

## 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

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### 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

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### Plot Management

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

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### 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

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**Results: Table C-48.**

**Table C-48. Performance of corn inoculants.  
Arlington, WI.-2005.**

Treatment	Yield	Moisture	Test Weight	Lodging	*Grower Return
	bu/A	%	lbs/bu	%	\$/A
CORN01	211	20.9	57	2	321
CORN02	198	20.8	57	9	301
Untreated Check	231	21.4	57	5	349
Mean	214	21.1	57	6	324
<b><u>Probability(%)</u></b>					
Treatment	12.7	87.8	88.5	31.1	11.3
<b><u>LSD (0.10)</u></b>					
Treatment	NS	NS	NS	NS	NS
<b><u>CV(%)</u></b>					
	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

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### 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

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### 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 **Hybrid:** Dekalb DKC53-34  
**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

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### 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

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**Results: Table C-49.**

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

Treatment	Yield	Moisture	Test Weight	Lodging	*Grower Return
	bu/A	%	lbs/bu	%	\$/A
CORN01	205	20.8	58	0	313
CORN02	207	21.0	58	0	315
Untreated Check	200	21.8	57	0	300
Mean	204	21.2	58	0	309
<b><u>Probability(%)</u></b>					
Treatment	47.5	2.4	18.5	-	28.5
<b><u>LSD (0.10)</u></b>					
Treatment	NS	0.5	NS	-	NS
<b><u>CV(%)</u></b>					
	4	1	1	-	3

## 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

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### 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

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### 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  
**Manure:** 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

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### 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

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**Results: Table C-50.**

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

Treatment	Yield	Moisture	Test Weight	Lodging	*Grower Return
	bu/A	%	lbs/bu	%	\$/A
CORN01	240	23.1	54	1	355
CORN02	243	22.4	54	2	363
Untreated Check	243	22.7	53	1	361
Mean	242	22.7	54	1	359
<b><u>Probability(%)</u></b>					
Treatment	91.4	58.6	74.5	76.6	81.7
<b><u>LSD (0.10)</u></b>					
Treatment	NS	NS	NS	NS	NS
<b><u>CV(%)</u></b>					
	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

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### 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

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### 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 **Insecticide:** N/A  
 Atrazine 0.75 lb/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 **Planting Method:** Kinze Plot Planter

**Harvest Date:** 10/06/05 **Harvest Method:** Massey Ferguson 8XP

**Notes:** Seed treated with Apron XL and Maxim

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### 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

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**Results:** Table C-51.

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

Treatment	Yield	Moisture	Test Weight	Lodging	*Grower Return
	bu/A	%	lbs/bu	%	\$/A
CORN01	240	23.8	55	0	352
CORN02	248	23.2	54	0	367
Mean	244	23.5	54	0	360
<b><u>Probability(%)</u></b>					
Treatment	62.2	25.4	55.7	-	57.1
<b><u>LSD (0.10)</u></b>					
Treatment	NS	NS	NS	-	NS
<b><u>CV(%)</u></b>					
	8	2	2	-	8



## 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

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### 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

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### 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 **Insecticide:** Force 3G 4.4 lbs/A  
Hornet 4.0 oz/A **Hybrid:** Dekalb DKC53-34  
Steadfast 0.75 oz/A  
Callisto 3.0 oz/A  
Atrazine 0.75 lb/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:** 10/03/05 **Harvest Method:** Massey Ferguson 8XP  
**Notes:** Seed treated with Apron XL and Maxim

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### 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

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**Results: Table C-52.**

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

Treatment	Yield	Moisture	Test Weight	Lodging	*Grower Return
	bu/A	%	lbs/bu	%	\$/A
CORN01	209	21.4	58	0	316
CORN02	206	21.1	58	0	313
Untreated Check	191	20.4	58	0	293
Mean	202	21.0	58	0	307
<b><u>Probability(%)</u></b>					
Treatment	11.8	23.9	99.9	44.4	16.2
<b><u>LSD (0.10)</u></b>					
Treatment	NS	NS	NS	NS	NS
<b><u>CV(%)</u></b>					
	4	3	2	300	4

## 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

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### 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

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### 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      **Insecticide:** N/A  
                          Harness 10 qt/A      **Hybrid:** Dekalb DKC53-34  
                          Glyphosate 1.5 qt/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

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### 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

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**Results: Table C-53.**

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

Treatment	Yield	Moisture	Test Weight	Lodging	*Grower Return
	bu/A	%	lbs/bu	%	\$/A
CORN01	225	25.5	54	0	322
CORN02	239	24.2	55	0	348
Untreated Check	240	24.5	54	0	347
Mean	235	24.8	54	0	339
<b><u>Probability(%)</u></b>					
Treatment	10.5	5.2	41.5	-	7.1
<b><u>LSD (0.10)</u></b>					
Treatment	NS	0.8	NS	-	19
<b><u>CV(%)</u></b>					
	3	2	1	-	3