

Management of Snap Bean Insects with Soil Applied and Foliar Insecticides, 2011- ‘Slenderette’ snap beans were planted on July 13 at the University of Delaware's Research and Education Center located near Georgetown, DE. Plots consisted of four 25 ft long plots planted on 30-inch centers replicated four times in a RCB design. Soil treatments were applied in furrow at planting using a CO² pressurized backpack sprayer with a two-nozzle boom delivering 20 gpa at 40 psi. Foliar treatments were applied on August 19 (bud stage), August 25 (pin stage) and Sept 1 (6 days from harvest) with a CO² pressurized backpack boom sprayer delivering 18 gpa @ 30 psi. Snap beans were harvested on Sept 7 from a 6 ft row section and all the beans were evaluated for corn borer and corn earworm injury. Data were analyzed using Proc GLM and means were separated by Tukey's means separation test (P=0.05).

No corn borer damage was detected in the plots and corn earworm pressure was light. No phytotoxicity was observed.

Table 1. Damaged Beans

Trt #	Treatment	Rate/Acre	Treatment Placement	Percent CEW Damaged Beans Sept 7
1	Coragen 1.67 SC	3.5 oz	at planting	0.69a
2	Coragen 1.67 SC	5.0 oz	at planting	0.36a
3	Coragen 1.67 SC	7.0 oz	at planting	0.00a
4	HGW86 20SC	10.2 oz	at planting	2.41a
5	Coragen 1.67 SC	5.0 oz	foliar	0.00a
6	Radiant 1 SC	6.0 oz	foliar	0.00a
7	Belt	3.0 oz	foliar	0.17a
8	Blackhawk	3.3 oz	foliar	0.25a
9	Orthene (2ppl) Warrior II (1 appl)	1 lb switch to 1.92 oz	foliar	0.00a
10	Untreated	-----	-----	1.07a

1 Means within a column followed by the same letter are not significantly different (Tukey's; P=0.05).

Table 2. Thrips and Leafhopper Infestations

Treatment	Rate/A	Placement	Thrips per 10 leaflets	Thrips per 20 leaflets		Potato Leafhopper per 10 leaflets	Potato Leafhopper per 10 leaflets	
			Aug 3 ¹	Aug 11 ¹	Aug 22 ¹	Aug 3 ¹	Aug 11 ¹	Aug 22 ¹
Coragen 1.67 SC	3.5 oz	at planting	12.25a	7.00a	0.25a	0.25a	0.00a	0.50a
Coragen 1.67 SC	5.0 oz	at planting	11.00a	5.50a	0.75a	0.25a	0.00a	0.50a
Coragen 1.67 SC	7.0 oz	at planting	5.50a	6.50a	0.25a	0.25a	0.75a	0.50a
HGW86 20SC	10.2 oz	at planting	20.75a	4.25a	0.50a	0.00a	0.25a	0.50a
Coragen 1.67 SC	5.0 oz	foliar	20.50a	7.25a	0.25a	1.25a	1.50a	0.00a
Radiant 1 SC	6 oz	foliar	17.50a	2.75a	0.50a	1.50a	1.50a	0.50a
Belt	3 oz/A	foliar	18.25a	5.25a	0.25a	1.75a	0.00a	0.00a
Blackhawk	3.3 oz	foliar	19.00a	4.50a	0.50a	1.25a	0.50a	0.00a
Orthene switch to Warrior II	1 lb switch to 1.92 oz	foliar	14.75a	7.50a	0.50a	0.25a	2.00a	0.00a
Untreated	-----	-----	18.75a	6.50a	0.00a	0.00a	0.00a	0.25a

¹ At Planting treatments on July 13; Foliar Treatments – Aug 19, 25 and Sept 1; Means within a column followed by the same letter are not significantly different (Tukey's; P=0.05).