**VEGETABLE CROPS INSECTICIDE AND ACARICIDE TESTS**

### Treatment and lb (AI)/acre

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pounce 3.2EC</td>
<td>0.1</td>
<td>11.0ab</td>
<td>39.8bd</td>
<td>2.8c</td>
<td>3.5ef</td>
</tr>
<tr>
<td>Pounce 3.2EC</td>
<td>0.2</td>
<td>24.3ab</td>
<td>48.5d</td>
<td>2.8c</td>
<td>3.5ef</td>
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<td>Pounce 3.2EC</td>
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<td>0.3a</td>
<td>8.3ac</td>
<td>2.0ab</td>
<td>2.8be</td>
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<tr>
<td>Ambush 2EC</td>
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<td>17.0ab</td>
<td>49.8d</td>
<td>2.9bc</td>
<td>3.9de</td>
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<tr>
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<td>7.0ab</td>
<td>2.5ab</td>
<td>1.5a</td>
<td>2.8be</td>
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<td>Ambush 2EC</td>
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<td>6.4 oz/A</td>
<td>33.5b</td>
<td>55.8d</td>
<td>3.0c</td>
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<tr>
<td>Ambush 2EC</td>
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<td>6.4 oz/A</td>
<td>3.8a</td>
<td>44.0cd</td>
<td>2.3bc</td>
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<td>10.3ab</td>
<td>42.5cd</td>
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<td>Pay-off 2.5EC</td>
<td>0.04</td>
<td>1.6a</td>
<td>2.3a</td>
<td>0.4a</td>
<td>0.8a</td>
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<td>Pay-off 2.5EC</td>
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<td>1.9a</td>
<td>1.7a</td>
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<tr>
<td>U-5629S 85WP</td>
<td>0.9</td>
<td>2.3a</td>
<td>4.2a</td>
<td>0.4a</td>
<td>1.8a</td>
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<tr>
<td>Monitor 4L</td>
<td>1.0</td>
<td>2.6a</td>
<td>3.3a</td>
<td>1.2a</td>
<td>1.8a</td>
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<td>U-5629S 85WP</td>
<td>0.45</td>
<td>2.8a</td>
<td>3.8a</td>
<td>0.8a</td>
<td>2.8a</td>
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<td>Monitor 4L</td>
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<td>4.9a</td>
<td>5.4a</td>
<td>0.6a</td>
<td>2.8a</td>
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<td>Sevin 4XL</td>
<td>0.50</td>
<td>5.2a</td>
<td>3.1a</td>
<td>1.2a</td>
<td>2.8a</td>
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<td>Lannate 1.8L</td>
<td>0.45</td>
<td>5.4a</td>
<td>4.6a</td>
<td>3.1ab</td>
<td>2.8a</td>
</tr>
<tr>
<td>Standak 2.67F</td>
<td>3.0</td>
<td>37.6b</td>
<td>28.7b</td>
<td>4.9b</td>
<td>7.2b</td>
</tr>
<tr>
<td>Standak 2.67F</td>
<td>2.0</td>
<td>37.6b</td>
<td>28.7b</td>
<td>6.3ab</td>
<td>7.2b</td>
</tr>
<tr>
<td>Untreated</td>
<td>38.2b</td>
<td>24.6b</td>
<td>20.8b</td>
<td>7.2b</td>
<td>7.2b</td>
</tr>
</tbody>
</table>

**Mean separation (P = 0.05; DMRT).**

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**TOMATO: Lycopersicon esculentum Mill. 'Pik Red'**

Tomato fruitworm: Heliothis zea (Boddie)

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**TOMATO FRUITWORM CONTROL, 1982:** 'Pik Red' tomatoes were planted on 27 July near Benson, N.C. Treatment plots were replicated four times in a randomized complete block design. Each plot consisted of single rows 10 ft long on 5-ft centers. Standak 2.67F was applied in 0.5 pt of transplant water per plant as a preplant treatment. The soil type was a sandy loam composed of 0.6% organic matter with a pH of 6.0. Soil temperature was 30°C and soil moisture was adequate. Foliar treatments were applied using a CO₂ pressurized backpack sprayer with a single hollow cone nozzle delivering 100 gal/acre at 40 lb/in². Dates of foliar applications were 25 Aug., and 1, 8, 15, 22, and 26 Sept. Bravo 500 and Maneb 80W were utilized for disease control. Ripe fruits were harvested and percent tomato fruitworm (TFW) infested fruit determined on 14 and 28 Sept., and 6 Oct.

TFW infestation was heaviest from mid to late Sept. and decreased with the onset of cooler weather in Oct. All treatments except Standak 2.67F (both rates) resulted in significantly lower percent fruit damaged on 6 Oct. compared with the untreated check. No phytotoxicity was observed.

### Mean % infested fruit

<table>
<thead>
<tr>
<th>Treatment and lb (AI)/acre</th>
<th>14 Sep.</th>
<th>28 Sep.</th>
<th>6 Oct.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pay-off 2.5EC</td>
<td>1.6a</td>
<td>2.3a</td>
<td>0.4a</td>
</tr>
<tr>
<td>Pay-off 2.5EC</td>
<td>1.9a</td>
<td>1.7a</td>
<td>0.0a</td>
</tr>
<tr>
<td>U-5629S 85WP</td>
<td>2.3a</td>
<td>4.2a</td>
<td>0.4a</td>
</tr>
<tr>
<td>Monitor 4L</td>
<td>2.6a</td>
<td>3.3a</td>
<td>1.2a</td>
</tr>
<tr>
<td>U-5629S 85WP</td>
<td>2.8a</td>
<td>3.8a</td>
<td>0.8a</td>
</tr>
<tr>
<td>Monitor 4L</td>
<td>4.9a</td>
<td>5.4a</td>
<td>0.6a</td>
</tr>
<tr>
<td>Sevin 4XL</td>
<td>5.2a</td>
<td>3.1a</td>
<td>1.2a</td>
</tr>
<tr>
<td>Lannate 1.8L</td>
<td>5.4a</td>
<td>4.6a</td>
<td>3.1ab</td>
</tr>
<tr>
<td>Standak 2.67F</td>
<td>33.4b</td>
<td>18.3b</td>
<td>9.4b</td>
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<td>Standak 2.67F</td>
<td>37.6b</td>
<td>28.7b</td>
<td>6.3ab</td>
</tr>
<tr>
<td>Untreated</td>
<td>38.2b</td>
<td>24.6b</td>
<td>7.2b</td>
</tr>
</tbody>
</table>

**Mean separation (P = 0.05; DMRT).**

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CPB, Colorado potato beetle. Numbers in the same column followed by the same letter are not significantly different (P = 0.05), by Fisher's protected LSD.