

FIELD EXPERIMENT HISTORY

Title: Corn response to 3Bar Biologics microbes applied in-furrow
Experiment: 11Biologicals **Trial ID:** 6129 **Year:** 2016
Personnel: Joe Lauer, Thierno Diallo, Kent Kohn,
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: ARS 406 **Previous Crop:** Alfalfa **Soil Type** Plano Silt Loam
Soil Test: **Date:** 10/31/16 **pH:** 6.2 **OM (%)** 3.3 **P (ppm)** 26 **K (ppm)** 79

Plot Management

Tillage Operations: Disk Chisel, Field Cultivator

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	N/A	N/A	N/A
Post plant	N/A	N/A	N/A
Manure:	Dairy	10500 gal / A	01/06/16

Herbicide: Medal II EC 24 oz/A 5/23/16 **Insecticide:** Force 4.4 lb/A
 Hornet 4 oz/A 5/28/16

Irrigation: None **Hybrid:** Pioneer 0048 AMX

Planting Date: 5/16/ 2016 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 plants per acre **Planting Method:** JD1700 w RTK

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

Notes:

Experimental Design

Design: RCB **Replications:** 6
Plot Size Seeded: 10' x 25' **Experiment Size:** 1.9 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 33327 plants per acre

Factors/Treatments:

Treatment

- 1) UTC
- 2) 3Bar strain

Results: Table 1611-04.

**Table:1611-04. Corn Response to 3Bar Biologics microbes applied in Furrow- Corn.
Arlington, WI - 2016.**

Rotation	Yield bu/A	Moisture %	Test weight lbs/bu	Lodged			Harvest density plants/A	*AGI \$3.44/bu \$/A
				Total %	Stalk %	Root %		
UTC	279	20.7	57.3	0	0	0	33327	865
3bar strain	282	20.9	59.3	0	0	0	33327	874
Mean	280	20.8	58.3	0	0	0	33327	870
<u>Probability(%)</u>								
Treatment (T)	57	36.3	6.8	100	100	100	100	62
<u>LSD(0.10)</u>								
Treatment (T)	NS	NS	1.7	NS	NS	NS	NS	NS

***AGI - Adjusted Gross Income.**