

FIELD EXPERIMENT HISTORY

Title: Corn response to 3Bar Biologics microbes applied in-furrow

Experiment: 11Biologicals **Trial ID:** 6241 **Year:** 2017

Personnel: Joe Lauer, Thierno Diallo, Kent Kohn,

Location: Arlington, WI **County:** Columbia

Supported By: HATCH

Site Information

Field: ARS 375 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: Date: 11/28/2017 **pH:** 7.1 **OM (%) :** 3 **P (ppm) :** 26 **K (ppm) :** 119

Plot Management

Tillage Operations: Field Cultivator 2x

Fertilizer:	Preplant Analysis: 46-0-0	Product Rate lbs/A 300	Date: 05/10/2017
	Starter Analysis: N/A	Product Rate lbs/A N/A	Date: N/A
	Post plant Analysis N/A	Product Rate lbs/A N/A	Date: N/A
	Manure: N/A	Product Rate lbs/A N/A	Date: N/A

Herbicide:	Medal II EC 24 oz/A 5/31/2017	Insecticide: N/A
	Explorer 5.0 oz/A 5/31/2017	
	Simazine 4L 16 oz/A 5/31/2017	
	Laudis 3.0 oz/A 21/06/2017	

Irrigation: None

Planting Date: 5/26/ 2017 **Planting Depth:** 1.5" **Row Width** 30"

Target Plant Density: 33000 plants per acre **Planting Method:** JD 1700 w RTK

Harvest Date: 10/24/16 **Harvest Method:** MF 8XP

Experimental Design

Design: RCB	Replications: 6
Plot Size Seeded: 10' x 50'	Experiment Size: 1.5 A
Harvest Plot Size: 2.5' x 50'	Harvest Plant Density: 35333 plants per acre

Factors/Treatments:

Treatment

- 1) UTC
- 2) 3Bar strain #1
- 3) 3Bar strain #2
- 4) 3Bar strain #3

Results: Table 1711-01.

**Table:1711-01. Corn Response to 3Bar Biologics microbes applied in Furrow- Corn.
Arlington, WI - 2017.**

Treatment	Yield bu/A	Moisture %	Test weight lbs/bu	Lodged			Harvest density plants/A	*AGI \$3.44/bu \$/A
				Total %	Stalk %	Root %		
UTC	211	24.1	51.7	0.5	0.5	0.0	35333	641
Strain1 (Blue)	215	23.8	50.5	1.9	1.4	0.5	35167	653
Strain2 (Green)	217	24.0	51.2	1.4	1.4	0.0	35167	661
Combined Strains (Red)	210	24.2	51.7	3.3	3.3	0.0	35667	638
Mean	213	24.0	51.3	1.8	1.7	0.1	35333	648
<u>Probability(%)</u>								
Treatment (T)	80.7	88.1	58.2	16.2	10.9	42.0	88.6	81.0
<u>LSD(0.10)</u>								
Treatment (T)	NS	NS	NS	NS	NS	NS	NS	NS

*AGI - Adjusted Gross Income.