

## **Insect Management in Late Planted Sweet Corn – 2007**

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'Silver King ' sweet corn was planted on July 6 at the University of Delaware Research and Education Center located near Georgetown, DE. Plots consisted of two rows, 25 ft-long plots planted on 30-inch centers. Each treatment was replicated 4 times and arranged in a RCB design. All treatments listed in the table were applied on a 3-4 day schedule (Aug 20, 23, 27, 30; Sep 4, 7). Applications of foliar insecticides were applied with a CO<sub>2</sub> pressurized back sprayer using 4 nozzles per row delivering 63 gpa at 37 psi. At harvest (Sep 10 ), forty ears from each plot were husked and evaluated for damage as percent clean ears ( fresh market) and percent clean plus tip damaged ears (only within 1.0 inches from the tip- processing ears). The total number of larvae of each species was also 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. Corn borer pressure and fall armyworm pressure was low. All treatments provided significantly better corn borer control compared to the untreated check. All treatments provided a significantly higher percentage of clean ears compared to the untreated check except the Belt and Alverde alone. All treatments provided a significantly higher percentage of processing ears compared to the untreated check except the Alverde alone. No phytotoxicity was observed.

**Table 1, Sweet Corn Ear Damage Evaluation Results**

Treatment	Rate/A	% Clean Ears (Fresh Market)	% Clean + Tip Damaged Ears (Processing Ears)	% Damaged Ears	
				CEW	ECB
Belt 4SC	3 oz	23.13de	32.50d	75.63ab	0.00b
Volium Xpress 1.27 ZC	8.2 oz	83.13a	90.00a	17.50d	0.00b
Coragen 1.69 SC	6.7 oz	55.63bc	67.50bc	43.75cd	0.00b
Alverde 1.69 EC plus LI- 700	16 oz plus 0.5% V/V	2.50e	11.25e	96.88a	0.00b
Alverde 1.69 EC plus Mustang MAX 0.8EC plus LI-700	13.7 oz + 4 oz + 0.5% V/V	47.50bcd	64.38bc	52.50bc	0.00b
Mustang MAX 0.8EC	4 oz	34.38cd	54.38c	59.38bc	1.25b
Capture 2EC	4 oz	51.88bc	69.38abc	46.88c	1.25b
Baythroid 2EC	2.8 oz	58.75abc	79.38ab	39.38cd	1.25b
Proaxis 0.5EC	3.84 oz	36.25cd	61.88bc	61.88bc	0.00b
Warrior 1CS	3.84 oz	61.25ab	80.00ab	37.50cd	0.00b
Untreated	----	0.00e	0.00e	100.00a	10.00a

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