2010 Corn Efficacy Trial –
North Farm – Riley Co., KS.

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Pest: General lepidopteran pests (Corn earworm, primarily on ears)
Crop: corn; 3 treatments
Location: Riley Co., KS
Planting Date: 10 June, 2010
Plot Size: 4 rows. x 20 ft.
Experimental Design: Randomized Complete Block; 4 Replications

Phytotoxicity: None noted

Evaluation: 9 July – Plants rated for visible signs of foliar feeding. 8 plants per row given a damage rating of 0-9, where 0= no feeding damage, 1= 1 leaf with feeding damage... 9= all leaves have feeding damage.
29 September – 5 ears randomly selected from each plot and returned to lab to take damage measurements as per protocol.
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<table>
<thead>
<tr>
<th>Treatment</th>
<th>Stand counts plants/20ft row (Mean ± SE)</th>
<th>Foliar feeding damage (Mean ± SE)</th>
<th>Avg. kernels eaten/ear (Mean ± SE)</th>
<th>Avg. kernels around each ear (Mean ± SE)</th>
<th>Avg. kernels in length/ear (Mean ± SE)</th>
<th>Avg. length of 10 kernels/ear (Mean ± SE)</th>
<th>Avg. width of 10 kernels/ear (Mean ± SE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistant</td>
<td>27.6 ± 1.9b</td>
<td>0.3 ± 0.5b</td>
<td>39.2 ± 4.6b</td>
<td>17.8 ± 1.2a</td>
<td>32.6 ± 0.9a</td>
<td>11.2 ± 0.3a</td>
<td>4.4 ± 0.2a</td>
</tr>
<tr>
<td>Resistant</td>
<td>43.5 ± 3.3a</td>
<td>0.4 ± 0.1b</td>
<td>79.4 ± 9.0a</td>
<td>16.0 ± 0.4ab</td>
<td>33.2 ± 1.1a</td>
<td>11.7 ± 0.2a</td>
<td>4.3 ± 0.1a</td>
</tr>
<tr>
<td>Susceptible</td>
<td>32.5 ± 3.5b</td>
<td>1.7 ± 0.6a</td>
<td>83.4 ± 9.0a</td>
<td>14.0 ± 0.4a</td>
<td>23.8 ± 1.3b</td>
<td>9.7 ± 0.2b</td>
<td>4.6 ± 0.2a</td>
</tr>
</tbody>
</table>

Means within a column followed by the same letter are not significantly different ($P>0.05$; PROC GLM; 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.

**Kansas State University Agricultural Experiment Station and Cooperative Extension Service**