Roundup Ready Soybean Variety Evaluation in a Modified Relay Intercropping System
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Objective

To evaluate the yields of two Roundup Ready soybean varieties in a Modified Relay Intercropping (MRI) system.

Background

Cooperator: OSU Unger Farm
County: Crawford
Soil Type: Blount
Drainage: Systematic
Soil Test: pH 6.9, P 31 ppm, K 122 ppm
Variety A: Asgrow AG2701 (2,750 seeds/lb)
Variety B: Pioneer 93B01 (3,200 seeds/lb)
Fertilizer: 26-104-120 fall applied
Herbicide: Roundup Ultra (1 qt/A)
Herbicide: 103 lbs/A nitrogen pre-plant
Planting Rate: 75 lbs/A
Interseed Date: June 8, 1998

Methods

Soybeans were planted into 10-inch row wheat with a Great Plains 1500 drill. Drill was on a three-point hitch of the tractor to plant soybeans. The same drill was used for both wheat and soybean planting. Twenty-inch tram lines were also established in the 15' wide plots. Weeds present included giant ragweed, volunteer wheat, giant foxtail, lambs quarter, Canada thistle, field bindweed. Experiment design was completely randomized with three replications.

Results

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield (bu/A)</th>
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<tbody>
<tr>
<td>Asgrow A2701</td>
<td>41.97</td>
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<tr>
<td>Pioneer 93B01</td>
<td>39.77</td>
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F = 1.13 Not significant at P = 0.05 CV = 6.2%

Summary and Notes

Roundup Ready soybeans performed very well in a Modified Relay Intercropping system in 1998. The two varieties tested were not significantly different from each other.

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