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

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.

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Harvest population</th>
<th>Grain yield</th>
<th>Grain moisture</th>
<th>Test weight</th>
<th>Root lodging</th>
<th>Stalk lodging</th>
<th>Grower return</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0 l/a @ V4-5</td>
<td>30303</td>
<td>207</td>
<td>22.0</td>
<td>54</td>
<td>0.0</td>
<td>0.0</td>
<td>693</td>
</tr>
<tr>
<td>3.0 l/a @ V4-5 &amp; 3.0 l/a @ V8-10</td>
<td>30050</td>
<td>197</td>
<td>22.1</td>
<td>54</td>
<td>0.2</td>
<td>0.0</td>
<td>659</td>
</tr>
<tr>
<td>3.0 l/a @ V4-5 &amp; 3.0 l/a @ V8-10 &amp; 3.0 l/a @ R1</td>
<td>30303</td>
<td>209</td>
<td>22.8</td>
<td>54</td>
<td>0.0</td>
<td>0.2</td>
<td>695</td>
</tr>
<tr>
<td>UTC</td>
<td>30681</td>
<td>204</td>
<td>21.6</td>
<td>54</td>
<td>0.2</td>
<td>0.0</td>
<td>685</td>
</tr>
<tr>
<td>Mean</td>
<td>30334</td>
<td>204</td>
<td>22.1</td>
<td>54</td>
<td>0.1</td>
<td>0.1</td>
<td>683</td>
</tr>
</tbody>
</table>

**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   | NS   |