Effects of QLF TS Terra Fed® and Organic Renewal™ on Organically Grown Corn - Clay County

Cooperator: Lynn Brakke Organic Farms
Nearest Town: Comstock, MN
Soil Type: Bearden loam
Tillage: Spring: One pass with a field cultivator
Previous Crop: Soybean
Planting Date: 5/18/11
Variety: Bison 1
Row Width: 22 inch
Fertilizer: QLF TS Terra Fed® and Organic Renewal™ was applied to the soil on each side of the middle row of three row plots (30 feet long) at 10 gal/ac using a CO₂ pressurized plot sprayer. No spray solution was applied to the untreated check. After application the soil on each side of the middle row in all plots, including the untreated check, was cultivated using a hand held garden hoe.

Planting Population: 32,000 plants/ac
Harvest Date: 10/3/11
Experimental Design: Latin Square with four replicates.

Purpose of Study:
Evaluate the effects of soil applied QLF TS Terra Fed® and Organic Renewal™ on corn yield and quality in an organic production system.

Results:
Twenty feet of row was harvested from the middle row of each three row plot and used to determine yield and quality.

There were no significant difference observed between treatments for yield, protein and oil.

Table 1. Yield and seed quality from organically grown corn treated with QLF TS Terra Fed® or Organic Renewal™. Comstock, MN, 2011.

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Spray date</th>
<th>Growth stage</th>
<th>Yield (bu/ac)</th>
<th>Protein (%)</th>
<th>Oil (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Untreated check</td>
<td>---</td>
<td>---</td>
<td>121.4</td>
<td>7.2</td>
<td>4.8</td>
</tr>
<tr>
<td>Organic Renewal™ 3.2 fl oz/ac</td>
<td>7/12</td>
<td>V10</td>
<td>129.3</td>
<td>7.2</td>
<td>4.9</td>
</tr>
<tr>
<td>QLF TS Terra Fed® 5 gal/ac</td>
<td>7/12</td>
<td>V10</td>
<td>123.9</td>
<td>6.9</td>
<td>5.0</td>
</tr>
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</tr>
</tbody>
</table>

LSD _0.05_ = NS NS NS