



## Applied Research Report

---

### Foliar Insecticide Screening for Thrips Control

**Stephen Biles, Extension Agent - IPM for Calhoun, Refugio and Victoria Counties**  
**Joe Janak, County Extension Agent - AG**

**Cooperator: Milo Genetics, Victoria County**

### Summary

A trial was planted on 15 April 2007 with the purpose of evaluating the efficacy of seed treatments for thrips control in cotton. The higher rates of Intruder and Orthene reduced the thrips populations while the low rate Intruder and Vydate were not different from the control. Damage ratings indicate that the insecticide treatments were not different from each other but the Vydate treatment was not different from the untreated.

### Objectives

The objective of this project was to evaluate the efficacy of foliar insecticides for thrips control in cotton.

### Materials and Methods

A trial was planted on 15 April 2007 with the purpose of evaluating the evaluating the efficacy of seed treatments for thrips control in cotton. The cotton was planted at a rate of 3 seed per foot on 38 inch rows. Plots were 4 rows, 22 feet long

### Results

The higher rates of Intruder and Orthene reduced the thrips populations while the low rate Intruder and Vydate were not different from the control (Table 1). Damage ratings indicate that the insecticide treatments were not different from each other but the Vydate treatment was not different from the untreated.

**Table 1.** Thrips counts (#/5 plants) at 3 and 7 days after treatment (DAT) and damage ratings 13 DAT for various seed treatments and untreated cotton (Victoria County, TX, 2007).

|                     |                 | Thrips<br>#/5 plts<br>May-07-07<br>1-2 TL<br>3 DAT | Thrips<br>#/5 plts<br>May-11-07<br>5-6 TL<br>7 DAT | Damage<br>Rating<br>1-5<br>May-17-07<br>8-9 TL<br>13 DAT |         |
|---------------------|-----------------|--|--|--|---------|
| 1                   | Untreated       | 79 a   | 42 a   | 2.93 a   |         |
| 2                   | Intruder<br>COC | 0.026 LB A/A<br>1 PT/A                             | 26 ab  | 9 a  | 1.93 b  |
| 3                   | Intruder<br>COC | 0.035 LB A/A<br>1 PT/A                             | 13 b   | 12 a   | 1.70 b  |
| 4                   | Intruder<br>COC | 0.05 LB A/A<br>1 PT/A                              | 7 b  | 11 a   | 2.00 b  |
| 5                   | Vydate C-LV     | 17 OZ/A  | 18 ab  | 15 a   | 2.13 ab |
| 6                   | ORTHENE         | 3.2 OZ WT/A  | 13 b   | 8 a  | 2.07 b  |
| Tukey's HSD (P=.05) |                 | 61.1   | 39.4   | 0.826  |         |
| Standard Deviation  |                 | 26.6   | 17.2   | 0.360  |         |
| CV                  |                 | 102.91   | 106.43   | 16.93  |         |
| Replicate F         |                 | 1.587  | 0.510  | 1.412  |         |
| Replicate Prob(F)   |                 | 0.2341   | 0.6815   | 0.2782   |         |
| Treatment F         |                 | 4.067  | 2.217  | 5.431  |         |
| Treatment Prob(F)   |                 | 0.0156   | 0.1066   | 0.0048   |         |

Means followed by same letter do not significantly differ (P=.05, Tukey's HSD).

Trade names of commercial products used in this report are included only for better understanding and clarity. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by the Texas A&M University System is implied. Readers should realize that results from one experiment do not represent conclusive evidence that the same response would occur where conditions vary.