

CONTROL OF EUROPEAN CORN BORER (ECB) IN BELL PEPPERS, 2007

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'Paladin' cv. peppers were transplanted into a Sassafras sandy loam field on 25 May. Plots consisted of a single row, 25-ft long and 5 ft wide, replicated 4 times in a randomized complete block design; a guard row buffered each treated row. Foliar treatments were applied with a self-propelled, tractor-mounted boom sprayer with a drop nozzle on either side of the row and one over the center of the row calibrated to deliver 70 gal/acre at 40 psi operated at 2 mph. All plots except the check plots were treated with Orthene 97 (1.0 lb AI/a) on 19 and 27 Jul. All plots were treated with either Avaunt 30WDG or Coragen 200SC on 3, 10 and 17 Aug. Lastly, all plots except the check plots were treated with Avaunt 30WDG on 24 and 31 August. Fruit were harvested on 24 Jul, 3 and 22 Aug, and 7 Sep, all fruit were counted and dissected, and the number fruit damaged by, European corn borer, beet armyworm and corn earworm was recorded.

Two applications of Orthene 97 or three applications of Coragen 200SC, followed by weekly applications of Avaunt 30WDG (3.5 oz/a) resulted in significantly fewer percentage ECB-infested fruit at harvest on 3 and 22 Aug, as compared with the untreated. No significant differences among treatments for percentage fruit damaged by European corn borer was recorded on 24Jul or 7 Sep. No significant differences among treatments for percentage fruit damaged by stink bug was recorded on 3 or 23 Aug. No phytotoxicity was observed.

| Treatment & rate lb AI/a ² | % ECB - infested fruit ¹ | | | | %Stink bug damage | |
|--|-------------------------------------|-------|--------|--------|-------------------|--------|
| | 24 Jul | 3 Aug | 22 Aug | 7 Sep | 3 Aug | 23 Aug |
| Coragen 1.67 SC 0.044 | 0.0 ns | 0.7 a | 1.3 a | 0.0 ns | 2.3 ns | 2.3 ns |
| Coragen 1.67 SC 0.066 | 0.7 | 0.0 a | 0.0 a | 0.0 | 5.2 | 2.5 |
| Coragen 1.67 SC 0.066 + MSO 0.5% v:v | 0.0 | 0.0 a | 0.0 a | 0.0 | 0.0 | 2.9 |
| Orthene 97 0.97 (2X), then Avaunt 30 WDG 0065 | 0.0 | 0.0 a | 0.0 a | 0.0 | 0.9 | 0.7 |
| Untreated ----- | 1.0 | 7.6 b | 6.0 b | 0.9 | 0.8 | 3.6 |

Orthene plots treated with Avaunt on 3, 10, 17 August. All plots treated with Avaunt on 24 and 31 August.