Superior insect control in cotton and sorghum

Sap-feeding control
- Broad spectrum solution with great control of many sap-feeding insects
  - Plant Bugs
  - Aphids
  - Fleahoppers
- Unique mode of action, Group 4C insecticide
- Minimal impact on beneficial insects
- Does not flare mites or aphids
- Effective at low use rates

Application Rates Cotton

<table>
<thead>
<tr>
<th>Pest</th>
<th>Rate (fl oz/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tarnished Plant Bug and Western Tarnished Plant Bug</td>
<td>1.50 – 2.25</td>
</tr>
<tr>
<td>Cotton Aphid</td>
<td>0.75 – 1.0</td>
</tr>
<tr>
<td>Fleahoppers</td>
<td>1.25</td>
</tr>
</tbody>
</table>

Sugarcane aphid control
The only proven product under Section 18 emergency use exemptions to control Sugarcane Aphids
- Great knockdown and residual
- Unique mode of action, Group 4C insecticide
- Selective chemistry that has minimal impact on beneficial insects
- Does not flare mites or aphids
- Effective at low use rates – 1.5 oz./A delivers optimal control of Sugarcane aphids

Application Rates Sorghum

<table>
<thead>
<tr>
<th>Pest</th>
<th>Rate (fl oz./acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sugarcane Aphid</td>
<td>0.75 - 1.5</td>
</tr>
</tbody>
</table>

Use a higher rate in the rate range for heavy pest populations

Systemic and translaminar properties provide excellent residual control

- **Systemic Activity** - Moves upward through the plant xylem into new growth
- **Translaminar Activity** - Moves from the surface of the leaf to inside the leaf

Mode of entry into pest
- contact
- ingestion

Transform® program yield advantage
- **84**
  - Consultant large plot trials from 2013-2016

Trial data – cotton
average of 37 lint lbs per acre advantage
**Trial data – sorghum**

**knockdown efficacy of sugarcane aphids in sorghum**  
Wayside, MS - 2015-2016 (summary across 2 trials)

<table>
<thead>
<tr>
<th></th>
<th>Mean number of aphids per leaf</th>
</tr>
</thead>
<tbody>
<tr>
<td>Untreated</td>
<td></td>
</tr>
<tr>
<td>Top</td>
<td>639.2</td>
</tr>
<tr>
<td>Middle</td>
<td>600.9</td>
</tr>
<tr>
<td>Bottom</td>
<td>362.8</td>
</tr>
<tr>
<td>Sivanto – 4 fl oz</td>
<td>238.4</td>
</tr>
<tr>
<td>Transform® WG 1 oz</td>
<td>171</td>
</tr>
</tbody>
</table>

**Best management practices**

**Planting considerations**

a. Plant a resistant hybrid, if one fits for your area  
b. Use a seed treatment  
c. Plant early

**In season considerations**

a. Scout no matter what hybrid is planted  
b. Early infestations should be treated in a timely manner  
c. Always use labeled rates of the insecticide  
d. If multiple pests require management in addition to sugarcane aphid, be cognizant of pyrethroid impacts on natural enemy populations

Transform® may be tank mixed with a harvest aid if aphids are present near crop maturity

**Cotton restrictions**

- Pre-harvest Interval: 14 days  
- Minimum Treatment Interval: 5 days  
- Maximum of four applications per crop season  
- No more than two consecutive applications per crop  
- Maximum Number of Applications: Up to 8.5 oz (0.266 lb. a.i. of sulfoxaflor) of Transform® per acre per year

**Sorghum restrictions**

- Pre-harvest Interval: Do not apply within 14 days of grain or straw harvest or within 7 days of grazing, or forage, fodder, or hay harvest  
- A restricted entry interval (REI) of 24 hours must be observed  
- Comply with your state’s section 18 label for maximum applications per acre per year  
- Minimum Treatment Interval: Do not make applications less than 14 days apart  
- Do not apply more than a total of 3.0 oz Transform® WG (0.09 lb. a.i or sulfoxaflor per acre per year)  
- Application volumes by ground or air should be at least 5 GPA  
- Do not apply within 3 days of bloom or until after seed set  
- Applications are prohibited in wind speeds greater than 10 mph

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