



www.ipm.ucdavis.edu

Tomato—Sequential Sampling for Armyworms on Tomato Fruit

Supplement to UC IPM Pest Management Guidelines: Tomato

Grower _____ Date of survey _____

Field location _____ Comments _____

Fruit sampling directions

1. Pick fruit that are 1 inch or more in diameter to check for damage due to caterpillars.
2. Start with a sample of 100 fruit, picking them at random one at a time.
 - Count any fruit that contains a larva or feces, has a hole deeper than 1/10 inch, or has a shallow injury that will not scar over by harvest.
 - Don't count shallow injuries that will scar over by harvest.
3. Tally damaged fruit in the columns below using either the 2% or 1% threshold.
4. To reach a treatment decision:
 - Treat if the total number of damaged fruit reaches or exceeds the number in the "treat" column.
 - If the total matches or drops below the "don't treat" level for the number of fruit checked, stop and sample again next week.
 - If the total remains between the two columns after you have checked 300 fruit, stop and sample again in 2 or 3 days.

2% insect damage threshold

Number of fruit sampled	Number of fruit damaged by:		Don't treat	Total damaged fruit	Treat
	Armyworms	Fruitworms			
100			1		7
125			2		8
150			2		9
175			3		10
200			3		11
225			4		12
250			4		13
275			5		13
300			5		14

1% insect damage threshold

Number of fruit sampled	Number of fruit damaged by:		Don't treat	Total damaged fruit	Treat
	Armyworms	Fruitworms			
100			1		5
125			2		5
150			2		6
175			3		6
200			3		7
225			4		7
250			4		8
275			5		8
300			5		8