



2007 Adult Alfalfa Weevil Insecticide Efficacy Trial - Dickinson Co., KS.  
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|                      |  |
|----------------------|--|
| Pest:                | Alfalfa Weevil, <i>Hypera postica</i>  |
| Crop:                | Alfalfa, 8 treatments  |
| Location:            | Dickinson Co., Kansas  |
| Planting Date:       |  |
| Plot Size:           | 15 ft x 20 ft  |
| Experimental Design: | Randomized Complete Block; 4 Replications  |
| Information:         | Sprayed with hand sprayer delivering 20 gal/acre at 30 psi on 04/27/07   |
| Phytotoxicity:       | none noted   |
| Evaluation:          | Number of adult weevils per/sq.ft. in 2 locations/plot. All adults were counted on plants plus leaf litter (litter was disturbed and adults counted as they emerged for 1 minute).   |
| Special notes:       | Pre-treatment counts conducted on 04/27/07 had 43 adult weevil from four 1 sq. ft locations i.e. 10.78 adults weevil sample.<br>Sampling dates: May 01 (4DAT), May 04 (7DAT), May 11 (14 DAT), May 25 (28 DAT)<br>Adults were numerous and active until May 25 sample date which they seemed to start declining naturally and alfalfa finally started re-growth. |

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**Evaluation date:** May 01, May 04, May 11, and May 25

| No. | Treatment/Product Name          | Total number of adult alfalfa weevil/sq. ft./min |                         |                          |                          |
|-----|---------------------------------|--|-------------------------|--------------------------|--------------------------|
|     |                                 | May 01, 2007<br>(4 DAT)                          | May 04, 2007<br>(7 DAT) | May 11, 2007<br>(14 DAT) | May 25, 2007<br>(28 DAT) |
| 1   | Untreated                       | 23.25 ± 1.44 a                                   | 18.25 ± 1.49 a          | 18.25 ± 1.11 a           | 6.75 ± 0.75 a            |
| 2   | Baythroid XL @ 2.0 fl. oz./acre | 18.00 ± 0.58 b                                   | 13.75 ± 1.18 b          | 11.25 ± 1.65 bc          | 4.00 ± 0.00 bc           |
| 3   | Baythroid XL @ 2.8 fl. oz./acre | 13.75 ± 1.80 cd                                  | 8.25 ± 0.75 bc          | 8.75 ± 0.48 c            | 3.50 ± 0.65 c            |
| 4   | Lorsban 4E @ 1.0 pt./acre       | 11.00 ± 1.08 d                                   | 11.25 ± 1.11 bc         | 9.00 ± 0.91 c            | 4.00 ± 0.82 bc           |
| 5   | Warrior 1CS @ 2.56 fl. oz./acre | 13.75 ± 2.10 cd                                  | 12.50 ± 1.50 b          | 10.50 ± 2.66 bc          | 4.25 ± 0.63 bc           |
| 6   | Warrior 1CS @ 3.84 fl. oz./acre | 15.25 ± 0.48 bc                                  | 12.50 ± 0.65 b          | 7.50 ± 1.71 c            | 2.75 ± 0.63 c            |
| 7   | Mustang Max @ 4.0 fl. oz./acre  | 17.50 ± 1.32 bc                                  | 11.75 ± 0.85 b          | 14.75 ± 1.11 ab          | 6.00 ± 1.47 ab           |

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.

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