SOYBEAN: *Glycine max*

EFFICACY OF SELECTED INSECTICIDES FOR CONTROL OF LEPIDOPTERAN PESTS IN SOYBEANS, 2012 (TEST 4)

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Soybean looper: *Chrysodeixis (Pseudoplusia) includens*  
Velvetbean caterpillar: *Anticarsia gemmatalis*

On 27 August 2012, a foliar insecticide study was conducted in soybeans on the Black Belt Branch Experiment Station in Brooksville, MS. Soybeans were at approximately R5 stage of maturity. Plots were designed in a randomized complete block with four replications. Plot size was 4 rows by 50 ft long on 38 in centers. Seven insecticide treatments were evaluated against the untreated control (UTC) for control of soybean looper (SBL) and velvetbean caterpillar (VBC). Insecticides were applied with a tractor-mounted sprayer calibrated to deliver 10.0 gpa at 60 psi through TX-6 Hollow Cone nozzles (2 per row). There were two sample dates following the application of treatments: 4 days after treatment (4 DAT) and 8 day after treatment (8 DAT). Plots were sampled by taking 25 sweeps per plot with a sweep net and recording the number of SBL and VBC larvae per 25-sweep sample. All data was log10 transformed. Data was analyzed with ANOVA and means were separated using Fisher’s Protected LSD ($P \leq 0.10$).

At 4 DAT, all products significantly reduced VBC populations below the UTC, however, no products were significantly different from each other. At 8 DAT, only Brigadier™, Triple Crown™, and the high rate of Justice™ significantly reduced VBC populations below the UTC, but none of those products were significantly different from each other. At 4 DAT, only Hero™ and Triple Crown™ reduced SBL populations below the UTC, but weren’t significantly different from each other. At 8 DAT, only Triple Crown™ significantly reduced SBL populations below the UTC.
Table 1. Average SBL and VBC Larvae /25 sweeps

<table>
<thead>
<tr>
<th>Product</th>
<th>Rate (lbs)</th>
<th>4 DAT VBC</th>
<th>4 DAT SBL</th>
<th>8 DAT VBC</th>
<th>8 DAT SBL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brigadier 2 EC</td>
<td>0.095</td>
<td>0.0b</td>
<td>9.0ab</td>
<td>0.5bc</td>
<td>17.8a</td>
</tr>
<tr>
<td>Hero 1.24 EW</td>
<td>0.062</td>
<td>0.5b</td>
<td>4.0bc</td>
<td>4.5abc</td>
<td>11.0a</td>
</tr>
<tr>
<td>Stallion 3.03 EC</td>
<td>0.278</td>
<td>0.0b</td>
<td>11.3ab</td>
<td>2.5abc</td>
<td>9.8a</td>
</tr>
<tr>
<td>Triple Crown 2.25 EC</td>
<td>0.084</td>
<td>2.3b</td>
<td>2.0c</td>
<td>0.0c</td>
<td>0.0b</td>
</tr>
<tr>
<td>Mustang Max 0.8 EC</td>
<td>0.025</td>
<td>1.0b</td>
<td>7.3ab</td>
<td>10.5ab</td>
<td>18.8a</td>
</tr>
<tr>
<td>Justice 1.8 EC</td>
<td>0.035</td>
<td>2.3b</td>
<td>13.0ab</td>
<td>3.8abc</td>
<td>22.5a</td>
</tr>
<tr>
<td>Justice 1.8 EC</td>
<td>0.07</td>
<td>1.5b</td>
<td>8.3ab</td>
<td>1.8bc</td>
<td>19.3a</td>
</tr>
<tr>
<td>UTC</td>
<td>11.8a</td>
<td>14.0a</td>
<td>28.8a</td>
<td>18.0a</td>
<td></td>
</tr>
</tbody>
</table>

LSD (0.10) 3.41 6.11 18.26 9.52

Means within a column sharing the same letter are not significantly different (LSD; P > 0.10).