

## FIELD EXPERIMENT HISTORY

**Title:** BiAgro Photosynthetic Enhancer Study.  
**Experiment:** 11 BiAgro **Trial ID:** 3003 **Year:** 2007  
**Personnel:** J.G. Lauer, K.D. Kohn and T.H. Diallo  
**Location:** Arlington, WI **County:** Columbia  
**Supported By:** BiAgro Western

---

### Site Information

**Field:** ARS408 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam  
**Soil Test:** **Date:** 11/01/07 **pH** 7.0 **OM (%)** 3.1 **P (ppm)** 43 **K (ppm)** 128

---

### Plot Management

**Tillage Operations:** Fall Chisel Plow Field Cultivator Soil Finisher Cultivated 6/8/07  
**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:** Hornet 4.0 oz/A **Insecticide:** None  
Harness 24 oz/A **Hybrid:** Pioneer 38B87  
Banvel 2.0 oz/A  
**Irrigation:** None  
**Planting Date:** 5/2/07 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Kinze 2000 Inter-row  
**Harvest Date:** 10/8/07 **Harvest Method:** Massey Ferguson 8XP

---

### Experimental Design

**Design:** RCB **Replications:** 6  
**Plot Size Seeded:** 47' x 10' **Experiment Size:** 0.62 A  
**Harvest Plot Size:** 47' x 5' **Harvest Plant Density:** 31017 plants per acre

### Factors/Treatments:

#### Treatment

- 1) TakeOff @ 1.0 l/a on V5-V6
- 2) TakeOff @ 2.0 l/a on V5-V6
- 3) TakeOff+Nutri-phiteMZ @ 1.0 l/a+1.0 l/a on V5-V6
- 4) Nutri-phite MZ @ 1.0 l/a on V5
- 5) TakeOff @1.0 l/a and 1.0 l/a on V5-6 and V9-10
- 6) TakeOff @1.0 l/a on V5-6 and TakeOff +Nutri-phite MZ @1.0 l/a + 1.0 l/a on 9-10
- 7) TakeOff @1.0 l/a on V5-6 and V9-10 and R1
- 8) Untreated Check

#### Application Dates

V5/V6 - June 11  
 V9/V10 - June 25  
 R1 - July 13

---

**Results: Table C-42.**

**Table C-42. BiAgro Photosynthetic Enhancer Study.**

**Arlington, WI - 2007**

Treatment	Grain yield bu/A	Grain moisture %	Test weight lb/bu	Root lodging %	Stalk lodging %	Grower return \$/A
1 TakeOff @ 1.0 l/a on V5-V6	196	15.6	59.5	7	3	674
2 TakeOff @ 2.0 l/a on V5-V6	199	15.6	59.0	12	4	683
3 TakeOff+Nutri-phiteMZ @ 1.0 l/a+1.0 l/a on V5-V6	199	15.6	59.7	8	4	686
4 Nutri-phite MZ @ 1.0 l/a on V5	199	15.9	59.7	5	2	683
5 TakeOff @1.0 l/a and 1.0 l/a on V5-6 and V9-10	196	15.5	59.1	5	2	674
6 TakeOff @1.0 l/a on V5-6 and TakeOff +Nutri-phite MZ @1.0 l/a + 1.0 l/a on 9-10	196	15.8	59.5	9	3	674
7 TakeOff @1.0 l/a on V5-6 and V9-10 and R1	199	15.9	59.5	4	4	685
8 Untreated Check	198	15.5	59.3	8	4	681
Mean	197	15.7	59.4	7	3	680
<b>Probability(%)</b>						
Treatment (T)	74.4	42.3	9.8	52.8	94.3	79.0
<b>LSD(0.10)</b>						
Treatment (T)	NS	NS	0.4	NS	NS	NS
<b>CV(%)</b>	3	2	1	97	105	3