

FIELD EXPERIMENT HISTORY

Title: Corn grain response to Best-a (biostimulant-phytosterol) from Elicit Plant (France)
Experiment: 14Biologicals **Trial ID:** 6684 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Arlington, WI **County:** Columbia
Supported By: Elicit Plant

Site Information

Field: ARS406 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 6.1 **OM (%)** 2.8 **P (ppm)** 40 **K (ppm)** 127

Plot Management

Tillage Operations: Field Cultivator

Fertilizer:	Preplant Analysis:	32-0-0	Rate lbs/A:	43 lbs/A	Date:	N/A
	Starter Analysis:	9-11-30-6S-1Zn	Rate lbs/A:	18 lbs/A	Date:	5 /9 /22
	Post plant Analysis:	N/A	Rate lbs/A:	N/A	Date:	N/A

Herbicide:	Bellum 6.0 oz/A	Insecticide:	Force 6.5G 2.0 lbs/A
	Medal II EC 24 oz/A		Hybrid:

Irrigation: None

Planting Date: 5/9/22 **Planting Depth:** 1.5" **Row Width** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: 10/17/22 **Harvest Method:** Massey 8XP

Notes: Application: 6/10/22 13.7 oz/A @ V5 growth stage

Experimental Design

Design: RCB	Replications: 4
Plot Size Seeded: 10' x 25'	Experiment Size: 0.25 A
Harvest Plot Size: 5' x 23'	Harvest Plant Density: 33428 plants per acre

Treatment:

- 1) UTC
 - 2) Best-a (biostimulant-phytosterol)
-

Results: Table 2210-01.

FIELD EXPERIMENT HISTORY

Title: Corn grain response to Best-a (biostimulant-phytosterol) from Elicit Plant (France)
Experiment: 14Biologicals **Trial ID:** 6694 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Chippewa Falls, WI **County:** Chippewa
Supported By: Elicit Plant

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Sattre Silt Loam
Soil Test: **Date:** 9 /15/22 **pH:** 5.2 **OM (%)** 1.6 **P (ppm)** 77 **K (ppm)** 93

Plot Management

Tillage Operations: Chisel Plow Field Cultivator

Fertilizer: **Preplant Analysis:** 21-0-0-24S **Rate lbs/A:** 11 lbs/A **Date:** N/A
Starter Analysis: 9-11-30-6S-1Zn **Rate lbs/A:** 18 lbs/A **Date:** 5 /5 /22
Post plant Analysis: 32-0-0 **Rate lbs/A:** 64 **Date:** N/A

Herbicide: Acuron 3.0 qt/A **Insecticide:** Force 6.5G 2.0 lbs/A
Irrigation: None **Hybrid:** Dekalb DKC51-98RIB

Planting Date: 5/5/22 **Planting Depth:** 1.5" **Row Width** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: 10/18/22 **Harvest Method:** Massey 8XP

Notes: Application: 6/20/22 13.7 oz/A @ V6 growth stage

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.25 A
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 35808 plants per acre

Treatment:

- 1) UTC
 - 2) Best-a (biostimulant-phytosterol)
-

Results: Table 2210-02.

**Table: 2214-02. Evaluation of BEST-a biostimulant.
Chippewa Falls, WI - 2022.**

Treatment	Harvest population	Grain yield bu/A	Grain moisture %	Test wt lb/bu	Lodged			AGI \$5.22 \$/A
					Total %	Stalk %	Root %	
Untreated Check	35443	218	23.9	53	1	1	0	1053
BEST-a	36174	225	22.6	53	0	0	0	1093
Mean	35808	222	23.2	53	1	0	0	1073
<u>Probability(%)</u>								
Treatment	29.8	45.6	3.9	74.3	38.2	67.4	39.1	38.3
<u>LSD(0.10)</u>								
Treatment	NS	NS	1	NS	NS	NS	NS	NS