



www.ipm.ucdavis.edu

# Cotton—Aphid and Whitefly Monitoring

## Supplement to UC IPM Pest Management Guidelines: Cotton

Take a combined sample for aphids and whitefly at least once a week.

- Directions:**
1. Beginning at least 50 paces into the field, pick a plant at random and turn over the 5<sup>th</sup> leaf from the terminal. Examine the underside of the leaf with a hand lens.
  2. Count the aphids and record the number and color.
  3. Check for whitefly adults. If 3 or more are present, note the leaf as infested on the form.
  4. Note the presence (+) or absence (-) of large whitefly nymphs in the area defined by a leaf disc.
  5. Move 20 paces further into the field and select another plant to examine. Repeat the steps above in 4 representative areas of the field for a total of 40 plants.
  6. Compute average infestation levels and compare with treatment thresholds.
  7. Check field edges for whitefly migration.

Grower \_\_\_\_\_ Field \_\_\_\_\_ Date \_\_\_\_\_

Plant number	Aphids		Whitefly		Natural enemies (Note species)
	Count	Yellow or Black	Adults: (+) if 3 or more	Nymphs: (+ or -)	
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

### Cotton—Aphid and Whitefly Monitoring (continued)

Plant number	Aphids		Whitefly		Natural enemies (Note species)
	Count	Yellow or Black	Adults: (+) if 3 or more	Nymphs: (+ or -)	
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	<b>Total:</b>		<b>Total:</b>	<b>Total:</b>	
	<b>Average:</b>		<b>Percent infested:</b>	<b>Percent infested:</b>	
	<b>Aphids:</b> First square to open boll: 50-75 aphids per leaf. After open boll: 10-15 small yellow aphids or large black aphids per leaf.		<b>Whitefly:</b> Adults: 40%. Do not use IGRs if nymphs absent. If no nymphs, but 10 or more adults per leaf, treat field edges only if infestation limited to edges. Nymphs: 40%		

