WHEAT: *Triticum aestivum* L.

**COLBALT ADVANCED AND LORSBAN ADVANCED INSECTICIDES FOR CONTROL OF GREENBUGS IN WINTER WHEAT-2012**

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Greenbug (GB): *Schizaphis graminum* (Rondani)

The trial was conducted in a furrow irrigated wheat field near Hereford, TX (Deaf Smith County). The insecticide treatments (Table 1) were applied on 5 Apr with a hand carried CO2 pressurized boom calibrated to spray at the rate of 14.5 gpa when held ca. 20 in. above the wheat. The 5 (XR8002VS) nozzle sprayer was set up with nozzles on 20 in. centers which treated an 8 ft swath within each 15 ft wide plot. The experiment was arranged in a RCB with 4 replications. Plots were 15 ft wide and 30 ft long. The GB (nymphs and adults) densities were counted from three (3) one linear ft sections per plot. Counts were taken 4 Apr before treatment (Pre-Trt) and on 9 Apr (4 DAT), 13 Apr (8 DAT), and 16 Apr (11 DAT) days after treatment (DAT). Data were analyzed using PROC GLM analysis of variance (SAS, 2009) and means were separated with Tukey’s studentized range test (P=0.05) and percent control was determined using Henderson’s 1925 Formula.

On 4 Apr (pre-treatment count), GB numbers were between 77 to 83 aphids per linear ft sample and there were no statistical differences among any of the treatments. Over the following 4, 8, 11 DAT counts, GB counts were statistically fewer for all insecticide treatments in comparison to the untreated and continued to provide effective GB control to the last date counted. The data shows that both Cobalt Advanced and Lorsban Advanced applications were equally effective in providing initial and sustained level of GB control.

| Treatment          | Rate fl oz/acre | Mean Number GB / Linear Row Ft Drill Row (% Control)
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<thead>
<tr>
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<tbody>
<tr>
<td></td>
<td>Pre-trt</td>
<td>4 DAT</td>
</tr>
<tr>
<td>Colbalt Advanced</td>
<td>6</td>
<td>81.8a</td>
</tr>
<tr>
<td>Colbalt Advanced</td>
<td>8</td>
<td>82.9a</td>
</tr>
<tr>
<td>Lorsban Advanced</td>
<td>12</td>
<td>83.3a</td>
</tr>
<tr>
<td>Untreated</td>
<td>---</td>
<td>76.8a</td>
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<tr>
<td>P&gt;F (Anova)</td>
<td>0.9644</td>
<td>0.0061</td>
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*Means in a column followed by the same letter are not significantly different according to Tukey’s studentized range test (P=0.05, SAS Institute 2009).  