FIELD EXPERIMENT HISTORY

Title: Organic Hybrid Comparison

Experiment: 01 Organic-SARE  Trial ID: 3191  Year: 2008

Personnel: J.G. Lauer, K.D. Kohn and T. Diallo

Location: Arlington, WI  County: Columbia

Supported By: SARE

Site Information

Field: Previous Crop: Soybean  Soil Type: Plano Silt Loam

Soil Test: Date: 11/1/08  pH: 6.9  OM (%): 3.9  P (ppm): 36  K (ppm): 125

Plot Management

Tillage Operations: Chisel Plow  Disk  Field Digger  Soil Finisher  
CultiMulcher  Tine Weed  Rotary Hoe  Cultivate

Fertilizer: Preplant: CPM 1.2 Ton  4/29/08
Starter: N/A  N/A  N/A
Post plant: N/A  N/A  N/A

Manure: Dairy 5952 gal  4/28/08
Dairy 7935 gal  4/7/08
Dairy 18.4 Ton  11/15/07
Dairy 1323 gal  10/25/07

Herbicide: None

Irrigation: None

Hybrid: None

Insecticide: None

Analysis: Rate lbs/A: Date:

Planting Date: 5/21/08  Planting Depth: 1.5"  Row Width: 30"

Target Plant Density: 33000 plants per acre

Harvest Date: 11/3/08

Experimantal Design

Design: RCB

Replications: 3

Plot Size Seeded: 200' x 90'

Experiment Size: 5.5 Acre

Harvest Plot Size: 5' x 200'  5' x 125'

Harvest Plant Density: 33000 plants per acre

Factors/Treatments:

Hybrids:

Blue River 49M37
Blue River 52A20
Blend of 49M37 and 52A20

Results: Table C-20.
### Table C-20. Organic Hybrid Comparison - SARE.

**Arlington, WI - 2008.**

<table>
<thead>
<tr>
<th>Hybrid</th>
<th>Grain yield</th>
<th>Grain moisture</th>
<th>Test weight</th>
<th>Lodged Total</th>
<th>Lodged Stalk</th>
<th>Lodged Root</th>
<th>Grower return</th>
<th>Harvest population</th>
<th>Plant height</th>
<th>Vegetative cover</th>
<th>Weed biomass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue River 49M37</td>
<td>154</td>
<td>26.5</td>
<td>55</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td>508</td>
<td>33667</td>
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<td>Blue River 52A20</td>
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<td>26.3</td>
<td>55</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>525</td>
<td>33000</td>
<td>104</td>
<td>92</td>
<td>1</td>
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<tr>
<td>Blend</td>
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<td>25.2</td>
<td>55</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>545</td>
<td>32333</td>
<td>105</td>
<td>88</td>
<td>2</td>
</tr>
<tr>
<td>Mean</td>
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<td>26.0</td>
<td>55</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>526</td>
<td>33000</td>
<td>104</td>
<td>90</td>
<td>2</td>
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</tbody>
</table>

**Probability(%)**

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<tr>
<th>Hybrid (H)</th>
<th>Grain yield</th>
<th>Grain moisture</th>
<th>Test weight</th>
<th>Lodged Total</th>
<th>Lodged Stalk</th>
<th>Lodged Root</th>
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<th>Vegetative cover</th>
<th>Weed biomass</th>
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<tr>
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<td>75.0</td>
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<td>43.6</td>
<td>64.0</td>
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<td>25.6</td>
<td>32.7</td>
<td>44.4</td>
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</tbody>
</table>

**LSD (0.10)**

<table>
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<tr>
<th>Hybrid (H)</th>
<th>Grain yield</th>
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<th>Test weight</th>
<th>Lodged Total</th>
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<th>Vegetative cover</th>
<th>Weed biomass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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