

FIELD EXPERIMENT HISTORY

Title: Corn Foliar Photosynthetic Upregulator Study
Experiment: 11 Misc **Trial ID:** 3120 **Year:** 2008
Personnel: J.G. Lauer, K.D. Kohn and T. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: BiAgro Western

Site Information

Field: ARS375 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 11/4 /08 **pH:** 7.2 **OM (%)** 2.1 **P (ppm)** 38 **K (ppm)** 175

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated 6/17/08
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 325 **Date:** N/A
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
Herbicide: Dual II Mag 1.5 pt/A **Insecticide:** None
Hornet 4.0 oz/A **Hybrid:** Dekalb DKC50-20
Irrigation: None
Planting Date: 5/6/08 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 30000 plants per acre **Planting Method:** Kinze 3000 Row Planter
Harvest Date: 10/10/08 **Harvest Method:** Massey 8XP

Experimental Design

Design: RCB **Replications:** 6
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.26 Acre
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 30334 plants per acre

Factors/Treatments:

Application Dates:

V5 - June 13
 V10 - July 8
 R1 - July 24

Application of Take Off:

1) 3.0 l/a @ V4-5
 2) 3.0 l/a @ V4-5 & 3.0 l/a @ V8-10
 3) 3.0 l/a @ V4-5 & 3.0 l/a @ V8-10 & 3.0 l/a @ R1
 4) UTC

Results: Table C-46.

**Table C-46. BiAgro Corn Foliar Photosynthetic Upregulator Study.
Arlington, WI - 2008.**

Treatment	Harvest population	Grain yield	Grain moisture	Test weight	Root lodging	Stalk lodging	Grower return
	plants/A	bu/A	%	lb/bu	%	%	\$/A
3.0 l/a @ V4-5	30303	207	22.0	54	0.0	0.0	693
3.0 l/a @ V4-5 & 3.0 l/a @ V8-10	30050	197	22.1	54	0.2	0.0	659
3.0 l/a @ V4-5 & 3.0 l/a @ V8-10 & 3.0 l/a @ R1	30303	209	22.8	54	0.0	0.2	695
UTC	30681	204	21.6	54	0.2	0.0	685
Mean	30334	204	22.1	54	0.1	0.1	683
Probability(%)							
Treatment (T)	67.8	53.6	14.9	59.1	58.5	42.0	53.9
LSD(0.10)							
Treatment (T)	NS	NS	NS	NS	NS	NS	NS