

Brown Marmorated Stink Bug Management in Sweet Corn, 2012: ‘WSS 0987’ Bt sweet corn was planted on May 21 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 materials were applied with a CO² pressurized back pack sprayer using a two nozzle boom equipped with D2 hollow cone nozzles delivering 33 gpa at 40 psi on Aug 2. BMSB populations were extremely low until late July when the first adults and nymphs were observed in the plots; therefore only one application was made at brown silk (Aug 2). The number of adults and nymphs were counted the day before treatment during a two minute search on brown silk stage corn (Aug 1). At harvest (Aug 6), 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 not be found earlier in the field, damage at this late stage occurred quickly. Treatments applied on a schedule basis will be needed in the future to evaluate the effectiveness of materials on BMSB in sweet corn. Data from research trials in 2012 aimed at identifying when BMSB damages sweet corn indicated that damage can occur from silking through harvest maturity. A timing study will be needed in 2013 to better evaluate the effectiveness of labeled and non-labeled insecticides.

Treatment	Rate/Acre	No. BMSB Adults & Nymphs per 2 minute count Aug 1 ¹	Mean % Clean Ears Aug 6 ¹	Mean % Damaged Ears Aug 6 ¹
Baythroid XL	2.8 oz	6.75a	36.67a	63.33a
Leverage 360	2.8 oz	5.50a	42.01a	57.99a
Lannate LV	1 pt	11.00a	19.08a	80.92a
Lannate LV	1.5 pt	8.50a	33.44a	66.56a
Sniper 2EC	4 oz	11.25a	35.10a	64.90a
Warrior II	1.92 oz	17.00a	58.97a	41.03a
Besiege	9 oz	3.00a	48.47a	51.53a
Endigo ZC	4.5 oz	6.75a	44.67a	55.33a
Untreated	--	11.00a	36.41a	63.59a

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