

FIELD EXPERIMENT HISTORY

Title: Corn Inoculant Trial
Experiment: 08 Corn Inoculant Trial **Trial ID:** 2847 **Year:** 2006
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: ARS427 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/15/06 **pH** 7.2 **OM (%)** 3.7 **P (ppm)** 75 **K (ppm)** 254

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Soil Finisher Cultivated 6/14/06
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 325 **Date:** 4 /24/06
 Starter Analysis: 9-23-30 **Rate lbs/A:** 150 **Date:** 5 /23/06
 Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
 Manure: N/A
Herbicide: Outlook 20 oz/A **Insecticide:** N/A
 Hornet 4.0 oz/A **Hybrid:** Dekalb DKC53-34(RR2YGCB)
Irrigation: None
Planting Date: 5/23/06 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 30000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 10/23/06 **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:** 0.11 Acre
Harvest Plot Size: 5' x 22' **Harvest Plant Density:** 29898 plants per acre

Treatments (Inoculant):

CORN01
 CORN02
 Untreated Check

Results: Table C-45.

**Table C-45. Performance of corn inoculants.
Arlington, WI- 2006.**

Treatment (inoculant)	Yield	Moisture	Test Weight	Lodging	Grower Return
	bu/A	%	lbs/bu	%	\$/A
Check	231	28.5	53	0	670
Corn 01	222	29.7	53	1	639
Corn 02	222	29.0	53	2	640
Mean	225	29.1	53	1	650
<u>Probability(%)</u>					
Treatment	54.8	16.8	72.9	48.8	50.7
<u>LSD (0.10)</u>					
Treatment	NS	NS	NS	NS	NS
<u>CV(%)</u>					
	5	2	1	201	5

FIELD EXPERIMENT HISTORY

Title: Corn Inoculant Trial
Experiment: 08 Corn Inoculant Trial **Trial ID:** 2848 **Year:** 2006
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:** 10/01/06 **pH** 7.5 **OM (%)** 2.9 **P (ppm)** 75 **K (ppm)** 104

Plot Management

Tillage Operations: Soil Finisher Cultivated 6/15/06
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 348 **Date:** N/A
 Starter Analysis: 9-23-30 **Rate lbs/A:** 150 **Date:** 5 /6 /06
 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 1.0 qt/A **Hybrid:** Dekalb DKC53-34(RR2YGCB)
 Glyphosate 1.0 qt/A
Irrigation: None
Planting Date: 5/6/06 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 30000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 10/12/06 **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:** 0.15 Acre
Harvest Plot Size: 5' x 22' **Harvest Plant Density:** 28908 plants per acre

Treatments (Inoculant):

CORN01
 CORN02
 Untreated Check

Results: Table C-46.

**Table C-46. Performance of corn inoculants.
Lancaster, WI - 2006.**

Treatment (inoculant)	Yield	Moisture	Test Weight	Lodging	Grower Return
	bu/A	%	lbs/bu	%	\$/A
Check	230	19.9	57	3	708
Corn 01	208	20.0	56	2	639
Corn 02	230	19.7	56	4	708
Mean	223	19.9	57	3	685
<u>Probability(%)</u>					
Treatment	9.6	76.2	67.4	78.3	10.3
<u>LSD (0.10)</u>					
Treatment	18	NS	NS	NS	NS
<u>CV(%)</u>					
	5	3	1	128	5

FIELD EXPERIMENT HISTORY

Title: Corn Inoculant Trial
Experiment: 08 Corn Inoculant Trial **Trial ID:** 2849 **Year:** 2006
Personnel: J. G. Lauer, K.D.Kohn and P.J. Flannery
Location: Marshfield, WI **County:** Wood
Supported By: Brett-Young Seeds Limited

Site Information

Field: W5 **Previous Crop:** Soybean **Soil Type:** Loyal Silt Loam
Soil Test: **Date:** 10/1 /05 **pH** 6.6 **OM (%)** 2.5 **P (ppm)** 39 **K (ppm)** 125

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated 6/15/06
Fertilizer: **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A
 Starter Analysis: 9-23-30 **Rate lbs/A:** 150 **Date:** 5 /4 /06
 Post plant Analysis: 28-0-0 **Rate lbs/A:** 27 gal **Date:** N/A
 Manure: N/A
Herbicide: Hornet 2.4 oz/A **Insecticide:** N/A
 Outlook 14.0 oz/A **Hybrid:** Dekalb DKC40-08(RR2YGCB)
 Atrazine 1.0 qt/A
 Accent 0.67 oz/A
 Northstar 5.0 oz/A
Irrigation: None
Planting Date: 5/4/06 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 30000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 10/20/06 **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:** 0.15 Acre
Harvest Plot Size: 5' x 22' **Harvest Plant Density:** 29818 plants per acre

Treatments (Inoculant):

CORN01
 CORN02
 Untreated Check

Results: Table C-47.

**Table C-47. Performance of corn inoculants.
Marshfield, WI - 2006.**

Treatment (inoculant)	Yield bu/A	Moisture %	Test Weight lbs/bu	Lodging %	Grower Return \$/A
Check	142	32.9	53	0	399
Corn 01	140	32.1	53	1	395
Corn 02	136	32.2	53	0	384
Mean	139	32.4	53	0	393
<u>Probability(%)</u>					
Treatment	85.1	63.0	64.8	44.4	87.7
<u>LSD (0.10)</u>					
Treatment	NS	NS	NS	NS	NS
<u>CV(%)</u>					
	10	3	1	300	10

FIELD EXPERIMENT HISTORY

Title: Corn Inoculant Trial
Experiment: 08 Corn Inoculant Trial **Trial ID:** 2850 **Year:** 2006
Personnel: J. G. Lauer, K.D.Kohn and P.J. Flannery
Location: Valders, WI **County:** Manitowoc
Supported By: Brett-Young Seeds Limited

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Kewaunee Clay Loam
Soil Test: **Date:** 10/15/06 **pH** 6.9 **OM (%)** 2.6 **P (ppm)** 51 **K (ppm)** 90

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated 6/21/06
Fertilizer: **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A
Starter Analysis: 9-23-30 **Rate lbs/A:** 150 **Date:** 5 /5 /06
Post plant Analysis: 34-0-0 **Rate lbs/A:** 147 **Date:** 6 /21/06
Manure: N/A
Herbicide: Dual II Mag 0.75 pt/A **Insecticide:** N/A
Accent Gold WDG 2.5 oz/A **Hybrid:** Dekalb DKC40-08(RR2YGCB)
Callisto 1.5 oz/A
Atrazine 0.25 lb
Irrigation: None
Planting Date: 5/5/06 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 30000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 10/25/06 **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:** 0.15 Acre
Harvest Plot Size: 5' x 22' **Harvest Plant Density:** 27720 plants per acre

Treatments (Inoculant):

CORN01
 CORN02
 Untreated Check

Results: Table C-48.

**Table C-48. Performance of corn inoculants.
Valders, WI - 2006.**

Treatment (inoculant)	Yield	Moisture	Test Weight	Lodging	Grower Return
	bu/A	%	lbs/bu	%	\$/A
Check	196	20.2	56	0	602
Corn 01	196	20.1	56	0	600
Corn 02	205	20.4	56	0	627
Mean	199	20.2	56	0	610
<u>Probability(%)</u>					
Treatment	51.1	69.8	54.5	-	50.3
<u>LSD (0.10)</u>					
Treatment	NS	NS	NS	NS	NS
<u>CV(%)</u>					
	5	2	1	-	5