Control of Mealybug Postharvest Through Bud Break

APPLAUD® insect growth regulator is very effective on mealybugs when applied postharvest through bud break. Applications of APPLAUD during this window reduces overwintering populations to more manageable levels in-season.

**Key Benefits of Using APPLAUD - Postharvest Through Bud Break**
- An excellent replacement for Lorsban®.
- Controls overwintering nymphs and hatching eggs, reducing mealybug pressure in-season. Decreasing mealybug populations also aids in reducing potential of virus transmission.
- Helps avoid detection of residues in grapes (table, raisin, wine) at harvest.
- APPLAUD is not disruptive to beneficial insects – does not compromise parasitoids at postharvest application timing which is when beneficiaries are most active at controlling adult mealybug.
- Long residual protection.
- Fuming action of APPLAUD allows the product to reach overwintering mealybug stages under the bark or as it moves around.

**Insects Controlled**
- Mealybugs – grape mealybug, vine mealybug

**Use Information**
- Rate: 12 to 24 oz/A
- 200 gallons water per acre
- Spray coverage of the entire vine (whole trunk and arms) is essential for optimum insect control.

**Product Information**
- Reentry Interval (REI): 12 hrs
- Preharvest Interval (PHI):
  - 12 oz rate – 7 days
  - 24 oz rate – 30 days
- Group 16 Insecticide

Refer to the global MRL database for current established tolerances [www.globalmrl.com/db#query](http://www.globalmrl.com/db#query)
Efficacy of Applaud in Grapes

Efficacy of Applaud on Vine Mealybug in Grape - Postharvest

- Percent Infested Clusters at Harvest

<table>
<thead>
<tr>
<th>Control</th>
<th>Fall Applaud 12 oz</th>
<th>Fall Lorsban 2 qt</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>b</td>
<td>b</td>
</tr>
</tbody>
</table>

October applications
Fisher's protected LSD Test

Walt Bentley, UCCE, Sanger, CA

Efficacy of Applaud on Vine Mealybug in Table Grapes - Postharvest

- Mealybug Counts/3 minute sample

<table>
<thead>
<tr>
<th>Brigade 16 oz</th>
<th>Applaud 12 oz</th>
<th>Venom WSG 3 oz</th>
<th>Assail 2.5 oz</th>
<th>Lorsban 4E 2 qt</th>
<th>Untreated</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>b</td>
<td>b</td>
<td>b</td>
<td>b</td>
<td>a</td>
</tr>
</tbody>
</table>

Application: August 2007
Evaluation: May of 2008
F = 8.29  P < .0001

David Haviland, Arvin, CA

Efficacy of Applaud on Vine Mealybug in Grape - Delayed Dormant

- Mealybugs/1 minute count on trunk

<table>
<thead>
<tr>
<th>Applaud 12 oz</th>
<th>Applaud 24 oz</th>
<th>Lorsban 4E 2 pt</th>
<th>Untreated</th>
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</table>

Application: March 13
Evaluation: May 21
Spray volume: 100 GPA

Bob Van Steenwyk, UCB, Escalon, CA