FIELD EXPERIMENT HISTORY

Title: Corn Inoculant Trial

Experiment: 08 Corn Inoculant Trial  
Trial ID: 2676  
Year: 2005

Personnel: J. G. Lauer, K.D.Kohn and P.J. Flannery

Location: Arlington, WI  
County: Columbia

Supported By: Brett-Young Seeds Limited

Site Information

Field: ARS428  
Previous Crop: Soybean  
Soil Type: Plano Silt Loam

Soil Test: Date: 10/15/05  
pH 6.6  
OM (%) 3.6  
P (ppm) 65  
K (ppm) 130

Plot Management

Tillage Operations: Chisel Plow  
Field Cultivator: N/A  
Soil Finisher: N/A

Fertilizer:  
Preplant Analysis: 46-0-0  
Rate lbs/A: 325  
Date: 4/14/05

Starter Analysis: 9-24-24  
Rate lbs/A: 150  
Date: 4/28/05

Post plant Analysis: N/A  
Rate lbs/A: N/A  
Date: N/A

Manure: N/A

Herbicide:  
Outlook 20 oz/A (4/22/05)  
Insecticide: N/A

Hornet 4.0 oz/A (4/22/05)  
Hybrid: Dekalb DKC53-34

Callisto 3.0 oz/A (6/02/05)

Irrigation: None

Planting Date: 4/28/05  
Planting Depth: 1.5"  
Row Width: 30"

Target Plant Density: 30000 plants per acre  
Planting Method: Kinze Plot Planter

Harvest Date: 10/10/05  
Harvest Method: Massey Ferguson 8XP

Notes: Seed treated with Apron XL and Maxim

Experimental Design

Design: RCB  
Replications: 3

Plot Size Seeded: 5' x 25'  
Experiment Size: 0.99 Acre

Harvest Plot Size: 5' x 22'  
Harvest Plant Density: 30551 plants per acre

Treatments (Inoculant):

CORN01
CORN02
Untreated Check

Results: Table C-48.
Table C-48. Performance of corn inoculants.

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield</th>
<th>Moisture</th>
<th>Test Weight</th>
<th>Lodging</th>
<th>Return</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>bu/A</td>
<td>%</td>
<td>lbs/bu</td>
<td>%</td>
<td>$/A</td>
</tr>
<tr>
<td>CORN01</td>
<td>211</td>
<td>20.9</td>
<td>57</td>
<td>2</td>
<td>321</td>
</tr>
<tr>
<td>CORN02</td>
<td>198</td>
<td>20.8</td>
<td>57</td>
<td>9</td>
<td>301</td>
</tr>
<tr>
<td>Untreated Check</td>
<td>231</td>
<td>21.4</td>
<td>57</td>
<td>5</td>
<td>349</td>
</tr>
<tr>
<td>Mean</td>
<td>214</td>
<td>21.1</td>
<td>57</td>
<td>6</td>
<td>324</td>
</tr>
</tbody>
</table>

**Probability(%)**
- Treatment: 12.7 87.8 88.5 31.1 11.3

**LSD (0.10)**
- Treatment: NS NS NS NS NS

**CV(%)**
- 7 7 2 90 6
FIELD EXPERIMENT HISTORY

Title: Corn Inoculant Trial
Experiment: 08 Corn Inoculant Trial  Trial ID: 2679  Year: 2005
Personnel: J. G. Lauer, K.D.Kohn and P.J. Flannery
Location: Fond du Lac, WI  County: Fond du Lac
Supported By: Brett-Young Seeds Limited

Site Information
Field:  Previous Crop: Soybean  Soil Type: Vrgil Silt Loam
Soil Test:  Date: 10/01/04  pH 6.9  OM (%) 3.6  P (ppm) 38  K (ppm) 127

Plot Management
Tillage Operations:  Field Cultivator  Cultivated 6/14/05
Fertilizer:  Preplant Analysis: 28-0-0  Rate lbs/A: 421  Date: N/A
Starter Analysis: 9-24-24  Rate lbs/A: 150  Date: 4/29/05
Post plant Analysis: N/A  Rate lbs/A: N/A  Date: N/A
Manure: N/A
Herbicide: Basis 0.33 oz/A  Insecticide: N/A
Lumax 2.5 qt/A
Irrigation: None
Planting Date: 4/29/05  Planting Depth: 1.5"  Row Width 30"
Target Plant Density: 30000 plants per acre  Planting Method: Kinze Plot Planter
Harvest Date: 10/17/05  Harvest Method: Massey Ferguson 8XP
Notes: Seed treated with Apron XL and Maxim

Experimental Design
Design: RCB  Replications: 3
Plot Size Seeded: 5' x 25'  Experiment Size: 0.92 Acre
Harvest Plot Size: 5' x 22'  Harvest Plant Density: 30136 plants per acre

Treatments (Inoculant):
CORN01
CORN02
Untreated Check

Results: Table C-49.
Table C-49. Performance of corn inoculants.  
Fond du Lac, WI.-2005.

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield</th>
<th>Moisture</th>
<th>Test Weight</th>
<th>Lodging</th>
<th>*Grower Return</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>bu/A</td>
<td>%</td>
<td>lbs/bu</td>
<td>%</td>
<td>$/A</td>
</tr>
<tr>
<td>CORN01</td>
<td>205</td>
<td>20.8</td>
<td>58</td>
<td>0</td>
<td>313</td>
</tr>
<tr>
<td>CORN02</td>
<td>207</td>
<td>21.0</td>
<td>58</td>
<td>0</td>
<td>315</td>
</tr>
<tr>
<td>Untreated Check</td>
<td>200</td>
<td>21.8</td>
<td>57</td>
<td>0</td>
<td>300</td>
</tr>
<tr>
<td>Mean</td>
<td>204</td>
<td>21.2</td>
<td>58</td>
<td>0</td>
<td>309</td>
</tr>
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</table>

**Probability(%)**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield</th>
<th>Moisture</th>
<th>Test Weight</th>
<th>Lodging</th>
<th>*Grower Return</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>47.5 2.4 18.5 - 28.5</td>
</tr>
</tbody>
</table>

**LSD (0.10)**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield</th>
<th>Moisture</th>
<th>Test Weight</th>
<th>Lodging</th>
<th>*Grower Return</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NS 0.5 NS - NS</td>
</tr>
</tbody>
</table>

**CV(%)**

<table>
<thead>
<tr>
<th></th>
<th>Yield</th>
<th>Moisture</th>
<th>Test Weight</th>
<th>Lodging</th>
<th>*Grower Return</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>3</td>
</tr>
</tbody>
</table>
FIELD EXPERIMENT HISTORY

Title: Corn Inoculant Trial
Experiment: 08 Corn Inoculant Trial  Trial ID: 2680  Year: 2005
Personnel: J. G. Lauer, K.D.Kohn and P.J. Flannery
Location: Galesville, WI  County: Trempeleau
Supported By: Brett-Young Seeds Limited

Site Information
Field:  Previous Crop: Soybean  Soil Type: Downs Silt Loam
Soil Test:  Date: 10/01/04  pH 6.1  OM (%) 3.8  P (ppm) 68  K (ppm) 229

Plot Management
Tillage Operations: Zone-Builder  Cultivated 6/16/05
Fertilizer:  Preplant Analysis: 46-0-0, 21-0-0  Rate lbs/A: 217, 238  Date: N/A
Starter Analysis: 9-24-24  Rate lbs/A: 150  Date: 5/02/05
Post plant Analysis: N/A  Rate lbs/A: N/A  Date: N/A
Herbicide:  Cinch 2.0 pt/A  Insecticide: N/A
Callisto 3.0 oz/A
Hybrid: Dekalb DKC53-34
Irrigation: None
Planting Date: 5/02/05  Planting Depth: 1.5"  Row Width 30"
Target Plant Density: 30000 plants per acre  Planting Method: Kinze Plot Planter
Harvest Date: 10/14/05  Harvest Method: Massey Ferguson 8XP
Notes: Seed treated with Apron XL and Maxim

Experimental Design
Design: RCB  Replications: 3
Plot Size Seeded: 5' x 25'  Experiment Size: 0.95 Acre
Harvest Plot Size: 5' x 22'  Harvest Plant Density: 30254 plants per acre

Treatments (Inoculant):
CORN01
CORN02
Untreated Check

Results: Table C-50.
### Table C-50. Performance of corn inoculants.  
**Galesville, WI.-2005.**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield</th>
<th>Moisture</th>
<th>Test Weight</th>
<th>Lodging</th>
<th>*Grower Return</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>bu/A</td>
<td>%</td>
<td>lbs/bu</td>
<td>%</td>
<td>$/A</td>
</tr>
<tr>
<td>CORN01</td>
<td>240</td>
<td>23.1</td>
<td>54</td>
<td>1</td>
<td>355</td>
</tr>
<tr>
<td>CORN02</td>
<td>243</td>
<td>22.4</td>
<td>54</td>
<td>2</td>
<td>363</td>
</tr>
<tr>
<td>Untreated Check</td>
<td>243</td>
<td>22.7</td>
<td>53</td>
<td>1</td>
<td>361</td>
</tr>
<tr>
<td>Mean</td>
<td>242</td>
<td>22.7</td>
<td>54</td>
<td>1</td>
<td>359</td>
</tr>
</tbody>
</table>

**Probability(%)**
- Treatment 91.4 58.6 74.5 76.6 81.7

**LSD (0.10)**
- Treatment NS NS NS NS NS

**CV(%)**
- 4 4 2 108 4
FIELD EXPERIMENT HISTORY

Title: Corn Inoculant Trial
Experiment: 08 Corn Inoculant Trial
Trial ID: 2681
Year: 2005
Personnel: J. G. Lauer, K.D.Kohn and P.J. Flannery
Location: Hancock, WI
County: Waushara
Supported By: Brett-Young Seeds Limited

---

Site Information
Field: K18
Previous Crop: Soybean
Soil Type: Plainfield Sand
Soil Test: Date: 10/15/05
pH: 6.9
OM (%): 0.9
P (ppm): 99
K (ppm): 67

---

Plot Management
Tillage Operations: Moldboard Plow
Disk
Fertilizer:
Preplant Analysis: 28-0-0
Rate lbs/A: 842
Date: N/A
Starter Analysis: 9-24-24
Rate lbs/A: 150
Date: 4/21/05
Post plant Analysis: N/A
Rate lbs/A: N/A
Date: N/A
Manure: N/A

Herbicide:
Define 16 oz/A
Atrazine 0.75 lb/A

Insecticide: N/A
Herbicide: N/A
Hybrid: Dekalb DKC53-34

Irrigation: 13.4"

Planting Date: 4/21/05
Planting Depth: 1.5"
Row Width: 30"

Target Plant Density: 30000 plants per acre

Harvest Date: 10/06/05

Harvest Method: Massey Ferguson 8XP

Notes: Seed treated with Apron XL and Maxim

---

Experimental Design
Design: RCB
Replications: 3
Plot Size Seeded: 5' x 25'
Experiment Size: 1.01 Acre
Harvest Plot Size: 5' x 22'
Harvest Plant Density: 30116 plants per acre

---

Treatments (Inoculant):
CORN01
CORN02
Untreated Check

---

Results: Table C-51.
Table C-51. Performance of corn inoculants.
Hancock, WI.-2005.

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield (bu/A)</th>
<th>Moisture (%)</th>
<th>Test Weight (lbs/bu)</th>
<th>Lodging (%)</th>
<th>*Grower Return ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORN01</td>
<td>240</td>
<td>23.8</td>
<td>55</td>
<td>0</td>
<td>352</td>
</tr>
<tr>
<td>CORN02</td>
<td>248</td>
<td>23.2</td>
<td>54</td>
<td>0</td>
<td>367</td>
</tr>
<tr>
<td>Mean</td>
<td>244</td>
<td>23.5</td>
<td>54</td>
<td>0</td>
<td>360</td>
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</table>

**Probability(%)**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Probability (%)</th>
<th>Moisture (%)</th>
<th>Test Weight (%)</th>
<th>Lodging (%)</th>
<th>Return ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment</td>
<td>62.2</td>
<td>25.4</td>
<td>55.7</td>
<td>-</td>
<td>57.1</td>
</tr>
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</table>

**LSD (0.10)**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>LSD</th>
<th>LSD</th>
<th>LSD</th>
<th>LSD</th>
<th>LSD</th>
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<tbody>
<tr>
<td>Treatment</td>
<td>NS</td>
<td>NS</td>
<td>NS</td>
<td>NS</td>
<td>NS</td>
</tr>
</tbody>
</table>

**CV(%)**

<table>
<thead>
<tr>
<th></th>
<th>CV</th>
<th>CV</th>
<th>CV</th>
<th>CV</th>
<th>CV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>8</td>
</tr>
</tbody>
</table>
FIELD EXPERIMENT HISTORY

Title: Corn Inoculant Trial
Experiment: 08 Corn Inoculant Trial Trial ID: 2677 Year: 2005
Personnel: J. G. Lauer, K.D.Kohn and P.J. Flannery
Location: Janesville, WI County: Rock
Supported By: Brett-Young Seeds Limited

Site Information
Field: Previous Crop: Soybean Soil Type: Plano Silt Loam
Soil Test: Date: 10/01/04 pH 6.7 OM (%) 3.3 P (ppm) 62 K (ppm) 188

Plot Management
Tillage Operations: Fall Chisel Plow Field Cultivator Cultivated 6/13/05
Fertilizer:
- Preplant Analysis: 28-0-0 Rate lbs/A: 572 Date: N/A
- Starter Analysis: 9-24-24 Rate lbs/A: 150 Date: 4/25/05
- Post plant Analysis: N/A Rate lbs/A: N/A Date: N/A
- Manure: N/A
Herbicide:
- Dual II 1.8 pt/A
- Hornet 4.0 oz/A
- Steadfast 0.75 oz/A
- Callisto 3.0 oz/A
- Atrazine 0.75 lb/A
Insecticide:
- Force 3G 4.4 lbs/A
Hybrid: Dekalb DKC53-34
Irrigation: None
Planting Date: 4/25/05 Planting Depth: 1.5" Row Width 30"
Target Plant Density: 30000 plants per acre Planting Method: Kinze Plot Planter
Harvest Date: 10/03/05 Harvest Method: Massey Ferguson 8XP
Notes: Seed treated with Apron XL and Maxim

Experimental Design
Design: RCB Replications: 3
Plot Size Seeded: 5' x 25' Experiment Size: 0.93
Harvest Plot Size: 5' x 22' Harvest Plant Density: 30195 plants per acre

Treatments (Inoculant):
- CORN01
- CORN02
- Untreated Check

Results: Table C-52.
Table C-52. Performance of corn inoculants.  
Janesville, WI.-2005.

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield</th>
<th>Moisture</th>
<th>Test Weight</th>
<th>Lodging</th>
<th>*Grower Return</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>bu/A</td>
<td>%</td>
<td>lbs/bu</td>
<td>%</td>
<td>$/A</td>
</tr>
<tr>
<td>CORN01</td>
<td>209</td>
<td>21.4</td>
<td>58</td>
<td>0</td>
<td>316</td>
</tr>
<tr>
<td>CORN02</td>
<td>206</td>
<td>21.1</td>
<td>58</td>
<td>0</td>
<td>313</td>
</tr>
<tr>
<td>Untreated Check</td>
<td>191</td>
<td>20.4</td>
<td>58</td>
<td>0</td>
<td>293</td>
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<tr>
<td>Mean</td>
<td>202</td>
<td>21.0</td>
<td>58</td>
<td>0</td>
<td>307</td>
</tr>
</tbody>
</table>

**Probability(%)**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield</th>
<th>Moisture</th>
<th>Test Weight</th>
<th>Lodging</th>
<th>*Grower Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment</td>
<td>11.8</td>
<td>23.9</td>
<td>99.9</td>
<td>44.4</td>
<td>16.2</td>
</tr>
</tbody>
</table>

**LSD (0.10)**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield</th>
<th>Moisture</th>
<th>Test Weight</th>
<th>Lodging</th>
<th>*Grower Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment</td>
<td>NS</td>
<td>NS</td>
<td>NS</td>
<td>NS</td>
<td>NS</td>
</tr>
</tbody>
</table>

**CV(%)**

<table>
<thead>
<tr>
<th></th>
<th>Yield</th>
<th>Moisture</th>
<th>Test Weight</th>
<th>Lodging</th>
<th>*Grower Return</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>300</td>
<td>4</td>
</tr>
</tbody>
</table>
FIELD EXPERIMENT HISTORY

Title: Corn Inoculant Trial
Experiment: 08 Corn Inoculant Trial  Trial ID: 2678  Year: 2005
Personnel: J. G. Lauer, K.D.Kohn and P.J. Flannery
Location: Lancaster, WI  County: Grant
Supported By: Brett-Young Seeds Limited

Site Information
Field:  Previous Crop: Soybean  Soil Type: Fayette Silt Loam
Soil Test: Date: 10/01/04  pH 6.9  OM (%) 3.2  P (ppm) 39  K (ppm) 112

Plot Management
Tillage Operations: No-Till  Cultivated 6/13/05
Fertilizer:
- Preplant Analysis: 46-0-0  Rate lbs/A: 304  Date: N/A
- Starter Analysis: 9-24-24  Rate lbs/A: 150  Date: 4/25/05
- Post plant Analysis: N/A  Rate lbs/A: N/A  Date: N/A
- Manure: N/A
Herbicide:
- Aatrex 4L 1.0 qt/A  Hybrid: Dekalb DKC53-34
- Harness 10 qt/A
- Glyphosate 1.5 qt/A
Insecticide: N/A
Herbicide:
- Aatrex 4L 1.0 qt/A  Hybrid: Dekalb DKC53-34
- Harness 10 qt/A
- Glyphosate 1.5 qt/A
Insecticide: N/A
Irrigation: None
Planting Date: 4/25/05  Planting Depth: 1.5"  Row Width 30"
Target Plant Density: 30000 plants per acre  Planting Method: Kinze Plot Planter
Harvest Date: 10/04/05  Harvest Method: Massey Ferguson 8XP
Notes: Seed treated with Apron XL and Maxim

Experimental Design
Design: RCB  Replications: 3
Plot Size Seeded: 5' x 25'  Experiment Size: 0.96 Acre
Harvest Plot Size: 5' x 22'  Harvest Plant Density: 29878 plants per acre

Treatments (Inoculant):
CORN01
CORN02
Untreated Check

Results: Table C-53.
Table C-53. Performance of corn inoculants.
Lancaster, WI.-2005.

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield</th>
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<th>Test Weight</th>
<th>Lodging</th>
<th>*Grower Return</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>bu/A</td>
<td>%</td>
<td>lbs/bu</td>
<td>%</td>
<td>$/A</td>
</tr>
<tr>
<td>CORN01</td>
<td>225</td>
<td>25.5</td>
<td>54</td>
<td>0</td>
<td>322</td>
</tr>
<tr>
<td>CORN02</td>
<td>239</td>
<td>24.2</td>
<td>55</td>
<td>0</td>
<td>348</td>
</tr>
<tr>
<td>Untreated Check</td>
<td>240</td>
<td>24.5</td>
<td>54</td>
<td>0</td>
<td>347</td>
</tr>
<tr>
<td>Mean</td>
<td>235</td>
<td>24.8</td>
<td>54</td>
<td>0</td>
<td>339</td>
</tr>
</tbody>
</table>

**Probability(%)**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield</th>
<th>Moisture</th>
<th>Test Weight</th>
<th>Lodging</th>
<th>*Grower Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment</td>
<td>10.5</td>
<td>5.2</td>
<td>41.5</td>
<td>-</td>
<td>7.1</td>
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</table>

**LSD (0.10)**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield</th>
<th>Moisture</th>
<th>Test Weight</th>
<th>Lodging</th>
<th>*Grower Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment</td>
<td>NS</td>
<td>0.8</td>
<td>NS</td>
<td>-</td>
<td>19</td>
</tr>
</tbody>
</table>

**CV(%)**

| CV(%) | | | | | | |