2013 Soybean Foliar Treatment Efficacy Trial – Dickinson Co., KS

Jeff Whitworth, Holly Davis, Department of Entomology,
Kansas State University

Pests: Bean leaf beetle (BLB), Corn earworm (CEW), Green cloverworm (GCW), Yellow striped armyworm (YSA), Webworms

Crop: Soybeans; 20 treatments

Location: Dickinson Co., KS

Plot Size: 10ft. x 20ft.

Experimental Design: Randomized Complete Block; 4 Replications

Information: Sprayed by hand sprayer with ca. 20 gal. H_20/a. at 30 psi. on 18 August, 2013 – 82 °F with <10 mph winds.

Phytotoxicity: None noted.

Evaluation: Pretreatment counts –17 August, 2013. Averaged 5 GCW, 3 Webworms, and 0.3 YSA per 3 row ft.

Samples taken by counting all insects in 3 row foot on 25 August (7 DAT), 31 August (13 DAT), and 7 September (20 DAT) 2013

2013 Soybean Foliar Treatment Efficacy Trial – Dickinson Co., KS

Jeff Whitworth, Holly Davis, Department of Entomology, Kansas State University

		25 Aug. (7 DAT)		31 Aug. (13 DAT)			7 Sept. (20 DAT)		
No	**Treatment**	GCW/3 ft. row	Webworms/3 ft. row	GCW/3 ft. row	BLB/3 ft. row	CEW/ 3 ft. row	GCW/3 ft. row	BLB/3 ft. row	YSA/ 3 ft. row
1	Belt SC @ 2.0 oz/a + NIH @ 25%	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	2.0 ± 0.6b	0.0 ± 0.0b	0.0 ± 0.0b	1.3 ± 0.5abcd	0.0 ± 0.0a
2	Belt SC @ 3.0 oz/a + NIH @ 25%	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	1.8 ± 0.3bc	0.0 ± 0.0b	0.0 ± 0.0b	1.8 ± 0.5abcd	0.0 ± 0.0a
3	Prevathon @ 14 oz/a	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	1.3 ± 0.3bc	0.0 ± 0.0b	0.0 ± 0.0b	1.5 ± 0.3abcd	0.0 ± 0.0a
4	Stallion @ 8 oz/a	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	1.5 ± 0.9bc	0.3 ± 0.3b	0.0 ± 0.0b	0.5 ± 0.5d	0.0 ± 0.0a
5	Hero @ 5 oz/a	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	0.5 ± 0.3bc	0.0 ± 0.0b	0.0 ± 0.0b	0.8 ± 0.5cd	0.0 ± 0.0a
6	Triple Crown @ 4.8 oz/a	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	0.5 ± 0.5bc	0.0 ± 0.0b	0.0 ± 0.0b	2.3 ± 0.9abc	0.0 ± 0.0a
7	Warrior II @ 1.92 oz/a	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	1.0 ± 0.7bc	0.0 ± 0.0b	0.0 ± 0.0b	2.5 ± 0.6ab	0.0 ± 0.0a
8	Leverage @ 2.8 oz/a	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	0.8 ± 0.5bc	0.0 ± 0.0b	0.0 ± 0.0b	0.3 ± 0.3d	0.0 ± 0.0a
9	Declare @ 1.02 oz/a	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	1.3 ± 0.8bc	0.0 ± 0.0b	0.0 ± 0.0b	1.5 ± 0.3abcd	0.0 ± 0.0a
10	Declare @ 1.28 oz/a	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	0.8 ± 0.3bc	0.0 ± 0.0b	0.0 ± 0.0b	1.3 ± 0.5abcd	0.3 ± 0.3a
11	Declare @ 1.02 oz/a + Dimethoate @ 4 oz/a	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	0.8 ± 0.5bc	0.0 ± 0.0b	0.0 ± 0.0b	1.5 ± 1.0abcd	0.3 ± 0.3a
12	Warrior II @ 1.54 oz/a	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	1.0 ± 0.7bc	0.0 ± 0.0b	0.0 ± 0.0b	2.5 ± 1.0ab	0.0 ± 0.0a
13	Prevathon @ 10 oz/a	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	0.8 ± 0.3bc	0.3 ± 0.3b	0.0 ± 0.0b	1.0 ± 0.4bcd	0.0 ± 0.0a
14	Prevathon @ 10 oz/a + Asana @ 7 fl Oz/a	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	1.3 ± 0.3bc	0.0 ± 0.0b	0.0 ± 0.0b	1.3 ± 0.6abcd	0.0 ± 0.0a
15	Besiege @ 5 fl oz/a	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	0.8 ± 0.5bc	0.0 ± 0.0b	0.0 ± 0.0b	1.3 ± 0.3abcd	0.0 ± 0.0a
16	Besiege @ 7 fl oz/a	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	0.3 ± 0.3c	0.3 ± 0.3b	0.0 ± 0.0b	1.3 ± 0.3abcd	0.0 ± 0.0a
17	Steward @6.7 fl oz/a	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	0.5 ± 0.5bc	0.0 ± 0.0b	0.3 ± 0.3b	1.0 ± 0.4bcd	0.3 ± 0.3a
18	Fastac @ 3.8 oz/a + surfactant @ 25%	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	0.8 ± 0.5bc	0.0 ± 0.0b	0.0 ± 0.0b	2.3 ± 1.0abc	0.0 ± 0.0a
19	Fastac @ 2.8 oz/a + surfactant @ 25%	0.0 ± 0.0b	0.0 ± 0.0b	0.0 ± 0.0b	1.0 ± 0.6bc	0.0 ± 0.0b	0.0 ± 0.0b	0.8 ± 0.5cd	0.3 ± 0.3a
20	Untreated	4.5 ± 0.7a	1.5 ± 0.9a	17.0 ± 5.0a	5.5 ± 1.0a	1.8 ± 0.5a	5.5 ± 1.1a	2.8 ± 0.8a	0.0 ± 0.0a

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.

Kansas State University Agricultural Experiment Station and Cooperative Extension Service

K-State Research and Extension is an equal opportunity provider and employer. Issued in furtherance of Cooperative Extension Work, Acts of May 8 and June 30, 1914, as amended. Kansas Staten University, County Extension Councils, Extension Districts, and United States Department of Agriculture Cooperating, John Floros, Director.