Rhizoctonia Nursery
Michigan Sugar Company

- Reason, Rhizoctonia solani is an extensive problem
- Agriculturalist’s recommendations: <5% Susceptible variety and no Quadris
- Nursery; first in 2007
- Plant 2 locations
Inoculum

• Generate our own two years
  – Cultures from USDA, E. Lansing

• Dr. Linda Hanson volunteer
Trial Design

- Plant thick and thin
- 2 row plots
- 25 feet long (16’)
- 6 replications
Inoculation

- Ground barley
- Apply band over row
- Inoculate middle of July
- Inoculate before rain
- Irrigation at one location
Inoculation

Amount used

- 2007  .7 gm/ft
- 2008  1.0 gm/ft
- 2009  .6 gm/ft
- 2010  .7 gm/ft
Rating

0= No Rhizoctonia
1= Superficial, arrested lesions
2= 2-5% rot
3= 5-25% rot
4= 25-50% rot
5= 50-75% rot
6= Rotted root, few green leaves
7= Dead or missing root
Rating

• Three groups of two rating
  – Each group rates complete reps

• Count beets at inoculation time.
  – Roots not there at harvest-give a 7
Mean = 4.51, Range = 3.76 – 5.26
Rating Time

- Wide range of ratings
  - Do not use a resistant or susc. check

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<th>Year</th>
<th>Low</th>
<th>High</th>
<th>Mean</th>
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<td>2.61</td>
<td>5.17</td>
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<tr>
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<tr>
<td>2009</td>
<td>3.76</td>
<td>5.26</td>
<td>4.51</td>
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Questions