2014 - Dickinson Co., KS.

Jeff Whitworth, Holly Schwarting, Department of Entomology, Kansas State University

Pest: Corn Earworms (CEW), *Helicoverpa zea*

Crop: Corn, *Zea Mays.*

Plot Size: 2 rows x 45 ft.

Experimental Design: Randomized Complete Block; 4 Replications

Information: Sprayed with hand sprayer delivering 15 gal/acre at ca. 30 psi on 6 July, 104°F with no wind. Corn just silking.

Planted: 22 April; Germinated 6/7 May

Phytotoxicity: None noted, no other effects on non-target organisms noted.

Evaluation: CEW evaluations conducted on 12 July (6 DAT), 19 July (13 DAT), 28 July (22 DAT). 5 corn ears randomly selected and evaluated for presence of CEW.

Special Notes: Very few CEW present until 28 July, soft dough stage when 95-100% of ears were infested.
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<table>
<thead>
<tr>
<th>Treatment</th>
<th>No. CEW/5 ears 12 July (6 DAT)</th>
<th>No. CEW/5 ears 19 July (13 DAT)</th>
<th>No. CEW/5 ears 28 July (22 DAT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Untreated</td>
<td>1.8 ± 0.6a</td>
<td>1.5 ± 0.5a</td>
<td>5.0 ± 0.0a</td>
</tr>
<tr>
<td>Belt @ 2.0 oz/acre</td>
<td>0.5 ± 0.5b</td>
<td>0.5 ± 0.3b</td>
<td>5.0 ± 0.0a</td>
</tr>
<tr>
<td>Belt @ 3.0 oz/acre</td>
<td>0.0 ± 0.0b</td>
<td>0.0 ± 0.0b</td>
<td>4.8 ± 0.3a</td>
</tr>
<tr>
<td>Beseige @ 7.0 oz/acre</td>
<td>0.0 ± 0.0b</td>
<td>0.3 ± 0.3b</td>
<td>5.0 ± 0.0a</td>
</tr>
</tbody>
</table>

Means within a column followed by the same letter are not significantly different ($P>0.05$; PROC ANOVA; Mean comparison by LSD [SAS Institute 2003]).

Reference to specific products is provided solely for informational purposes. Experiments with pesticides on non-labeled crops or pests is part of the insecticide registration process, it does not imply endorsement or recommendation of non-labeled uses of pesticides by Kansas State University. All pesticide use must be consistent with current labels.

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