2007 Solution Days
Soybeans - Planting Less... Get More
Soybeans – Planting Less ... Get More

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Variety Select Made Simple

- Pick a variety that will give you the highest yield in all soil types and environments
- Select a variety that will mature one day before the first killing frost
- Select a variety that will not abort flowers and pods
- Select a variety that is resistant to all disease and insects

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Weed Management

Seed treatments (field activity)

- Where does seed treatment pays?
  - Disease
  - Insects
  - Fertility
- Field history
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**Foliar Treatments**

- **KSU**
  - V4 → Mn Chelate at 1 Qt./Acre
  - V8 → Mn Chelate at 1 Qt./Acre

- **ISU**
  - V5 → Elemax

**Take Home**

- **Know Your Field History**
  - pH
  - Disease
  - Insects
  - Soil Characteristics

- **Plant Early**
  - Population
  - Seed Treatments
  - Fertility
  - Weed Management

**Soybean Yield Components**

- What are the yield components?
- They are:
  - Number of Plants/Acre
  - Number of Nodes/Plant
  - Number of Pods/Node
  - Number of Seeds/Pod
  - Size of Seeds Produced

**Selection Factors**

- Soil Characteristics
  - SCN

- pH
  - Rotation Value
Yield and Canopy

Effect of Early Planting on Diseases

- The planting rate for maximizing yield and canopy is not the same.
- Weed-crop competition must be considered when determining planting rates.

Source: KSU, 1996

<table>
<thead>
<tr>
<th>Disease</th>
<th>Conditions</th>
<th>Growth Stage</th>
<th>Disease Risk</th>
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</thead>
<tbody>
<tr>
<td>Pythium</td>
<td>cool-wet</td>
<td>before V2</td>
<td>increase</td>
</tr>
<tr>
<td>Rhizoctonia</td>
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<td>before V2</td>
<td>decrease</td>
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<tr>
<td>Phytophthora</td>
<td>warm-wet</td>
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<tr>
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</tr>
<tr>
<td>White Mold</td>
<td>cool-wet</td>
<td>flowering</td>
<td>varies</td>
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