



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

Pest: Pea Aphid, *Acyrtosiphon pisum*  
Crop: Alfalfa, 13 treatments  
Location: Saline Co., Kansas  
Planting Date: N.A. 2<sup>nd</sup> 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 and shaken into white 5 gal. bucket on 04/13/06 (pretreatment); 04/18/06 (4 DAT); 04/21/06 (7 DAT).  
10 stems/plot on 04/28/06 (14 DAT) and 05/05/06 (21 DAT).  
DAT: *Days after treatment*  
Weather at time of treatment: ca. 72°F; wind-highly variable 9-16 mph (south)  
Special notes: Aphid populations never reached treatment thresholds and started declining at 28 DAT.

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No.	Treatment/Product Name	Estimated number of pea aphid/40 stems		Estimated number of pea aphid/10 stems	
		April 18, 2006 (4 DAT)	April 21, 2006 (7 DAT)	April 28, 2006 (14 DAT)	May 05, 2006 (21 DAT)
1	Untreated	115.0 ± 9.8a	53.8 ± 17.7b	161.8 ± 7.4a	162.0 ± 5.1a
2	Warrior 1CS @ 2.56 fl. oz./acre	16.3 ± 3.4c	13.3 ± 1.1c	20.5 ± 1.3b	40.0 ± 5.5d
3	Warrior 1CS @ 3.20 fl. oz./acre	18.8 ± 3.5c	16.3 ± 1.4c	19.8 ± 3.8b	50.5 ± 2.8cd
4	Warrior 1CS @ 3.84 fl. oz./acre	16.5 ± 1.5c	14.8 ± 1.9c	22.5 ± 0.96b	45.5 ± 3.6cd
5	Lorsban 4E @ 1.5 pt./acre	11.0 ± 3.2c	13.8 ± 1.3c	21.8 ± 1.3b	57.3 ± 2.3c
6	GF – 1846 @ 19.0 oz./acre	13.5 ± 0.9c	12.5 ± 1.2c	23.0 ± 4.4b	48.0 ± 2.9cd
7	GF – 1846 @ 29.0 oz./acre	16.0 ± 1.4c	12.3 ± 2.3c	23.3 ± 6.3b	54.8 ± 3.0cd
8	Baythroid XL @ 2.0 fl. oz./acre	15.0 ± 1.9c	16.0 ± 3.2c	18.0 ± 2.1b	50.5 ± 6.1cd
9	Baythroid XL @ 2.8 fl. oz./acre	15.8 ± 2.5c	18.0 ± 2.7c	22.5 ± 1.0b	48.3 ± 4.6cd
10	Baythroid XL @ 2.0 fl. oz./acre + Lorsban 480EC @ 8.0 fl. oz./acre	16.3 ± 2.6c	16.5 ± 2.3c	21.5 ± 2.6b	58.3 ± 4.6c
11	Mustang Max @ 3.0 fl. oz./acre	11.8 ± 1.1c	11.3 ± 3.3c	18.0 ± 2.7b	43.5 ± 2.7cd
12	Mustang Max @ 4.0 fl. oz./acre	16.8 ± 0.85c	18.5 ± 2.5c	18.5 ± 1.0b	49.8 ± 9.4cd
13	Untreated	59.25 ± 17.1b	84.0 ± 12.5a	160.5 ± 9.7a	143.5 ± 10.1b

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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