



**2006 Potato Leafhopper Insecticide Efficacy Trial Republic Co., KS.
Robert J. (Jeff) Whitworth, Department of Entomology, Kansas State University
Evaluation date: July 10, July 13, July 20 and August 03**

Pest: Potato Leaf hopper, *Empoasca fabae*
Crop: Alfalfa, 13 treatments
Location: Republic Co., Kansas
Planting Date: N.A.
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 07/06/06. Leafhopper populations declined naturally after 07/20/06.
Phytotoxicity: none noted
Evaluation: Counted number of potato leafhopper/10 sweep/ plot on 07/10/06 (4 DAT), 07/13/06 (7 DAT), 07/20/06) 14DAT and 08/04/06 (28 DAT). DAT: *Days after treatment*
Special notes: Alfalfa height (8"). Pre-treatment counts on 07/06/06 was 6 potato leaf hopper/10 sweeps

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No.	Treatment	Total number potato leaf hopper/10 sweep			
		July 10, 2006 (4 DAT)	July 13, 2006 (7 DAT)	July 20, 2006 (14 DAT)	August 03, 2006 (28 DAT)
1	Baythroid XL @ 1.0 oz./acre	1.00 ± 0.41bc	0.75 ± 0.48b	0.00 ± 0.00b	0.00 ± 0.00b
2	Baythroid XL @ 2.0 oz./acre	1.50 ± 0.50b	0.25 ± 0.25b	0.25 ± 0.25b	0.00 ± 0.00b
3	Warrior 1CS @ 2.56 oz./acre	0.75 ± 0.25bc	1.00 ± 0.41b	0.25 ± 0.25b	0.25 ± 0.25b
4	Warrior 1CS @ 3.20 oz./acre	0.50 ± 0.50bc	0.00 ± 0.00b	0.00 ± 0.00b	0.25 ± 0.25b
5	Warrior 1CS @ 3.84 oz./acre	1.00 ± 0.41bc	0.00 ± 0.00b	0.00 ± 0.00b	0.00 ± 0.00b
6	Fanfare @ 3.9 oz./acre	0.25 ± 0.25bc	0.00 ± 0.00b	0.25 ± 0.25b	0.00 ± 0.00b
7	Fanfare @ 6.4 oz./acre	0.75 ± 0.25bc	0.00 ± 0.00b	0.00 ± 0.00b	0.00 ± 0.00b
8	Capture @ 3.9 oz./acre	0.50 ± 0.29bc	0.00 ± 0.00b	0.25 ± 0.25b	0.25 ± 0.25b
9	Capture @ 6.4 oz./acre	1.00 ± 0.71bc	0.25 ± 0.25b	1.00 ± 0.41b	0.00 ± 0.00b
10	Silencer @ 1.9 oz./acre	0.00 ± 0.00c	0.25 ± 0.25b	0.25 ± 0.25b	0.00 ± 0.00b
11	Silencer @ 3.2 oz./acre	0.25 ± 0.25bc	0.75 ± 0.48b	0.00 ± 0.00b	0.00 ± 0.00b
12	Lorsban 4E @ 1.5 pt./acre	0.25 ± 0.25bc	0.50 ± 0.50b	0.25 ± 0.25b	0.00 ± 0.00b
13	Untreated	9.50 ± 1.32a	9.25 ± 1.49a	7.00 ± 1.29a	2.75 ± 0.75a

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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