Soybean Data vs Root Knot & Soybean Cyst Nematodes

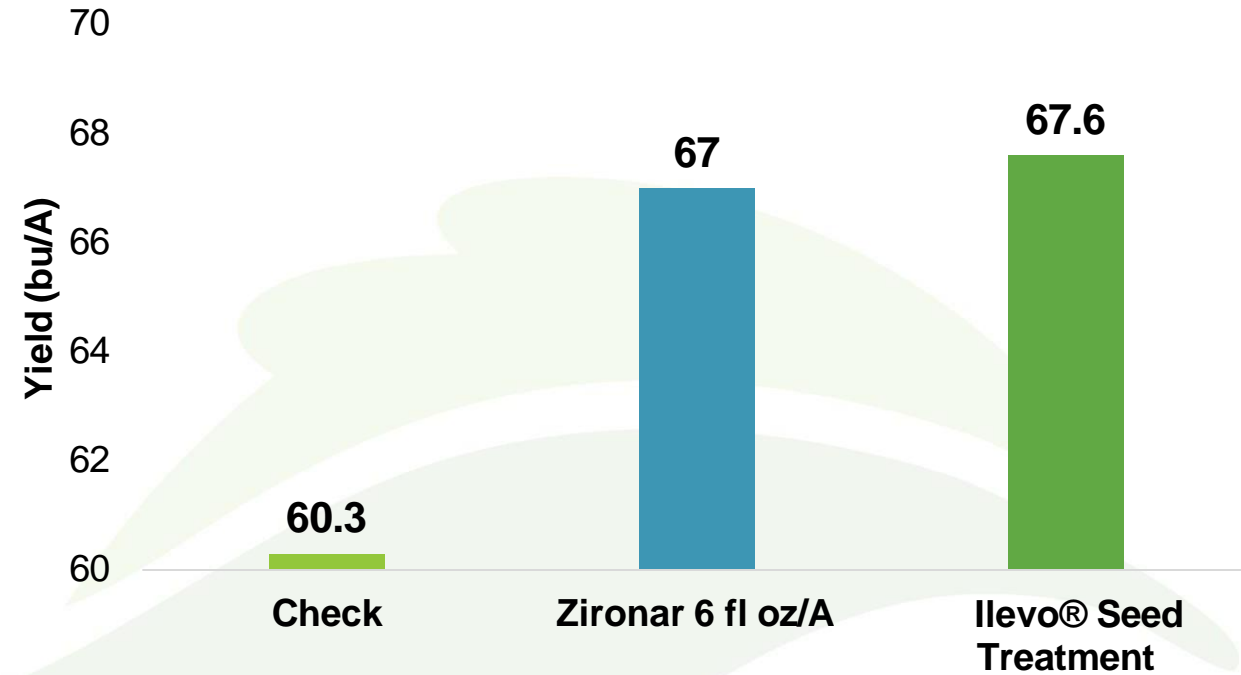
BARE SEED TRIALS

Low Pressure 5 locations



+2.1 bu/ac over the check

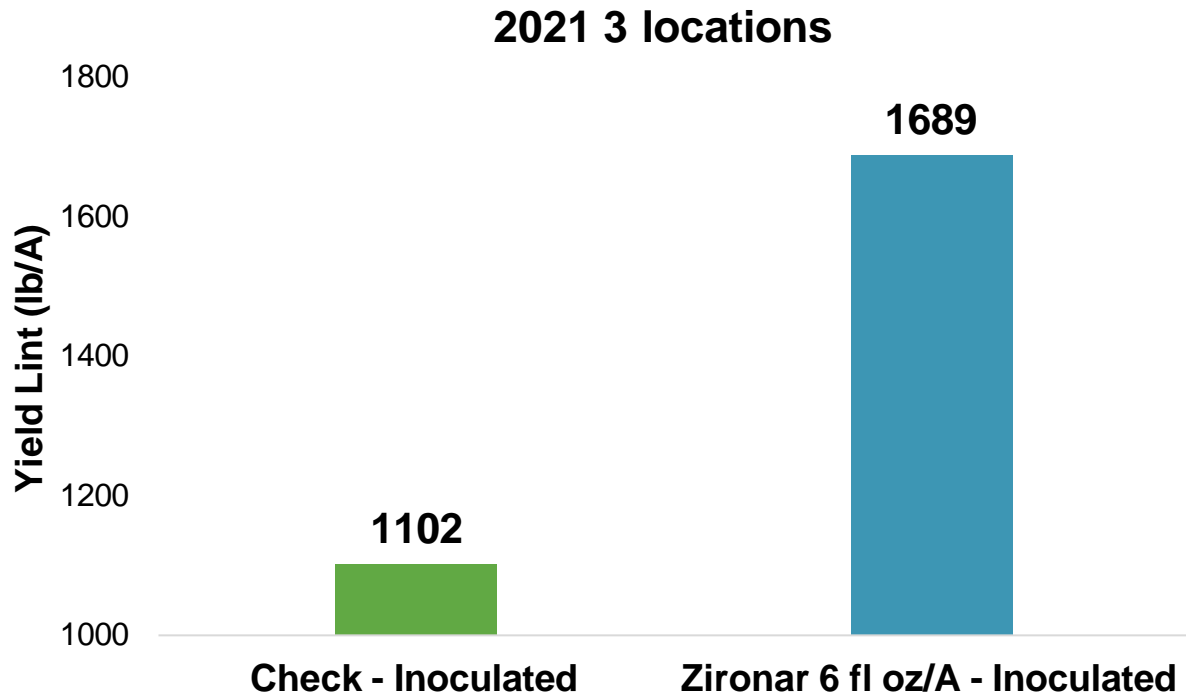
High Pressure 4 locations



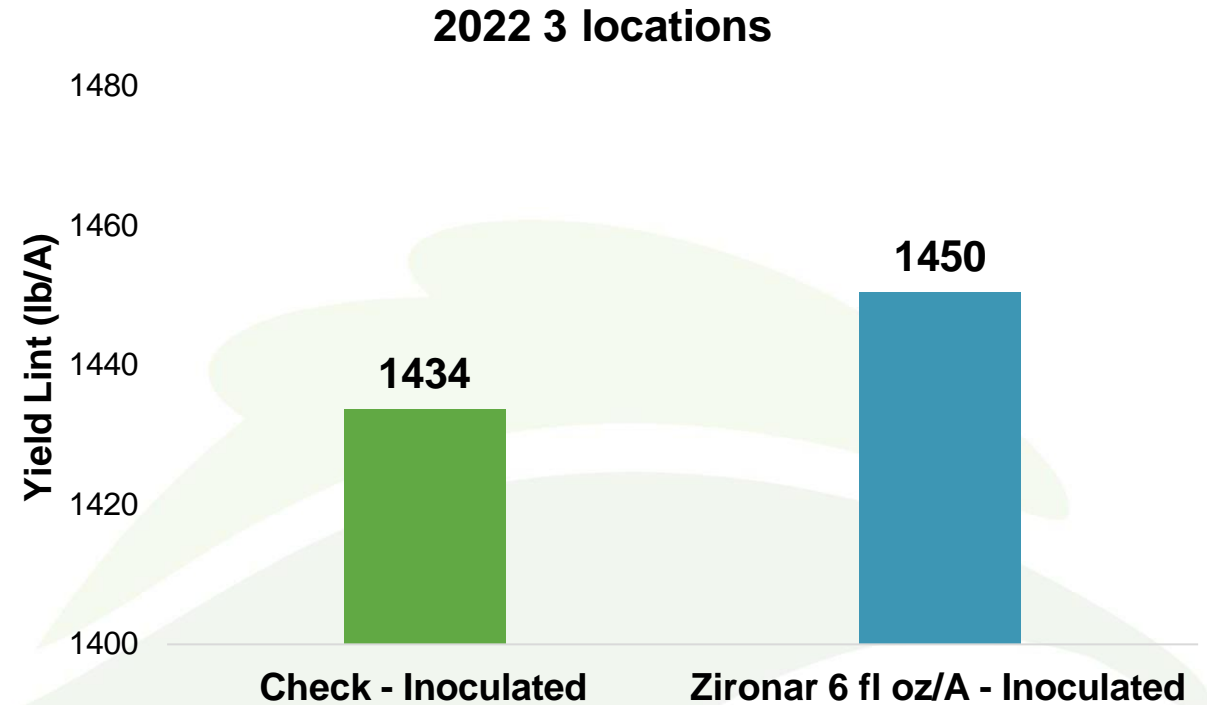
+6.7 bu/ac over the check

Cotton Data vs *Rhizoctonia solani*

BARE SEED TRIALS



+587 lbs/ac over the inoculated check

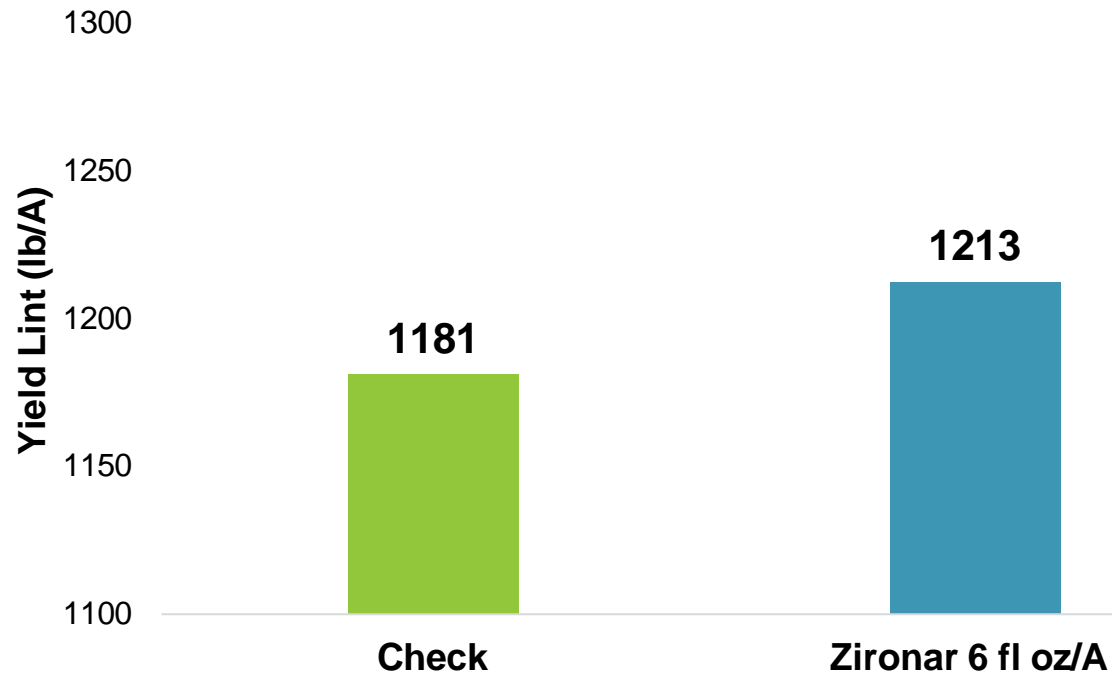


+16 lbs/ac over the inoculated check

Cotton Data vs Southern Root Knot & Reniform Nematodes

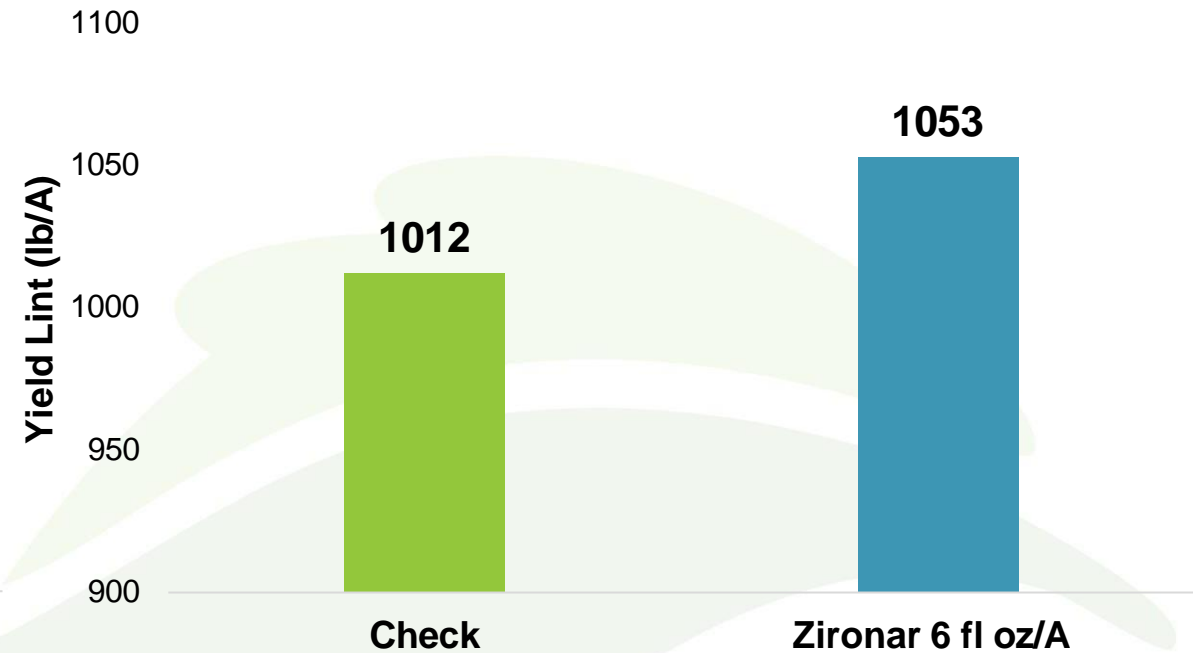
BARE SEED TRIAL

2021 4 locations



+32 lbs/ac over the check

2022 3 locations



+41 lbs/ac over the check

NEW FOR 2023

XYWAY LFR 2EE FOR SIDE-DRESS APPLICATIONS



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What is Xyway LFR?



- Xyway LFR fungicide is applied at corn planting and delivers long lasting disease protection from Northern Corn Leaf Blight, Southern Corn Leaf Blight, and Common Rust.
- Active ingredient in Xyway LFR is **flutriafol**
- LFR Formulation – Liquid Fertilizer Ready
- Apply with starter fertilizer
- Use rates: 12 fl oz/A on 38” row spacing and 15.2 fl oz/A on 30” row spacing



Untreated vs Treated 126 DAA



Untreated



Xyway LFR @ 12 oz/A

How to Apply Xyway LFR



- Do not apply in-furrow- avoid direct contact with the seed
- Apply 0.5” to 4” away from the seed
- Maintain good tank agitation

EXAMPLES OF XYWAY™ LFR FUNGICIDE APPLICATION METHODS

****This is not a complete list of acceptable application methods.****



2x2, 2x2x2



Precision Planting Furrow Jet
(Turn off center stream)

****This Xyway LFR fungicide recommendation is made as permitted under FIFRA Section 2(ee) for 2x2 placement at-plant in corn (field, corn grown for seed, popcorn and sweet corn) in all registered states except Texas. This recommendation has not been submitted to or approved by the EPA. The 2(ee) expiration date is 12/31/2025.**

NEW FOR 2023: Xyway LFR Fungicide 2EE for Side Dress Applications



- Apply with side dress applicator up to 6” away from the plant through V4
- Application should be made with rate controller systems using a hydraulic centrifugal pump with a return line providing tank agitation
- Ensure proper agitation
- Do not use with ground drive piston pump



**This Xyway LFR fungicide recommendation is made as permitted under FIFRA Section 2(ee) for 2x2 placement at-plant in corn (field, corn grown for seed, popcorn and sweet corn) in all registered states except Texas. This recommendation has not been submitted to or approved by the EPA. The 2(ee) expiration date is 12/31/2025.

- **Three Fall Residual Herbicide Options from FMC**
 - Anthem Flex- pyroxasulfone and carfentrazone
 - Anthem Maxx- pyroxasulfone and fluthiacet-methyl
 - Command 3ME (FIFRA 24(c))
- **Recommend tank mixing with flumioxazin and paraquat**
- **Target application date of late November**



Anthem Flex Fall Applications

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ANTHEM[®]
FLEX
HERBICIDE



John Lee
3/8/2022

Location: Catahoula Parish, LA

4 fl. oz./A Anthem[®] Flex herbicide
+
2.5 oz./A flumioxazin herbicide
+
32 fl. oz./A paraquat herbicide

Application Date: 11/22/21

Photo: 105 days after application

Fall Fallow Ryegrass Management FIFRA 24(c) SLN for AR, LA, MS



16 fl. oz./A Command® 3ME herbicide
+
2 oz./A flumioxazin herbicide
+
32 fl. oz./A of paraquat herbicide

Application Date: early. Nov. 2021
Photo: Feb 9, 2022
~93 days after application



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ADVANCING *CHEMISTRY* *TO ADVANCE* AGRICULTURE

Thank you!

Elevest™ insect control, Besiege insecticide, Brigade 2EC insecticide/miticide, Warrior II with Zeon Technology, Enlist, Tavium , XtendiMAX, VaproGrip FeXapan, and Engenia are Restricted Use Pesticides.

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