Soybean Inoculant Trials
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Objective
The objective of this trial was to compare the performance of new soybean inoculum products on three farms in Wyandot County.

Background
Cooperator: Dean Koehler Rod Philips Gary Walter
Nearest Town: Nevada Carey Upper Sandusky
Variety: 322 STS DeKalb 267 Callahan 7383
Planting Rate: 235,000 225,000 230,000
Tillage: No-till No-till No-till
Soil Type: Blount A Lykins A Blount A
Previous Crop: Cron Corn Corn

Methods
A new pre-mixed, humus-based inoculant containing a USDA-patented strain of Rhizobium with sticking agent was compared to not using any inoculant on three producer fields. Dean Koehler used 30' by 900' long strip plots. Rod Phillips and Gary Walter both used 45' by 1/2 mile long strips. The experiment design was a randomized, complete block with six replications at each site. Harvested sections of each strip plot were as follows: Koehler farm, 0.82 acre; Phillips farm, 0.30 acre; and Walter farm, 0.28 acre.

Results

<table>
<thead>
<tr>
<th></th>
<th>Koehler Farm</th>
<th>Phillips Farm</th>
<th>Walter Farm</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Inoculum Yield (bu/A)</td>
<td>54</td>
<td>65.4</td>
<td>54</td>
</tr>
<tr>
<td>Inoculum Yield (bu/A)</td>
<td>54.3</td>
<td>65.9</td>
<td>54.3</td>
</tr>
<tr>
<td>F test</td>
<td>0.24</td>
<td>0.67</td>
<td>2.39</td>
</tr>
<tr>
<td>Significance (P=0.05)</td>
<td>NS</td>
<td>NS</td>
<td>NS</td>
</tr>
<tr>
<td>CV</td>
<td>1.40%</td>
<td>3.00%</td>
<td>3.90%</td>
</tr>
</tbody>
</table>

Summary and Notes
On all three farms the inoculum treatment did not significantly increase yields. Experimental error was well controlled as indicated by low coefficients of variation.

Acknowledgment
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