

Management of Brown Marmorated Stink Bugs in Lima Bean, 2011 – ‘C-Elite’ lima beans were planted on June 24th at the University of Delaware’s Research farm located in Newark, DE. Plots consisted of four 25 ft long plots planted on 30-inch centers replicated four times in a RCB design. Foliar applications were applied on September 2 with a CO₂ pressurized backpack boom sprayer delivering 18 gpa @ 40 psi. Brown marmorated stink bug (BMSB) populations densities were evaluated on a weekly basis from Aug 4 to September 9 by taking 5 sweeps with a 15-icn diameter sweep net per plot and counting all stages of BMSB. Population densities were also evaluated on a weekly basis from Aug 19 to September 9 using a 6 ft of row beat sample. All the beans from 6 ft of row were harvested on Sept 15 and Oct 5 and pods and seeds were evaluated for stink bug damage. Data were analyzed using Proc GLM and means were separated by Tukey’s mean separation test (P=0.05).

Treatment	Rate/Acre	Mean Number BMSB Adults and Nymphs per 5 sweeps ¹			Mean Number BMSB Adults and Nymphs per 6 ft of row beat count ¹		
		Aug 23	Aug 31	Sept 9	Aug 23	Aug 31	Sept 9
Baythroid XL	2.8 oz	0.25a	0.25a	0.00a	0.50a	0.25a	0.00a
Leverage 360	2.8 oz	1.25a	0.75a	0.25a	0.25a	1.00a	0.25a
Lannate LV	1.0 pt	0.75a	0.00a	0.00a	0.50a	0.00a	0.00a
Lannate LV	1.5 pt	0.00a	0.50a	0.00a	0.00a	0.00a	0.00a
Endigo ZC	4.5 oz	0.00a	0.00a	0.25a	0.25a	0.00a	0.25a
Hero EC	6 oz	0.25a	0.50a	0.00a	0.50a	0.75a	0.00a
Untreated	----	0.00a	0.50a	0.50a	0.25a	0.25a	0.50a

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

Treatment	Rate/Acre	Percent Damaged Pods ¹		Number Damaged Seed Sept 15 ¹	Percent Damaged Seeds Oct 5 ¹
		Sept 15	Oct 5		
Baythroid XL	2.8 oz	0.10a	0.83a	1.00a	0.65a
Leverage 360	2.8 oz	0.09a	0.76a	0.25a	1.14a
Lannate LV	1.0 pt	0.53a	0.49a	0.25a	0.95a
Lannate LV	1.5 pt	0.10a	0.23a	0.75a	1.39a
Endigo ZC	4.5 oz	0.51a	0.86a	0.00a	0.75a
Hero EC	6 oz	0.00a	0.34a	0.00a	0.71a
Untreated	----	0.39a	0.48a	2.25a	0.67a

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