GRAPE: *Vitis labrusca* L., ‘Concord’

CHEMICAL EVALUATIONS FOR CONTROL OF GRAPE BERRY MOTH ON GRAPES, 2007:

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Grape Berry Moth: *Paralobesia viteana* (Clemens)

Treatments were evaluated for efficacy against the grape berry moth in an experimental ‘Concord’ vineyard at Wooster, Ohio. Plots consisted of two grape vines, with 5 replications per treatment in a randomized block design. Treatments were applied as foliar sprays at a rate of 100 gpa (935 liter/ha) on 29 Jun, and 30 Jul using a hand-held CO$_2$ sprayer operating at 45 psi (3.2 kg/cm$^2$) and equipped with a 9505-E-TeeJet nozzle. A non-ionic surfactant was added to all treatments at the rate of 0.125 vol/vol. On 18 Sep, all the grape clusters in each replicate plot were examined to determine the number of clusters infested by grape berry moth.

Results indicated that all of the treatments were statistically better than the check, with no statistical differences within the treatments themselves. The insect growth regulator Intrepid performed the best with no detectable berry moth damage. This was the first time we tested a new product Altacor (rynaxypyr) by DuPont. It should be noted that grape berry moth pressure was the lowest we have seen in more than 20 years with damage below the threshold level of 3% even in the untreated control plots. No phytotoxicity was observed in any of the treatments.

<table>
<thead>
<tr>
<th>Treatment/formulation</th>
<th>Amt form/acre</th>
<th>Mean no. of infested clusters/replicate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Altacor 35WG</td>
<td>4.00 oz</td>
<td>0.20a</td>
</tr>
<tr>
<td>Assail 30WSG</td>
<td>5.30 oz</td>
<td>0.20a</td>
</tr>
<tr>
<td>Danitol 2.4 EC</td>
<td>10.70 oz</td>
<td>0.60a</td>
</tr>
<tr>
<td>Intrepid 2F</td>
<td>8.00 oz</td>
<td>0.00a</td>
</tr>
<tr>
<td>Check (untreated)</td>
<td>---</td>
<td>2.40b</td>
</tr>
</tbody>
</table>

Means within the same column followed by the same letter are not significantly different as determined by LSD test (P = 0.05).