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

Proven Field Performance (Yield Data)

124 SCN Field Trials (bu/A)

BIOst® Nematicide 100 yields equal-to or greater than Clariva 62% of the time + 1.24 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® Nematicide 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

<table>
<thead>
<tr>
<th></th>
<th>F&amp;I Control</th>
<th>BIOSt® Nematicide 100</th>
<th>Avicta</th>
<th>Clariva</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Area</td>
<td>5.1814 c</td>
<td>4.0848 bc</td>
<td>2.9818 ab</td>
<td>2.3918 ab</td>
</tr>
<tr>
<td>Root Volume</td>
<td>490.3004 c</td>
<td>315.7923 b</td>
<td>122.2248 b</td>
<td>135.9016 c</td>
</tr>
<tr>
<td>Root Tips</td>
<td>16472 d</td>
<td>14911.6 b</td>
<td>25216.4 c</td>
<td>25216.4 c</td>
</tr>
</tbody>
</table>

- 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)

**Southern Illinois University**

2017 SCN trial

- 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)

**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

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

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

**Proven Field Performance (Yield Data)**

- 24 SCN Field Trials (bu/A)

- BIOSt® Nematicide 100 yields equal to or greater than ILeVo 75% of the time

- +1.16 bu/A

**Southern Soybean Nematicide Trials - (bu/A)**

- 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

**Proven Field Performance**

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

- +1.16 bu/A

**Southern Soybean Nematicide Trials - (bu/A)**

- 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
Proven Technology Supported by Science

Ph.D. Graduate Student Research - Mississippi State University

Roots challenged with Soybean Cyst Nematode for 60 Days

<table>
<thead>
<tr>
<th>Nematicide</th>
<th>Root Volume</th>
<th>Root Tips</th>
</tr>
</thead>
<tbody>
<tr>
<td>F&amp;I Control</td>
<td>2,530,4 a</td>
<td>5,184 c</td>
</tr>
<tr>
<td>BIOSt® Nematicide 100</td>
<td>1,906,4 b</td>
<td>3,682 c</td>
</tr>
<tr>
<td>Avicta</td>
<td>1,502,8 b</td>
<td>2,852 c</td>
</tr>
<tr>
<td>Clariva</td>
<td>1,502,8 b</td>
<td>2,852 c</td>
</tr>
</tbody>
</table>

- 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 among treatments (alpha = 0.05).

Iowa State University – Dr. Greg Tylka

In 2017, BIOst® Nematicide blends out yields Clariva® by 3.77 bushels per acre in 12 trials conducted in IA (GU)

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

2017 SCN trial

- BIOSt® Nematicide blends out yields the F&I Check by 3.27 bushels per acre (graphs)
- In 2017, BIOSt® Nematicide blends out yield ILeVo® by 1.3 bushels per acre (pictures)

Southern Soybean Nematicide Trials - (bu/A)

- In 2017, BIOSt® Nematicide blends out yields Avicta® by an average of 1.23 bushels per acre in 6 trials conducted in AR, MS, LA, NC, WI, and IA

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

Southern Illinois University

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

- BIOSt® Nematicide blends out yields the F&I Check by 3.27 bushels per acre (graphs)
- In 2017, BIOSt® Nematicide blends out yield ILeVo® by 1.3 bushels per acre (pictures)
WHO 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. DMRI certified product and does not require a closed system for seed treatment application

Proven Field Performance (Yield Data)

124 SCN Field Trials (bu/A)

<table>
<thead>
<tr>
<th>Year</th>
<th>BIOst® Nematicide 100</th>
<th>Clariva</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>12.9</td>
<td>10.5</td>
<td>+ 2.4 bu/A</td>
</tr>
<tr>
<td>2017</td>
<td>12.8</td>
<td>10.4</td>
<td>+ 2.4 bu/A</td>
</tr>
<tr>
<td>2017</td>
<td>12.7</td>
<td>10.3</td>
<td>+ 2.4 bu/A</td>
</tr>
<tr>
<td>2017</td>
<td>12.6</td>
<td>10.2</td>
<td>+ 2.4 bu/A</td>
</tr>
<tr>
<td>2017</td>
<td>12.3</td>
<td>10.0</td>
<td>+ 2.3 bu/A</td>
</tr>
<tr>
<td>2017</td>
<td>12.1</td>
<td>9.8</td>
<td>+ 2.3 bu/A</td>
</tr>
<tr>
<td>2017</td>
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<td>9.6</td>
<td>+ 2.3 bu/A</td>
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- 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