

## Evaluation of Selected Insecticides for Sweet Potato Insect Control

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2005

**Methods:** Plots were planted to the sweet potato variety Georgia Jet, on a Commerce silt loam soil on 16 Jun. Plot size was four rows (40 inch centers) by 20 feet. Treatments were replicated four times in a randomized complete block design. Treatments were applied on 1, 10, 17 Aug and 7 Sep with a tractor mounted boom and CO<sub>2</sub> charged spray system calibrated to deliver 10 gpa through Teejet 80015 flat fan nozzles (2/row). Treatment efficacy was determined by sampling a center row of each plots with a 15 in sweep net (10 sweeps) on 3, 10 12, 15, 19, and 22 Aug. One center row of each plot was harvested on 14 Oct. Yields were converted to bu/acre.

**Comments:** There were no significant differences among treatments for numbers of loopers, armyworms, or spotted cucumber beetles or yield. All of the insecticide treatments significantly reduced numbers of banded cucumber beetle compared to the non-treated control.

Table 1. Efficacy against loopers, armyworms, spotted cucumber beetle, and banded cucumber beetle and impact on yield.

Treatment/form.	Rate/acre	Means Across Sample Dates, No./10 Sweeps				Yield
	lb/AI	Loopers	Armyworms	Spotted Cucumber Beetle	Banded Cucumber Beetle	bu/acre
Pencap M 2FM	0.5	0.7	8.3	0.0	0.3b	460
Imidan 2.5EC	1.0	0.8	10.3	0.0	0.5b	514
Capture 2EC	0.05	0.2	7.7	0.0	0.2b	457
Assail 30SG	0.26	1.0	8.5	0.1	0.3b	447
Non-Treated	-	1.1	8.3	0.1	1.2a	488
<i>P&gt;F</i>		0.11	0.77	0.65	0.02	0.94

Means within columns followed by a common letter are not significantly different (FPLSD, P=0.05).