

## Evaluation of Selected Insecticides Against Cabbage / Soybean Looper on Sweet Potato

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**Methods:** Selected insecticides were evaluated for control of cabbage / soybean looper at the LSU AgCenter Northeast Research Station (Tensas Parish). Cuttings of sweet potato vines were transplanted into a Commerce silt loam soil on 12 Jul. Plot size was four rows (centered on 40 inches) by 20 feet. Treatments were replicated four times in a RCB. Treatments were applied on 11 Sep with a tractor mounted sprayer 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 plot with a 15 in sweep net (10 sweeps) at 2 and 8 DAT. Data were subjected to ANOVA and means separated according to Fisher's Protected Least Significant Difference. Between the initial application and the end of sampling, rainfall of 1.01 inches occurred.

**Comments:** At 2 DAT, plots treated with Baythroid XL (0.017 lb AI/A), Baythroid XL (0.022 lb AI/A), Avaunt (0.065 lb AI/A), Avaunt (0.11 lb AI/A), or Capture had significantly fewer cabbage / soybean looper larvae compared to the non-treated plots. Plots treated with Avaunt (0.065 lb AI/A), Avaunt (0.11 lb AI/A), or Rimon (0.078 lb AI/A) had significantly fewer cabbage / soybean looper larvae compared to the non-treated plots at 8 DAT. Across sample dates, all of the insecticide treatments, except Rimon (0.079 lb AI/A) and Imidan, significantly reduced numbers of cabbage / soybean looper larvae compared to the non-treated control. No phytotoxicity was observed with any of the insecticide treatments in this test.

Table 1. Efficacy of selected insecticide treatments against cabbage / soybean loopers at 2 and 8 DAT and across sample dates.

Treatment/Form.	Rate/acre lb/AI	Larvae / 10 sweeps		
		2 DAT	8 DAT	Mean <sup>1</sup>
Baythroid XL 1EC	0.013	11.00bcd	6.25abcd	8.63bcde
Baythroid XL 1EC	0.017	9.00cd	7.00abc	8.00bcde
Baythroid XL 1EC	0.022	7.75cd	4.25bcd	6.00def
Avaunt 30WG	0.065	3.50d	1.25d	2.38f
Avaunt 30WG	0.11	6.00cd	1.25d	3.63ef
Rimon 0.83EC	0.079	20.75a	3.00cd	11.88ab
Rimon 0.83EC	0.058	13.75abc	4.25bcd	9.00bcd
Imidan 70WP	0.93	12.25abc	11.00a	11.63abc
Capture 2EC	0.05	6.50cd	7.00abc	6.75cdef
Non-Treated		19.5ab	9.25ab	14.13a
<i>P&gt;F</i>		<0.01	<0.01	<0.01

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

<sup>1</sup>Means across all sample dates.