

Brown Marmorated Stink Bug Management in Bell Peppers, 2011 : ‘ Paladin ’ bell peppers were transplanted on June 2 at the University of Delaware’s Research farm located in Newark, DE. One row plots 20 ft long on 6 foot center were replicated 4 times in a RCB design. All foliar materials were applied with a CO₂ backpack sprayer with a one-row boom, having 3 hollow cone nozzles per row (one over the top and one drop nozzle on each side) delivering 55 gpa at 35psi on July 8, 15, 27; Aug 4 and 17. Plots were sampled on a weekly basis from June 5 through Sept 14 by counting the number of adults and nymphs on 5 plants per plot using direct visual and beat counts. All commercial size peppers were harvested on July 18; and Aug 1, 8, 15 and 22 and evaluated for the percent BMSB damaged fruit. Data were analyzed using Proc GLM and means were separated by Tukey’s mean separation test (P=0.05).

Table 1. Adult BMSB Counts

Treatment	Rate/Acre	Number BMSB Adults /5 plants (direct counts)				
		July 18	July 25	August 1	August 8	August 15
Baythroid XL	2.8 oz	0.25a	0.00a	0.75a	0.00a	0.00a
Leverage 360	4.1 oz	1.25a	0.00a	0.25a	0.25a	1.25a
Lannate LV	1.0pt	0.25a	0.00a	0.00a	0.50a	0.50a
Lannate LV	1.5 pt	0.50a	0.00a	0.25a	0.50a	0.25a
Belay 2.13SC	4 oz	0.50a	0.00a	1.00a	0.50a	0.50a
Endigo ZC	4.5 oz	0.50a	0.00a	0.00a	0.00a	1.00a
Sniper 2EC	4 oz	0.00a	0.00a	0.00a	0.25a	0.25a
Venom 70 SG	2 oz	0.25a	0.00a	1.00a	0.50a	0.75a
Warrior II	1.92 oz	0.00a	0.25a	1.00a	0.25a	0.75a
Untreated	---	0.00a	0.00a	1.25a	0.75a	0.50a

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

Table 2. Nymphal BMSB Counts

Treatment	Rate/Acre	Number BMSB Nymphs /5 plants (direct count)				
		Aug 8	Aug 15	Sept 1	Sept 8	Sept 14
Baythroid XL	2.8 oz	0.00a	0.00a	0.25a	0.00a	0.50a
Leverage 360	4.1 oz	0.00a	0.00a	5.00a	2.00a	0.50a
Lannate LV	1.0pt	0.00a	0.00a	1.00a	0.00a	0.00a
Lannate LV	1.5 pt	0.00a	0.00a	0.00a	0.50a	0.00a
Belay 2.13SC	4 oz	0.00a	0.00a	0.25a	0.75a	1.00a
Endigo ZC	4.5 oz	0.00a	0.00a	0.00a	0.00a	0.50a
Sniper 2EC	4 oz	0.25a	0.50a	0.75a	0.50a	1.00a
Venom 70 SG	2 oz	0.00a	0.00a	1.25a	0.25a	0.25a
Warrior II	1.92 oz	0.00a	0.00a	5.75a	0.75a	0.50a
Untreated	---	0.00a	0.00a	1.00a	0.25a	0.25a

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

Table 3. Harvest Data

Treatment	Rate/Acre	Percent BMSB Damaged Fruit				
		July 18	August 1	August 8	August 15	August 22
Baythroid XL	2.8 oz	2.27a	0.62b	2.39a	0.48a	3.67b
Leverage 360	4.1 oz	3.75a	0.68ab	1.49a	4.17a	3.35b
Lannate LV	1.0pt	0.00a	1.42ab	0.73a	4.56a	1.64b
Lannate LV	1.5 pt	1.39a	1.22ab	0.45a	4.03a	2.09b
Belay 2.13SC	4 oz	2.75a	1.58ab	0.83a	0.78a	0.51b
Endigo ZC	4.5 oz	2.14a	1.99ab	3.06a	0.74a	0.43b
Sniper 2EC	4 oz	0.00a	1.90ab	2.48a	2.25a	5.42ab
Venom 70 SG	2 oz	0.00a	1.13ab	1.79a	1.39a	1.29b
Warrior II	1.92 oz	2.52a	2.02ab	1.86a	2.62a	1.36b
Untreated	---	0.00a	5.17a	4.37a	7.16a	9.98a

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