2013 Wheat Insecticide Efficacy Trial –
Dickinson Co., KS.

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

Pest: Aphids, various species
Crop: Wheat
Location: Dickinson Co., KS
Plot Size: 10 ft. x 30 ft.

Experimental Design: Randomized Complete Block; 4 Replications

Information: Sprayed with hand sprayer delivering 15 gal/acre at ca.30 psi on 8 June, 2013 when wheat was at Feekes growth stage 10.54.

Phytotoxicity: None noted

Evaluation: 20 wheat heads/treatment /replication randomly selected and vigorously shaken into a Ziploc bag while pulling apart the grain on 16 June (8 DAT) when wheat was at Feekes growth stage 11.0 DAT = Days After Treatment

Special Notes: Pre-treatment counts conducted on 8 June, 2013. Average of 6 aphids/head – primarily English grain aphids, *Sitobion avenae*. 
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**Treatment Date:** 8 June, 2013  
**Sample Date:** 16 June, 2013

<table>
<thead>
<tr>
<th>No.</th>
<th>Treatment/Product Name</th>
<th>Aphids/20 plants (Mean ± SE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Untreated</td>
<td>29.5 ± 2.7a</td>
</tr>
<tr>
<td>2</td>
<td>Endigo ZCX 2.71 @ 4 oz./a. + COC 1%</td>
<td>2.8 ± 0.8b</td>
</tr>
<tr>
<td>3</td>
<td>Quilt Xcel @ 12 oz./a. + Warrior @ 1.92 oz. + COC 1%</td>
<td>2.3 ± 0.3b</td>
</tr>
<tr>
<td>4</td>
<td>Quilt Xcel @ 12 oz./a.</td>
<td>2.8 ± 0.5b</td>
</tr>
<tr>
<td>5</td>
<td>Cobalt Advanced @ 25 oz./a.</td>
<td>2.5 ± 0.6b</td>
</tr>
<tr>
<td>6</td>
<td>Cobalt Advanced @ 25 oz./a. + Headline @ 9 oz. + COC 1%</td>
<td>3.5 ± 0.3b</td>
</tr>
<tr>
<td>7</td>
<td>Besiege @ 9 oz./a.</td>
<td>1.8 ± 0.3b</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**