

FIELD EXPERIMENT HISTORY

Title: Corn Grain Yield Response to XiteBio
Experiment: 11XiteBio **Year:** 2014
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo **Trial ID:** 5791
Location: Arlington, WI **County:** Columbia
Supported By: HATCH, XiteBio

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/01/14 **pH:** 6.9 **OM (%)** 3.3 **P (ppm)** 70 **K (ppm)** 184

Plot Management

Tillage Operations: Chisel Plow Field Cultivator
Fertilizer: **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A
Starter Analysis: 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5/7/14
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: N/A
Herbicide: Dual II Mag 28 oz/A **Insecticide:** Force 3G 4.4 lbs/A
 Hornet 4.0 oz/A **Hybrid:** Dekalb DKC55-09RIB
 Accent Q 1.0 oz/A
 Callisto 3.0 oz/A
Irrigation: None
Planting Date: 5/7/14 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/24/14 **Harvest Method:** Massey 8XP
Notes: XiteBio applied at 250ml/A on 6/11/14 @ V5
 Return value for treated plots = Grower return - application cost (\$10.00/A) - product cost (\$10.00/A).

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.05 A
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 30350 plants per acre
Factors/Treatments:

Treatment:

- 1) XiteBio
 - 2) Untreated Check
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Results: Table 1411-01.

**Table: 1411-01. Corn Grain Yield Response to XiteBio.
Arlington, WI - 2014.**

| Treatment | Harvest density | Grain yield | Grain moisture | Test weight | Lodged | | | Return \$3.67 |
|------------------------------|--------------------|----------------|-------------------|----------------|--------|-------|------|------------------|
| | | | | | Total | Stalk | Root | |
| | plants/A | bu/A | % | lb/bu | % | % | % | \$/A |
| XiteBio @ 250ml/Acre | 31628 | 237 | 27.5 | 54 | 1 | 1 | 0 | 737 |
| Untreated Check | 29072 | 230 | 26.9 | 54 | 3 | 2 | 0 | 740 |
| Mean | 30350 | 234 | 27.2 | 54 | 2 | 1 | 0 | 739 |
| <u>Probability(%)</u> | | | | | | | | |
| Treatment (T) | 15.0 | 38.5 | 45.6 | 86.3 | 9.9 | 18.9 | 36.3 | 90.7 |
| <u>LSD(0.10)</u> | | | | | | | | |
| Treatment (T) | NS | NS | NS | NS | 2 | NS | NS | NS |

FIELD EXPERIMENT HISTORY

Title: Corn Grain Yield Response to XiteBio
Experiment: 11XiteBio **Year:** 2014
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo **Trial ID:** 5824
Location: Fond du Lac, WI **County:** Fond du Lac
Supported By: HATCH, XiteBio

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Virgil Silt Loam
Soil Test: **Date:** 10/01/14 **pH:** 7.5 **OM (%)** 2.7 **P (ppm)** 41 **K (ppm)** 131

Plot Management

Tillage Operations: Chisel Plow Field Cultivator
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 150 lbs/A **Date:** N/A
Starter Analysis: 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5/23/14
Post plant Analysis: 32-0-0 **Rate lbs/A:** 60 lbs/A **Date:** 6/27/14
Manure: N/A
Herbicide: Lumax 3.0gal/A **Insecticide:** Force 3G 4.4 lbs/A
Irrigation: None **Hybrid:** Dekalb DKC55-09RIB
Planting Date: 5/23/14 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/4/14 **Harvest Method:** Massey 8XP
Notes: XiteBio applied at 250ml/A on 6/12/14 @ V4
 Return value for treated plots = Grower return - application cost (\$10.00/A) - product cost (\$10.00/A).

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.05 A
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 31060 plants per acre
Factors/Treatments:

Treatment:

- 1) XiteBio
 - 2) Untreated Check
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Results: Table 1411-02.

**Table: 1411-02. Corn Grain Yield Response to XiteBio.
Fond du Lac, WI - 2014.**

| Treatment | Grain yield | Grain moisture | Test weight | Lodged | | | Return \$3.67 |
|------------------------------|----------------|-------------------|----------------|--------|-------|------|------------------|
| | | | | Total | Stalk | Root | |
| | bu/A | % | lb/bu | % | % | % | \$/A |
| XiteBio @ 250ml/Acre | 192 | 32.2 | 51 | 0 | 0 | 0 | 577 |
| Untreated Check | 186 | 32.1 | 51 | 0 | 0 | 0 | 579 |
| Mean | 189 | 32.1 | 51 | 0 | 0 | 0 | 578 |
| <u>Probability(%)</u> | | | | | | | |
| Treatment (T) | 65.6 | 90.2 | 62.2 | 100 | 100 | 100 | 97.5 |
| <u>LSD(0.10)</u> | | | | | | | |
| Treatment (T) | NS | NS | NS | NS | NS | NS | NS |

FIELD EXPERIMENT HISTORY

Title: Corn Grain Yield Response to XiteBio
Experiment: 11XiteBio **Year:** 2014
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo **Trial ID:** 5823
Location: Janesville, WI **County:** Rock
Supported By: HATCH, XiteBio

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/01/14 **pH:** 6.4 **OM (%)** 2.7 **P (ppm)** 36 **K (ppm)** 113

Plot Management

Tillage Operations: Chisel Plow Field Cultivator
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 160 lbs/A **Date:** N/A
Starter Analysis: 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5 /5 /14
Post plant Analysis: 28-0-0 **Rate lbs/A:** 50 lbs/A **Date:** 6 /9 /14
Manure: N/A
Herbicide: Lumax 3.0 qt/A **Insecticide:** Force 3G 4.4 lbs/A
Irrigation: None **Hybrid:** Dekalb DKC55-09RIB
Planting Date: 5/5/14 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/17/14 **Harvest Method:** Massey 8XP
Notes: XiteBio applied at 250ml/A on 6/11/14 @ V5
 Return value for treated plots = Grower return - application cost (\$10.00/A) - product cost (\$10.00/A).

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.05 A
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 32575 plants per acre
Factors/Treatments:

Treatment:

- 1) XiteBio
 - 2) Untreated Check
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Results: Table 1411-03.

