2011 CMDC
Soybean Cyst Nematode
Gielser and Wilson

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2011 University of Nebraska-Lincoln Extension CMDC
**Soybean Cyst Nematode**

25 New Counties Identified (2005 - 2010)

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**UNL SCN RESEARCH**

2006 - 2010

Ave. yield: 18 infested sites
- Resistant varieties: 55.9 bu/A
- Susceptible varieties: 50.7 bu/A

Ave. yield: 8 non-infested sites
- Resistant varieties: 62.8 bu/A
- Susceptible varieties: 65.4 bu/A

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**UNL SCN RESEARCH**

2006 - 2010

Egg counts at 15 infested sites
(eggs per 100 cc’s of soil)

Egg count: susceptible varieties
- Spring: 1,698 eggs
- Fall: 5,026 eggs + 196%

Egg count: resistant varieties
- Spring: 2,149 eggs
- Fall: 1,372 eggs - 36%

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**SCN Population Example**

With Initial Population of 1,000 eggs/100ccs soil

<table>
<thead>
<tr>
<th>Crop</th>
<th>Change</th>
<th>Eggs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn</td>
<td>-25%</td>
<td>750</td>
</tr>
<tr>
<td>Soyb</td>
<td>-36%</td>
<td>480</td>
</tr>
<tr>
<td>Corn</td>
<td>-25%</td>
<td>360</td>
</tr>
<tr>
<td>Soyb</td>
<td>-36%</td>
<td>230</td>
</tr>
<tr>
<td>Corn</td>
<td>-25%</td>
<td>173</td>
</tr>
<tr>
<td>Soyb</td>
<td>-36%</td>
<td>111</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Crop</th>
<th>Change</th>
<th>Eggs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn</td>
<td>-25%</td>
<td>750</td>
</tr>
<tr>
<td>Soyb</td>
<td>+196%</td>
<td>2,220</td>
</tr>
<tr>
<td>Corn</td>
<td>-25%</td>
<td>1,665</td>
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<tr>
<td>Soyb</td>
<td>+196%</td>
<td>4,928</td>
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<tr>
<td>Corn</td>
<td>-25%</td>
<td>3,696</td>
</tr>
<tr>
<td>Soyb</td>
<td>+196%</td>
<td>10,941</td>
</tr>
</tbody>
</table>
SCN Population Decline After 1 Year Corn Rotation

Average = 60%
Range = 0 - 98%

Egg count/100 soil

Site number