Roundup Ready Soybeans vs. Conventional Soybeans
Barry Ward, Agriculture and Natural Resources Extension Agent
Ed Lentz, Extension Agronomy Specialist

Objective
To determine yield and moisture differences in conventional soybean production systems vs. Roundup Ready soybean systems.

Background
Cooperator: Marion HS FFA
Herbicide (conv.): POST: Flexstar (1.25 pt/A), Firstrate (0.2 oz/A), Fusion (8 oz/A)
County: Marion
Nearest Town: Marion
Soil Type: Milford
Herbicide (RR): POST: Roundup Ultra (1 qt/A)
Tillage: No-till
Planting Date: June 2, 1998
Row Width: 7 inches

Methods
Two varieties of Roundup Ready soybeans were planted in a randomized complete block experiment with two varieties of conventional soybeans from the same seed company. Four replications were used of each variety in 25' x 175' side by side strips.

Results

<table>
<thead>
<tr>
<th>Variety</th>
<th>Harvest Moisture (%)</th>
<th>Yield (bu/A @ 13% moisture)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pioneer 9396RR</td>
<td>12.2</td>
<td>51.04</td>
</tr>
<tr>
<td>Pioneer 92B51RR</td>
<td>12.1</td>
<td>50.26</td>
</tr>
<tr>
<td>Pioneer 9395</td>
<td>12.0</td>
<td>49.30</td>
</tr>
<tr>
<td>Pioneer 9245</td>
<td>11.9</td>
<td>52.87</td>
</tr>
</tbody>
</table>

F-Test 1.18             Significance (P=0.05) NS
CV 5.5%                  NS

Summary and Notes
Differences were noted in the overall appearance of the bean plants after post applications of conventional herbicide program. Plant foliage of conventional soybeans was noticeably burnt by Roundup drifting from adjacent Roundup Ready plots. No significant differences were found in yields among the four varieties, and no differences were detected between the conventional soybeans and Roundup Ready soybeans.

For additional information, contact: Barry Ward
The Ohio State University Extension
ward.8@osu.edu