

## FIELD EXPERIMENT HISTORY

**Title:** Corn response to 3Bar Biologics microbes applied in-furrow  
**Experiment:** 11Biologicals **Trial ID:** 6267 **Year:** 2018  
**Personnel:** Joe Lauer, Thierno Diallo, Kent Kohn,  
**Location:** Arlington, WI **County:** Columbia  
**Supported By:** HATCH

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### Site Information

**Field:** ARS 373 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam  
**Soil Test:** Date: 11/12/2018 **pH:** 6.6 **OM (%)** 2.6 **P (ppm)** 15 **K (ppm)** 109

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### Plot Management

**Tillage Operations:** Spring Field Cultivator 5/16/18

**Fertilizer:** **Preplant Analysis:** 46-0-0 **ProductRate lbs/A** 325 **Date:** 05/16/2018  
**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

**Herbicide:** 2.4D Low Vol 4 @ 16 oz/A 5/8/18 **Insecticide:** N/A  
 Tomahawk 5 @ 32 oz/A 5/8/18 **Hybrid:** Jung 49SS437RIB

**Irrigation:** None  
**Planting Date:** 5/25/ 2018 **Planting Depth:** 1.5" **Row Width** 30"

**Target Plant Density:** 35000 plants per acre **Planting Method:** JD1700 w RTK

**Harvest Date:** 10/24/18 **Harvest Method:** MF 8XP

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### Experimental Design

**Design:** RCB **Replications:** 6  
**Plot Size Seeded:** 10' x 50' **Experiment Size:** 0.7 A  
**Harvest Plot Size:** 5' x 50' **Harvest Plant Density:** 35375 plants per acre

### Factors/Treatments:

#### Treatment

- 1) Bio-Yield (label rate)
  - 2) Bio-Yield (label rate + starter fertilizer)
  - 3) Bio-Yield (2X label rate + starter fertilizer)
  - 4) check (+ starter fertilizer)
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**Results: Table 1811-01.**

**Table:1811-01. Corn Response to 3Bar Biologics microbes applied in Furrow- Corn.  
Arlington, WI - 2018.**

Treatment	Yield bu/A	Moisture %	Test weight lbs/bu	Lodged			Harvest density plants/A	*AGI \$3.44/bu \$/A
				Total %	Stalk %	Root %		
1-Bio-Yield (label rate)	217	23.2	51.0	1.4	1.4	0.0	35667	663
2-Bio-Yield (label rate + starter fertilizer)	218	22.8	51.0	2.9	2.5	0.5	34500	667
3-Bio-Yield (2 X label rate + starter fertilizer)	219	23.2	50.7	1.0	1.0	0.0	37167	671
4-Check (+ starter fertilizer)	220	23.5	51.2	1.5	1.5	0.0	34167	671
Mean	219	23.2	50.9	1.7	1.6	0.1	35375	668
<b><u>Probability(%)</u></b>								
Treatment (T)	78.3	55.0	71.4	24.4	52.6	42.0	25.9	87.6
<b><u>LSD(0.10)</u></b>								
Treatment (T)	NS	NS	NS	NS	NS	NS	NS	NS

**\*AGI - Adjusted Gross Income.**