

**Late Season Evaluation of Foliar Insecticides for Control of Lepidopterans on Sweet Corn, 2009:** ‘ Seneca Horizon’ sweet corn was planted on July 6 at the University of Delaware Research and Education Center located near Georgetown, Delaware. Plots were 25 ft long and one row wide, planted on 30 inch centers. Each treatment was replicated 4 times and arranged in a RCB design. Application of all treatments listed in the table began at ear shank emergence and were applied on a 3-4 day schedule (Aug 10, 13, 17, 20, and 24). All applications were made using a CO<sub>2</sub> pressurized back pack sprayer and a two nozzle boom equipped with D2 hollow cone nozzles delivering 41 gpa at 37 psi. At harvest (Aug 27 ), all the ears from each plot were husked and evaluated for damage as percent clean ears ( fresh market) and percent clean plus tip damaged ears (damage less than 1.0 inches from the tip- processing ears). The total number of live larvae of each species were identified and counted. Data were analyzed using Proc GLM and means were separated by Tukey’s mean separation test (P=0.05).

Corn earworm pressure was high. Fall armyworm pressure was low. All treatments provided a significantly higher percentage of clean and processing ears compared to the untreated check. All treatments provided a significantly lower percentage of CEW damaged ears compared to the untreated check. All treatments provided a significantly lower percentage of FAW damaged ears compared to the untreated check except the stand alone Warrior II application. Overall, the Belt 480SC switch to Baythroid XL treatments provided the lowest level of corn earworm control. No phytotoxicity was observed.

Treatment	Rate/A	Application Date	% Clean Ears (Fresh Market) <sup>1</sup>	% Clean + Tip Damaged Ears (Processing)	Percent Damaged Ears <sup>1</sup>	
					CEW	FAW
Belt 480 SC + LI-700	3 oz + 0,25% v/v	8/10,13,17,20	66.45d	69.17d	29.98b	0.89b
Baythroid XL	2.8 oz	8/24				
Belt 480 SC	3 oz	8/10,13,17,20	78.58c	81.36c	20.49bc	0.93b
Baythroid XL	2.8 oz	8/24				
Coragen 1.67 SC + MSO	3.5 oz + 0.5% v/v	8/10,13,17	91.93ab	94.58ab	8.07cd	0.00b
Lannate LV + Asana XL	24 oz + 9.6 oz	8/20, 24				
Coragen 1.67 SC + MSO	5 oz + 0.5% v/v	8/10,13,17	93.73ab	98.28ab	6.28d	0.00b
Lannate LV + Asana XL	24 oz + 9.6 oz	8/20, 24				
Coragen 1.67 SC + LI-700	3.5 oz + 0.5% v/v	8/10,13,17	90.10ab	93.77ab	10.86cd	0.00b
Lannate LV + Asana XL	24 oz + 9.6 oz	8/20, 24				
Lannate LV + Asana XL	24 oz + 9.6 oz	8/10, 13, 17, 20, 24	96.25ab	97.22ab	3.75d	0.00b
Warrior II	1.92 oz	8/10, 13, 17, 20, 24	87.03bc	87.96bc	7.20d	5.78ab
Voliam xpress	9 oz	8/10,13,17	99,11a	99.11a	0.89d	0.00b
Lannate LV + Warrior II	24 oz + 1.92 oz	8/20, 24				
Voliam xpress	7 oz	8/10,13,17,20	98.11ab	98.11ab	1.89d	0.00b
Warrior II	1.92 oz	8/24				
Voliam xpress	9 oz	8/10, 13, 17	98.28ab	100.00a	1.73d	0.00b
Warrior II	1.92 oz	8/20, 24				
Voliam xpress Alternate with Warrior II	7 oz	8/10, 17, 24	94.99ab	96.61ab	5.00d	0.00b
	1.92 oz	8/13, 20				
Untreated	---	----	7.35e	11.55e	89.08a	11.11a

<sup>1</sup> Means in the same columns followed by the same letter are not significantly different ( Tukey's; P=0.05).