

FIELD EXPERIMENT HISTORY

Title: Corn yield response to Conklin Foliar Plant Growth Regulators.
Experiment: 14PGR **Trial ID:** 6018 **Year:** 2015
Personnel: Joe Lauer, Thierno Diallo, Kent Kohn
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: ARS372 **Previous Crop:** Soybeans **Soil Type:** Plano Silt Loam
Soil Test: Date: 11/16/15 **pH:** 5.6 **OM (%) :** 2.9 **P (ppm) :** 9 **K (ppm) :** 66

Plot Management

Tillage Operations: Field Cultivator

Fertilizer:	Preplant Analysis: 46-0-0	Rate lbs/A: 300 lbs/A	Date: 4 /27/15
	Starter Analysis: N/A	Rate lbs/A: N/A	Date: N/A
	Post plant Analysis: N/A	Rate lbs/A: N/A	Date: N/A
	Manure: N/A	Rate lbs/A: N/A	Date: N/A

Herbicide: Dual II Magnum 24 oz/A 5/28/15 **Insecticide:** N/A
 Hornet 4 oz/A 5/28/15

Irrigation: None

Planting Date: 5/18/15 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 10/27/15 **Harvest Method:** MF 8XP combine

Experimental Design

Design: RCB	Replications: 4
Plot Size Seeded: 10' x 40'	Experiment Size: 0.6 A
Harvest Plot Size: 5' x 36'	Harvest Plant Density: 30654 plants per acre

Factors/Treatments:

Treatment

- 1.) Control
- 2.) Formulation 1 applied at 1 quart/A at V3-V5
- 3.) Formulation 1 applied at 1 quart/A at one week before tassel
- 4.) Formulation 1 applied at 1 quart/A at both timings
- 5.) Formulation 2 applied at 1 pint/A at V3-V5
- 6.) Formulation 2 applied at 1 pint/A at one week before tassel
- 7.) Formulation 2 applied at 1 pint/A at both timings
- 8.) Formulation 1 applied at 1 quart/A and Formulation 2 applied at 1 pint/A at V3-V5
- 9.) Formulation 1 applied at 1 quart/A and Formulation 2 applied at 1 pint/A at one week before tassel
- 10.) Formulation 1 applied at 1 quart/A and Formulation 2 applied at 1 pint/A at both timings
- 11.) Formulation 1 applied at 2 quart/A at V3-V5
- 12.) Formulation 1 applied at 2 quart/A at one week before tassel
- 13.) Formulation 1 applied at 2 quart/A at both timings

Results: Table 1514-02

FIELD EXPERIMENT HISTORY

Title: Corn yield response to Conklin in-Furrow Plant Growth Regulators.
Experiment: 14PGR **Trial ID:** 6017 **Year:** 2015
Personnel: Joe Lauer, Thierno Diallo, Kent Kohn,
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: ARS372 **Previous Crop:** Soybeans **Soil Type:** Plano Silt Loam
Soil Test: Date: 11/16/15 **pH:** 5.6 **OM (%) :** 2.9 **P (ppm) :** 9 **K (ppm) :** 66

Plot Management

Tillage Operations: Field Cultivator

Fertilizer:	Preplant Analysis: 46-0-0	Rate lbs/A: 300 lbs/A	Date: 4 /27/15
	Starter Analysis: N/A	Rate lbs/A: N/A	Date: N/A
	Post plant Analysis: N/A	Rate lbs/A: N/A	Date: N/A
	Manure: N/A	Rate lbs/A: N/A	Date: N/A

Herbicide: Dual II Magnum 24 oz/A 5/28/15 **Insecticide:** N/A
 Hornet 4 oz/A 5/28/15

Irrigation: None

Planting Date: 5/18/15 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 10/23/15 **Harvest Method:** MF 8XP combine

Experimental Design

Design: RCB	Replications: 4
Plot Size Seeded: 10' X 50'	Experiment Size: 0.3 A
Harvest Plot Size: 5' x 46'	Harvest Plant Density: 32066 plants per acre

Factors/Treatments:

Treatment

- 1.) Control
- 2.) Experimental A applied at 2 pints/A
- 3.) Experimental B applied at 2 pints/A
- 4.) Experimental C applied at 2 pints/A

Results: Table 1514-01.

**Table: 1514-01. Corn yield response to Conklin in-Furrow Plant Growth Regulator
Arlington, WI - 2015**

Treatment	Yield bu/A	Moisture %	Test weight lb/bu	Lodged			Harvest density plants/A	*AGI \$3.44/bu \$/A
				Total %	Stalk %	Root %		
UTC	177	20.0	54	0	0	0	32575	553
Experimental A at 2 pints/A	177	19.5	53	0	0	0	31770	553
Experimental B at 2 pints/A	171	18.3	53	0	0	0	31912	539
Experimental C at 2 pints/A	171	19.6	53	0	0	0	32007	536
Mean	174	19.3	53	0	0	0	32066	545
<u>Probability (%)</u>								
Treatment (T)	77.0	9.7	61.0	59.3	43.6	43.6	84.5	83.8
<u>LSD (0.10)</u>								
Treatment (T)	NS	1.1	NS	NS	NS	NS	NS	NS