Insect Management in Lettuce
- 2003 Research Update -
Where do Avaunt and Intrepid fit in Fall Management Programs?

When and How much?
<table>
<thead>
<tr>
<th></th>
<th>Stand Establishment</th>
<th>Post-thinning to Pre-heading</th>
<th>Heading to Harvest</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Coty 2-4 If 4-8 If 9-14 If Pre-heading Early Head Head 2-4&quot; Head &gt;4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Success</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proclaim</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Avaunt</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intrepid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Confirm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lannate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Larvin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orthene or Endosulfan</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Stand-alone application
Tank-mix application
Efficacy of Avaunt and Intrepid on Head Lettuce

### Thinning
- Avaunt 3.5 oz
- Avaunt 4.8 oz
- Avaunt 6 oz
- Check

### Heading
- Intrepid 8 oz
- Intrepid 6 oz
- Intrepid 6 oz + Warrior 3.2 oz
- Check

Date:
- Sep 30
- Oct 7
- Oct 14
- Oct 21
- Oct 28
- Nov 4
Efficacy of Avaunt and Intrepid on Head Lettuce

**Thinning**

- Avaunt 3.5 oz
- Avaunt 4.8 oz
- Avaunt 6 oz
- Check

**Heading**

- Intrepid 8 oz
- Intrepid 6 oz
- Intrepid 6 oz + Warrior 3.2 oz
- Check
<table>
<thead>
<tr>
<th>Product</th>
<th>Stand Establishment</th>
<th>Post-thinning to Pre-heading</th>
<th>Heading to Harvest</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Coty 2-4 If 4-8 If 9-14 If Pre-heading Early Head Head 2-4” Head &gt;4”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Success</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proclaim</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Avaunt</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intrepid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Confirm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lannate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Larvin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orthene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Endosulfan</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Stand-alone application**

**Tank-mix application**
Absolute Sampling
Counting all thrips with a Plant Wash technique
Beat Pan
Direct Visual Counts
Population Dynamics of Thrips in Head Lettuce
2003

- Beat Pan
- Direct counts
- Plant Wash

Oct 29th

Nov 14th
Direct Visual Counts (n=27)
~ 12% of what was actually on plant

\[ Y = 24.5 + 8.3x \]
\[ R^2 = 0.73 \]
Beat Pan Counts (n=27)

~ 20% of what was actually on plant

Y = -22.3 + 5.0x
R² = 0.85