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Dry Beans—Lygus Survey

Supplement to UC IPM Pest Management Guidelines: Dry Beans

Grower _____ Field _____ Variety _____

Directions

Use a standard sweep net with a diameter of 15 inches (37.5 cm) to determine lygus bug numbers (adults and nymphs). One sample consists of 5 to 10 sweeps across an area or quadrant in the field.

1. Start sampling during the bud stage, checking fields twice weekly.
2. Take a series of five to ten sweeps, passing the net through the top of two rows of bean plants (one bed for double row plantings or two beds for single row plantings).
3. Walk briskly down the row and swing the net in front of you so that the lower edge of the rim strikes the plants about 10 inches (25 cm) from the top.
4. Keep the lower tilted edge slightly ahead of the upper edge.
5. Keep the sweeps far enough apart that you do not sweep plants that have already been jostled by the net (closely spaced sweeps may cause lygus bugs to fly or drop from the plants and thus be missed).
6. Keep the net moving to prevent adults from flying out.
7. Count all lygus bugs caught in net, including nymphs. Record number of lygus bugs on the form and average the population (number of lygus per sweep) per quadrant or area of the field.
8. Treatment thresholds (below) are based on bean yield; however, these thresholds may not reflect losses in bean quality.
9. Note that mid-morning evaluations are more accurate than afternoon evaluations because hot weather cause lygus bugs to retreat into the lower sections of the canopy.
10. Pull apart canopy in vine type varieties and visually inspect for lygus bugs along with sweeping.
11. Be sure not to confuse aphids or bigeyed bug nymphs with small lygus bugs.

Date		Date		Date	
Quadrant or area in field	Number of lygus bugs/10 sweeps	Quadrant or area in field	Number of lygus bugs/10 sweeps	Quadrant or area in field	Number of lygus bugs/10 sweeps
1		1		1	
2		2		2	
3		3		3	
4		4		4	
5		5		5	
6		6		6	
Total		Total		Total	
Average		Average		Average	

Date		Date		Date	
Quadrant or area in field	Number of lygus bugs/10 sweeps	Quadrant or area in field	Number of lygus bugs/10 sweeps	Quadrant or area in field	Number of lygus bugs/10 sweeps
1		1		1	
2		2		2	
3		3		3	
4		4		4	
5		5		5	
6		6		6	
Total		Total		Total	
Average		Average		Average	

Treatment thresholds: *Blackeyes:* 0.5 lygus bug per sweep during bud through small pod stage; 1.0 bug per sweep later in season. *Baby Limas:* Luna variety 1.0 to 1.5 lygus per sweep from bloom to flowering; 1.5 to 2.0 per sweep later in season. *Limas, all other varieties:* 0.5 lygus bug per sweep during early bloom; 1.0 to 2.0 bugs per sweep later in season. *Common beans:* 1.0 to 1.5 bugs per sweep.