Soybean Response to High Fertility Management

Objective

• Evaluate soybean yield response to a high soil fertility system in the Red River Valley of the North.

Study Description

Plot Layout: On-farm, full field
Locations: Elbow Lake, MN
Mahnomen, MN
Pioneer® Brand Variety: 90Y70 (RR)
Soil Fertility:
High Fertility Program
12 lbs/acre Nitrogen
40 lbs/acre Phosphorous
60 lbs/acre Potassium
10 lbs/acre Sulfur
No Additional Fertilizer

• Fertilizer treatments were applied immediately after planting.

Results

Soybean Yield at Elbow Lake

<table>
<thead>
<tr>
<th>Soybean Yield (bu/acre)</th>
<th>High Fertility</th>
<th>No Additional Fertilizer</th>
</tr>
</thead>
<tbody>
<tr>
<td>57.5</td>
<td></td>
<td>57.2</td>
</tr>
</tbody>
</table>

Soybean Yield at Mahnomen

<table>
<thead>
<tr>
<th>Soybean Yield (bu/acre)</th>
<th>High Fertility</th>
<th>No Additional Fertilizer</th>
</tr>
</thead>
<tbody>
<tr>
<td>49</td>
<td></td>
<td>47.6</td>
</tr>
</tbody>
</table>

• Soybean yields were similar between high fertility and normal fertility programs at both locations.
• Results presented here are for year one of a multiyear study.

RR - Contains the Roundup Ready® gene.

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