



Information for 2005 Soybean Seed Treatment Trial - Scandia, KS.

Robert J. (Jeff) Whitworth, Department of Entomology, Kansas State University

Pest: Bean Leaf Beetle and Thrips

Crop: Soybean, 10 treatments

Location: Scandia, Kansas

Planting Date: May 09, 2005

Plot Size: 4 rows x 40 ft.

Experimental Design: Randomized Complete Block; 4 Replications

Information: Sprayed with hand sprayer delivering 20 gal/acre at 30 psi only in treatment 7, 8, and 10 on 08/13/05

Phytotoxicity: none noted

Evaluation: Counted number of bean leaf beetle/ 10 sweep/ plot on 07/13/05, 07/27/05, 08/10/05 and 08/18/05. Counted number of Thrips/10 plants/plot on 06/15/05.

**2005 Thrips Insecticide Efficacy Trial (Soybean Seed Treatment)- Scandia, KS.
Robert J. (Jeff) Whitworth, Department of Entomology, Kansas State University**

Evaluation date: June 15, 2005

No.	Treatment	Thrips/10 plants
1	Untreated	10.00 ± 1.08bc
2	Apron Maxx FS @6.25 GA/100 kg seed	14.00 ± 1.08a
3	Apron Maxx FS @ 6.25 GA/100 kg seed + Cruiser 5 FS @ 50.0 GA/100 kg seed	4.75 ± 1.38de
4	Apron Maxx FS @ 6.25 GA/100 kg seed + Cruiser 5 FS @ 0.0757 MgA/seed	4.75 ± 1.60de
5	A14379 FS @ 56.25 GA/100 kg seed	13.25 ± 0.48ab
6	A14379 FS @ 56.25 GA/100 kg seed + Cruiser 5 FS @ 50.0 GA/100 kg seed	3.25 ± 1.49e
7	A14379 FS @ 56.25 GA/100 kg seed + Warrior w/Zeon @ 28 GA/ha*	10.00 ± 1.41bc
8	A14379 FS @ 56.25 GA/100 kg seed + Cruiser 5 FS @ 50.0 GA/100 kg seed + Warrior w/Zeon @ 28 GA/ha*	7.25 ± 1.17cd
9	Soygard 25WS @ 7.0 GA/100 kg seed + Gaucho 600 FS @ 65.00 GA/100 kg seed	9.50 ± 0.96bc
10	Warrior w/Zeon @ 28 GA/ha*	10.00 ± 0.71bc

*Warrior was yet to be applied.

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]).

**2005 Bean leaf beetle Insecticide Efficacy Trial (Soybean Seed Treatment) - Scandia, KS.
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Evaluation date: July 13, July 27, August 10 and August 18

No.	Treatment	Bean leaf beetles/10 sweeps			
		July 13, 2005	July 27, 2005	August 10, 2005	August 18, 2005
1	Untreated	4.50 ± 0.87a	6.00 ± 0.71a	2.50 ± 0.87b	7.25 ± 0.85a
2	Apron Maxx FS @6.25 GA/100 kg seed	1.00 ± 1.00cd	2.00 ± 0.71bc	5.75 ± 0.85ab	8.50 ± 1.26a
3	Apron Maxx FS @ 6.25 GA/100 kg seed + Cruiser 5 FS @ 50.0 GA/100 kg seed	1.00 ± 1.00cd	0.00 ± 0.00c	4.00 ± 0.41ab	8.50 ± 0.87a
4	Apron Maxx FS @ 6.25 GA/100 kg seed + Cruiser 5 FS @ 0.0757 MgA/seed	0.00 ± 0.00d	0.75 ± 0.75c	6.25 ± 0.31a	6.50 ± 1.04a
5	A14379 FS @ 56.25 GA/100 kg seed	0.00 ± 0.00d	1.50 ± 0.96c	6.00 ± 0.91a	7.50 ± 1.26a
6	A14379 FS @ 56.25 GA/100 kg seed + Cruiser 5 FS @ 50.0 GA/100 kg seed	1.50 ± 0.65bcd	0.00 ± 0.00c	5.50 ± 0.96ab	8.50 ± 0.29a
7	A14379 FS @ 56.25 GA/100 kg seed + Warrior w/Zeon @ 28 GA/ha	3.75 ± 1.49ab	0.00 ± 0.00c	4.75 ± 0.95ab	0.00 ± 0.00b
8	A14379 FS @ 56.25 GA/100 kg seed + Cruiser 5 FS @ 50.0 GA/100 kg seed + Warrior w/Zeon @ 28 GA/ha	0.75 ± 0.75cd	1.50 ± 0.87c	5.25 ± 1.11ab	0.00 ± 0.00b
9	Soygard 25WS @ 7.0 GA/100 kg seed + Gaucho 600 FS @ 65.00 GA/100 kg seed	0.00 ± 0.00d	0.00 ± 0.00c	3.25 ± 0.63ab	6.75 ± 0.63a
10	Warrior w/Zeon @ 28 GA/ha	3.25 ± 1.49abc	3.75 ± 1.44b	6.50 ± 2.40a	0.50 ± 0.29b

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]).

Treated plots 7, 8 and 10 on August 10, 2005

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No.	Treatment	Plant population/acre	Yield (bu/acre)
1	Untreated	110352.00 ± 0.00d	48.30 ± 0.41d
2	Apron Maxx FS @6.25 GA/100 kg seed	151008.00 ± 4742.21bc	56.68 ± 1.18c
3	Apron Maxx FS @ 6.25 GA/100 kg seed + Cruiser 5 FS @ 50.0 GA/100 kg seed	166980.00 ± 1452.00a	62.88 ± 1.41ab
4	Apron Maxx FS @ 6.25 GA/100 kg seed + Cruiser 5 FS @ 0.0757 MgA/seed	164076.00 ± 4356.00ab	62.75 ± 0.54ab
5	A14379 FS @ 56.25 GA/100 kg seed	146651.00 ± 7997.07c	57.73 ± 0.94c
6	A14379 FS @ 56.25 GA/100 kg seed + Cruiser 5 FS @ 50.0 GA/100 kg seed	13940.00 ± 9297.34c	55.78 ± 0.35c
7	A14379 FS @ 56.25 GA/100 kg seed + Warrior w/Zeon @ 28 GA/ha	168432 ± 0.00a	64.25 ± 1.10a
8	A14379 FS @ 56.25 GA/100 kg seed + Cruiser 5 FS @ 50.0 GA/100 kg seed + Warrior w/Zeon @ 28 GA/ha	143748.00 ± 1452.00c	58.10 ± 1.35c
9	Soygard 25WS @ 7.0 GA/100 kg seed + Gaucho 600 FS @ 65.00 GA/100 kg seed	143748.00 ± 7637.39c	59.00 ± 1.74bc
10	Warrior w/Zeon @ 28 GA/ha	149556.00 ± 3654.12bc	56.83 ± 2.88c

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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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