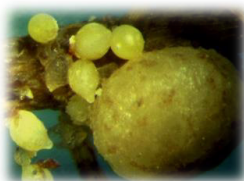
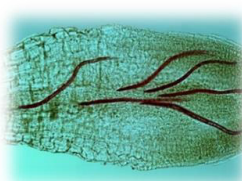




BIOST® Nemacide 100 is an innovative broad spectrum seed treatment nematicide for soybeans with activity on Soybean Cyst, Root-knot and Reniform nematodes



Soybean Cyst



Root-knot



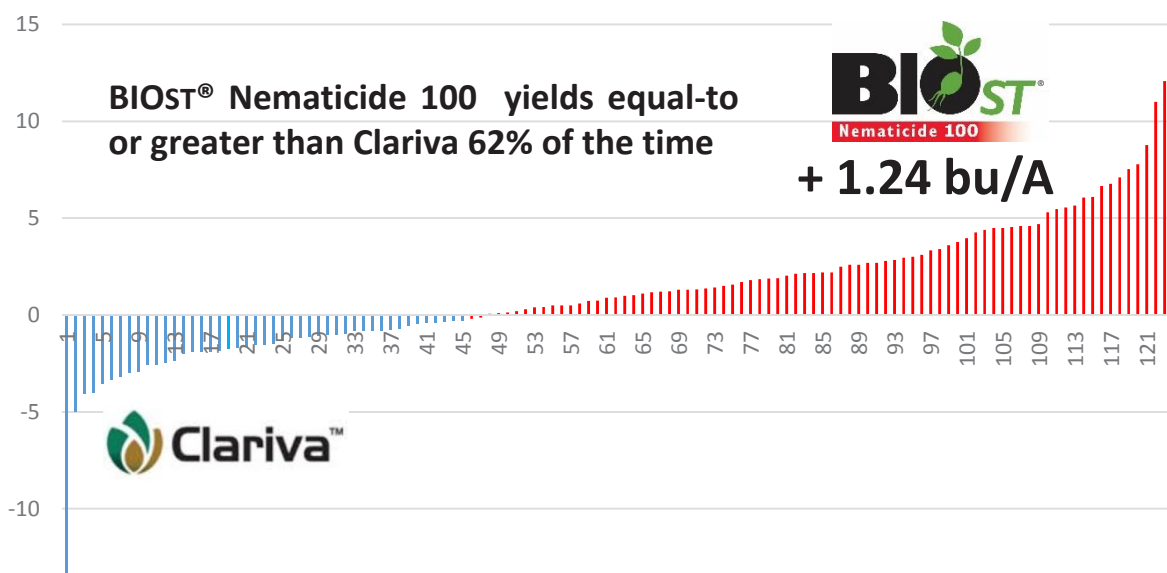
Reniform

### What is BIOST® Nemacide 100?

- It is a seed treatment nematicide that kills nematodes within 24 to 48 hours
- It has activity on eggs and juveniles of the most important nematodes in soybeans - Soybean Cyst, Root-knot and Reniform nematodes
- BIOST® Nemacide 100 is a Bio-Nematicide derived from heat-killed *Burkholderia rinojensis* and its spent fermentation media – **non-living**
- It is a nematicide with multiple modes of action via enzymes and toxins
- It is a concentrated liquid formulation with 3 year shelf-life stability
- **Use rate on soybeans – 3 fl oz/cwt**
- It also provides additional protection on soil dwelling insects (wireworms/seed corn maggot)

## Proven Field Performance (Yield Data)

### 124 SCN Field Trials (bu/A)



- Field Sites were identified as having a history of Soybean Cyst Nematodes (SCN)
- University and contract research field trials - 124 trials in 12 soybean growing states in 2016-2017

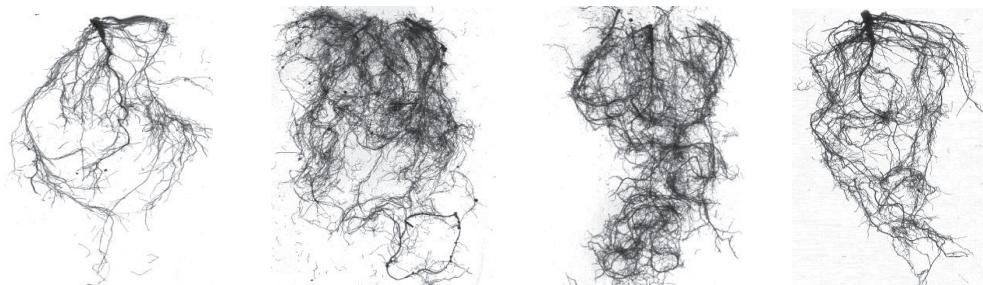


**BIOST® Nemacide 100 is a broad spectrum nematicide**

## Proven Technology Supported by Science

### Ph.D. Graduate Student Research - Mississippi State University

#### Roots challenged with Soybean Cyst Nematode for 60 Days



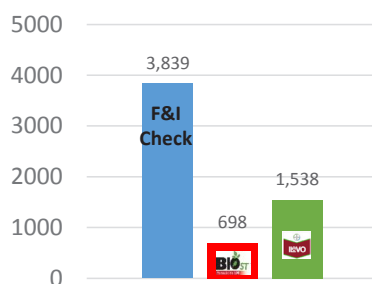
F&I Control	BIOST® Nematicide 100	Avicta	Clariva
2.5394 a Surface Area	5.1814 c	4.0648 bc	2.9818 ab
226.6175 a Root Volume	490.3604 c	315.7823 b	322.2248 b
7086.6 a Root Tips	36472 d	14391.6 b	25216.4 c

- BIOST® Nematicide improves root health by significantly increasing root volume, surface area and the number of root-tips over roots protected with Avicta® and Clariva®

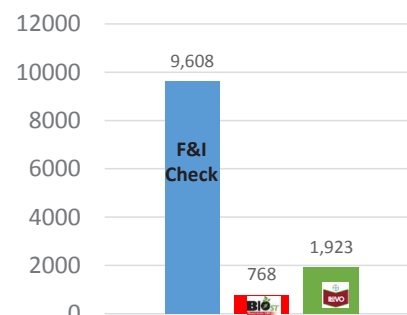
- Similar letters indicate no significant differences between treatments - (alpha = 0.10)

- BIOST® Nematicide 100 was 3 times more effective on reducing Soybean Cyst and Root-knot Nematodes per gram of root than ILeVo® used at commercial nematicide rates

#### # of Root-knot nematodes per gram of root



#### # of SCN nematodes per gram of root



## Southern Illinois University

### 2017 SCN trial



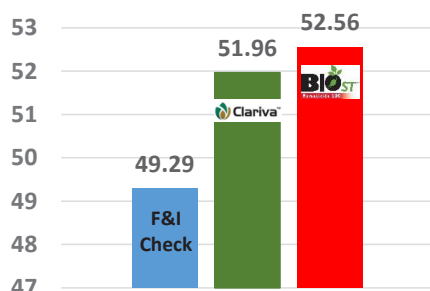
41.28 bu/A



42.58 bu/A



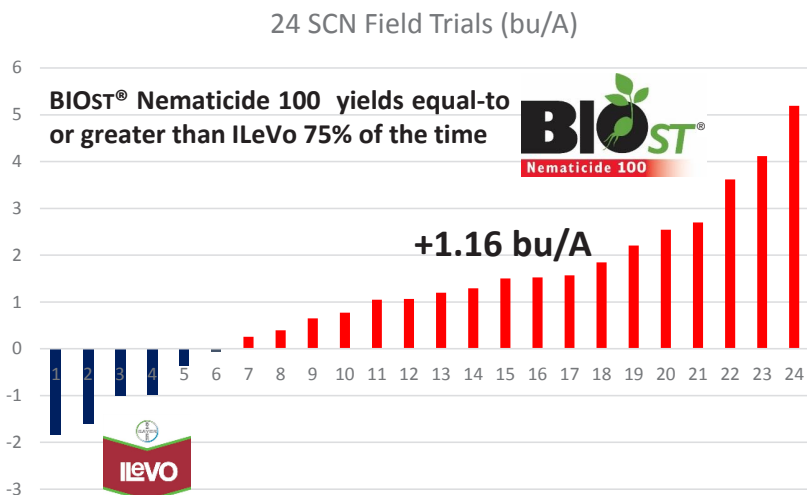
Dr. Jason Bond - SIU trials  
(2016/2017)



- BIOST® Nematicide blends out yields the F&I Check by 3.27 bu/A (graph)

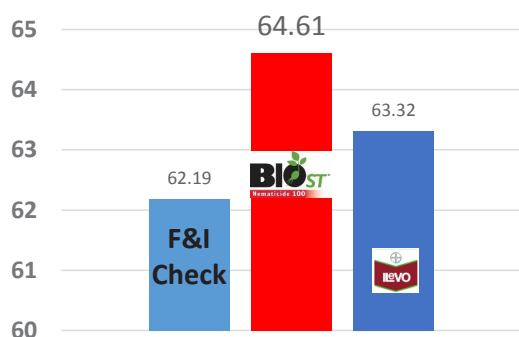
- In 2017, BIOST® Nematicide blends out yield ILeVo® by 1.3 bu/A (pictures)

## Proven Field Performance (Yield Data)



- Field Sites were identified as having a history of Soybean Cyst Nematodes (SCN)
- University and contract research field trials - 24 trials in 8 soybean growing states in 2016-2017

## Iowa State University – Dr. Greg Tylka

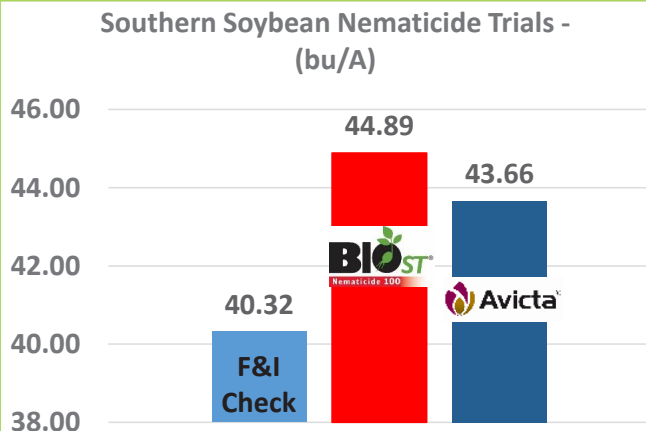


- In 2017, BIOST® Nematicide blends out yields IleVo® by an average of 1.29 bu/A in 3 trials conducted in IA



- In 2017, BIOST® Nematicide blends out yields Clariva® by 3.77 bu/A –Ames IA (ISU)

## Root-knot and Reniform Protection – Southern U.S.

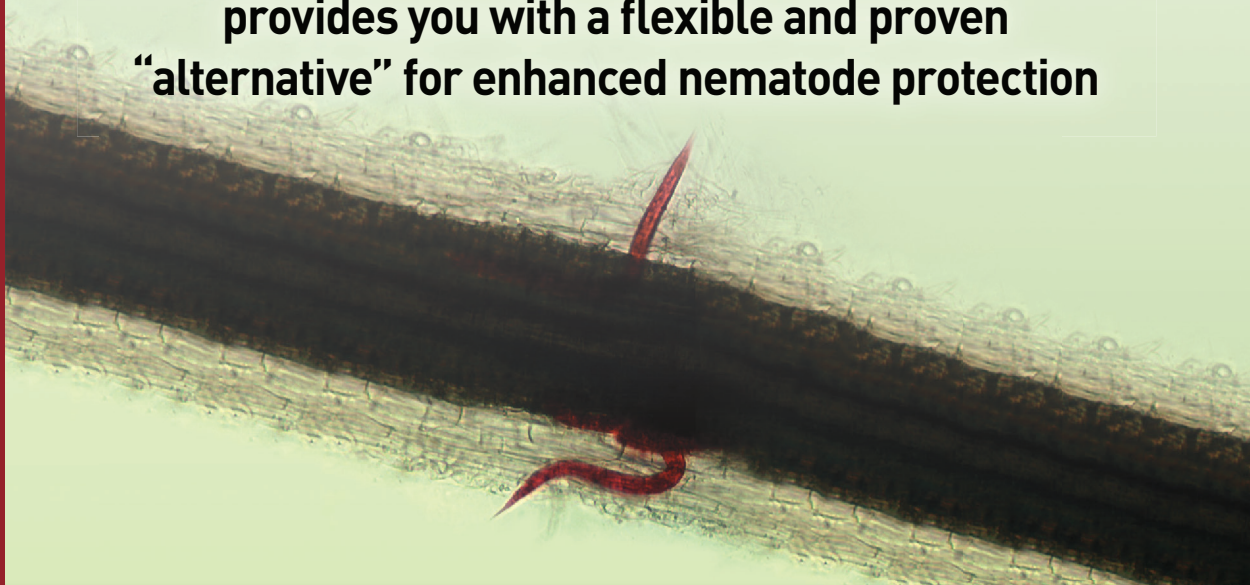


- In 2017, BIOST® Nematicide blends out yields Avicta® by an average of 1.23 bu/A in 6 trials conducted in AR,MS,AL,NC,VA and LA



# WHAT ALTERNATIVES DO YOU HAVE FOR FIGHTING NEMATODES IN YOUR SOYBEANS?

**Albaugh's BIOst® Nematicide 100 seed treatment  
provides you with a flexible and proven  
“alternative” for enhanced nematode protection**



## **Albaugh's Goal is to Deliver Value:**

1. BIOst® Nematicide 100 averages a 3.2 bu/acre increase over the fungicide and insecticide seed treatment control.
2. BIOst® Nematicide 100 provides nematode protection against the most important nematodes in soybeans, not just Soybean Cyst Nematode.
3. University studies indicate that BIOst® Nematicide 100 provides better control of nematode eggs and juveniles than competitive seed treatment nematicides.
4. OMRI certified product and does not require a closed system for seed treatment application.

For more information on the BIOst® Nematicide 100 contact a member of the Albaugh Seed Treatment Technology Team. Jay Stroh @ [Jays@albaughllc.com](mailto:Jays@albaughllc.com), David Winston @ [Davidw@albaughllc.com](mailto:Davidw@albaughllc.com) or Lee Stewart @ [Lees@albaughllc.com](mailto:Lees@albaughllc.com)

Refer to the product label for complete directions and instructions. BIOst® is a registered trademark of Albaugh, LLC.