Effect of Inoculants on Soybean Yields
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In cooperation with Morrow County Soil and Water Conservation District

Objective

To evaluate the effect of two inoculants on soybean yields.

Background

Cooperator: Morrow County  
Home Farm  
Fertilizer: None  
Herbicides: PRE: Canopy (3 oz/A), 2,4-D  
POST: Roundup Ultra (1 pt/A)+ AMS  
County: Morrow  
Nearest town: Mt. Gilead  
Soil Type: Centerburg silt loam  
Previous Crop: Corn  
Drainage: Randomly tiled  
Tillage: No-till  
Soil Test: pH 6.7, P 52 ppm, K 169 ppm, CEC 8.0

Methods

This study compared two relatively new soybean inoculants (CellTech 2000 and USDA Rhizo Stick). The study was three side-by-side comparisons. The individual treatment plots were 30-feet wide, and the harvested area was the center 20 feet of each plot and measured approximately 1/4 acre in size. The plots were all weighed with a weigh wagon. The soybeans were inoculated as directed by the manufacturer. One treatment was planted, then the drill was cleaned out completely with a shop vac and a second treatment was completed.

Results

<table>
<thead>
<tr>
<th>Inoculant</th>
<th>Yield (bu/A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Tech</td>
<td>48</td>
</tr>
<tr>
<td>USDA Rhizo Stick</td>
<td>47.7</td>
</tr>
<tr>
<td>F &lt;1, P = 0.05</td>
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</tr>
<tr>
<td>CV 4.2%</td>
<td>NS</td>
</tr>
</tbody>
</table>

NS = Not Significant
Summary and Notes

The soybeans were clean of weeds and looked good. There was no significant difference in yields between the two treatments.

Acknowledgment

The author would like to thank Golden Harvest for its donation of seed used in this study. Also, thanks to Royster Clark for donating the inoculants used. And thanks to the Morrow County Commissioners for the donation of land for this study.

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