

Brown Marmorated Stink Bug Management in Sweet Corn, 2011: ‘WSS 0987’ Bt sweet corn was planted on May 27 at the University of Delaware’s Research farm located in Newark, DE. Two row plots 25 foot long planted on 5 foot centers were replicated 4 times in a RCB design. All applications were applied with a CO2 pressurized back pack sprayer using a two nozzle boom equipped with D2 hollow cone nozzles delivering 66 gpa at 40 psi. The number of BMSB adults and nymphs per 10 plants was recorded pre-treatment on July 11. The number of BMSB adults and nymphs per plant was also recorded on 3 post treatment dates (July 12 – tassel emergence, July 19 – green silk, and July 27 – brown silk). At harvest (Aug 1), all the ears from each plot were husked and evaluated for damage from BMSB (blemished kernels). Data were analyzed using Proc GLM and means were separated by Tukey’s mean separation test (P=0.05).

Although BMSB could be readily found on tassels and plants, damage was low and no significant different was observed between the treatments and the untreated control.

Trt #	Treatment	Rate/Acre	No. BMSB Adults & Nymphs per 10 plants ¹	No. BMSB Adults & Nymphs per plant ¹			Mean % Clean Ears Aug 1 ¹	Mean % Damaged Ears Aug 1 ¹
			July 11 Pre-trt	July 15 3 DAT #1	July 18 6DAT #1	July 25 6DAT #2		
1	Baythroid XL	2.8 oz	0.00a	0.21a	0.13a	0.01a	97.46a	1.07a
2	Leverage 360	2.8 oz	0.50a	0.20a	0.11a	0.01a	99.04a	1.39a
3	Venom 70 SG	116 grams	0.75a	0.06a	0.08a	0.03a	96.75a	2.86a
4	Lannate LV	1.5 pt	0.50a	0.11a	0.16a	0.02a	83.73a	15.91a
5	Venom 70 SG + Exponent Insecticide Synergist	116 grams + 5 oz	1.50a	0.13a	0.14a	0.02a	96.86a	1.99a
6	Trebon 30 EC	236.6 ml	1.00a	0.13a	0.23a	0.01a	98.33a	0.57a
7	Trebon + Exponent Insecticide Synergist	236.6 ml + 8 oz	0.25a	0.17a	0.10a	0.003a	95.87a	3.66a
8	Untreated	----	0.25	0.12a	0.10a	0.09a	88.64a	9.81a

¹ Means in the same columns followed by the same letter are not significantly different (Tukey’s; P=0.05).