Soybean Inoculant Demonstration Plots

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Objective

To investigate the potential benefits of the recently released USDA inoculant for soybeans.

Background

Crop Year: 1997  
Soil Test: pH 6.4; P 121 lbs./A; K 249 lbs./A  
Cooperator: Larry Lotz  
County/Town: Fayette/ Washington C.H.  
Drainage: Improved- 60 ft.  
Major Soil Type: Crosby  
Previous Crop: Wheat  
Planting Date: May 7, 1997  
Tillage: Conventional- chisel  
Harvest Date: October 3, 1997

Fertilizer Applied: 0-69-90 (actual)  
Herbicide: 1 qt. Roundup (2x)  
Variety: Pioneer and Asgrow

Materials and Methods

Each plot measured 50’ x 400’. All soybeans were Roundup-Ready and were sprayed twice during the growing season with 1 qt./A Roundup. Weed control was very good. An infrared photo showed color difference in favor of inoculated plots.

Results

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Plot No.</th>
<th>Plant N</th>
<th>Yield/Ac.</th>
<th>Avg. Yield</th>
<th>Treatment Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>USDA Inoculant</td>
<td>2</td>
<td>6.60%</td>
<td>62.5</td>
<td>61.54</td>
<td>2.1 bu/ac. in Favor of USDA Inoculated Plots</td>
</tr>
<tr>
<td>USDA Inoculant</td>
<td>4</td>
<td>6.60%</td>
<td>60.58</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Inoculant</td>
<td>1</td>
<td>6.80%</td>
<td>59.97</td>
<td>59.42</td>
<td></td>
</tr>
<tr>
<td>No Inoculant</td>
<td>3</td>
<td>6.60%</td>
<td>58.88</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For additional information, contact:  
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