Pome Fruits—Chemical Control

Apple, Leafminer Control with Carbaryl

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Carbaryl was applied at different times in the pre-bloom period of apple and compared with oxamyl for control of WTLM and to ascertain effects on PF. Treatments were applied to one acre blocks of Golden Delicious (25 years old on seedling roots) with a Bean air blast sprayer at 400 psi as a dilute spray of 400 gallons per acre. The tight cluster treatment was made on April 8, the first pink application was made on April 12 and the full pink application on April 18. After the first WTLM generation, May 31, the number of mines that could be found in a 2-minute search on each of 10 trees per treatment was recorded. All mined leaves found during the search (to a maximum of 5 per tree) were collected into a plastic bag and returned to the laboratory where they were dissected to determine the level of parasitism by PF.

<table>
<thead>
<tr>
<th>Material, amount per acre</th>
<th>Application date</th>
<th>WTLM mines/leaf$^1$</th>
<th>% WTLM</th>
<th>% parasitized</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sevin XLR, 1 qt</td>
<td>4/8/91</td>
<td>3.7bc</td>
<td>46.9</td>
<td>50.0</td>
</tr>
<tr>
<td>Sevin XLR, 1 qt</td>
<td>4/12/91</td>
<td>4.5c</td>
<td>58.8</td>
<td>37.3</td>
</tr>
<tr>
<td>Sevin XLR, 1 qt</td>
<td>4/18/91</td>
<td>0.5a</td>
<td>40.0</td>
<td>60.0</td>
</tr>
<tr>
<td>Vydate 2L, 1 qt</td>
<td>4/18/91</td>
<td>0.5a</td>
<td>90.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Untreated</td>
<td>---</td>
<td>3.0b</td>
<td>26.3</td>
<td>73.7</td>
</tr>
</tbody>
</table>

$^1$Means in the same column followed by the same letter not significantly different (P=0.05, Student-Newman-Keuls).