



**2006 Alfalfa Weevil Insecticide Efficacy Trial - Saline Co., KS.
Jeff Whitworth, Department of Entomology, Kansas State University
Evaluation date: April 18, April 21, April 28, and May 05**

Pest: Alfalfa Weevil, *Hypera postica*
Crop: Alfalfa, 13 treatments
Location: Saline Co., Kansas
Planting Date: N.A. 2nd year alfalfa field (ca 8-10" tall at application)
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 04/14/06
Phytotoxicity: none noted
Evaluation: 40 stems/plot (4 set of 10 stems) randomly selected, shaken into white 5 gal. bucket and counted on 04/13/06 (pretreatment); 04/18/06 (4 DAT); 04/21/06 (7 DAT)
10 stems/plot utilized for counts on 04/28/06 (14 DAT) and 05/05/06 (21 DAT).
28 DAT: No counts made as pupation had occurred
DAT: *Days after treatment*
Special notes: 90% pupation occurred within 3 weeks; Pre-treatment count on 04/13/06 was 49 weevil larvae/80 stems i.e. 0.6 weevil larvae/stem
Weather at time of treatment: ca. 72°F; wind-highly variable 9-16 mph (south)

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No.	Treatment/Product Name	Total number of larvae/40 stems		Total number of larvae/10 stems	
		April 18, 2006 (4 DAT)	April 21, 2006 (7 DAT)	April 28, 2006 (14 DAT)	May 05, 2006 (21 DAT)
1	Untreated	38.25 ± 2.66a	48.00 ± 2.27a	10.50 ± 1.32a	2.75 ± 0.48a
2	Warrior 1CS @ 2.56 fl. oz./acre	1.25 ± 0.63c	3.75 ± 1.18cd	0.00 ± 0.00c	0.50 ± 0.50b
3	Warrior 1CS @ 3.20 fl. oz./acre	0.75 ± 0.48c	5.25 ± 1.38cd	0.25 ± 0.25c	0.25 ± 0.25b
4	Warrior 1CS @ 3.84 fl. oz./acre	0.50 ± 0.29c	5.50 ± 2.33cd	0.25 ± 0.25c	0.50 ± 0.29b
5	Lorsban 4E @ 1.5 pt./acre	2.25 ± 1.31c	2.75 ± 0.25d	0.00 ± 0.00c	0.00 ± 0.00b
6	GF – 1846 @ 19.0 oz./acre	2.75 ± 0.95c	4.50 ± 1.55cd	0.75 ± 0.48c	0.00 ± 0.00b
7	GF – 1846 @ 29.0 oz./acre	2.75 ± 0.95c	7.50 ± 0.87c	1.00 ± 0.41c	0.25 ± 0.25b
8	Baythroid XL @ 2.0 fl. oz./acre	2.50 ± 0.50c	3.00 ± 1.08d	0.75 ± 0.25c	0.25 ± 0.25b
9	Baythroid XL @ 2.8 fl. oz./acre	2.50 ± 0.50c	4.50 ± 0.50cd	0.25 ± 0.25c	0.00 ± 0.00b
10	Baythroid XL @ 2.0 fl. oz./acre + Lorsban 480EC @ 8.0 fl. oz./acre	1.50 ± 0.29c	5.00 ± 1.22cd	1.00 ± 0.71c	0.50 ± 0.29b
11	Mustang Max @ 3.0 fl. oz./acre	2.75 ± 0.48c	4.00 ± 0.00cd	1.25 ± 0.63c	0.50 ± 0.50b
12	Mustang Max @ 4.0 fl. oz./acre	4.25 ± 0.48c	2.58 ± 1.29cd	1.25 ± 0.63c	0.25 ± 0.25b
13	Untreated	29.00 ± 4.18b	31.00 ± 2.52b	8.00 ± 0.71b	2.75 ± 0.63a

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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