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Plum—Spring Sampling for Mealy Plum Aphids (MPA) and Leaf Curl Plum Aphids (LCPA)

Supplement to UC IPM Pest Management Guidelines: Plum

Directions:

1. Visually sample 40 whole trees (half of the tree on your right and half of the tree on your left) as you walk along the orchard edge and through known hot spots. Take about 10 minutes for all 40 trees, or 15 seconds per whole tree, using a stopwatch or kitchen timer to time yourself.
2. On the form below, note presence (+) or absence (-) of each species of aphid. Circle the "Whole-tree number" for trees that have more than 10% of their leaf surface covered with aphids. These trees have a SIGNIFICANT population.
3. After you have examined all 40 trees, combine the totals of both aphid species on the form below.

Grower/Orchard: _____

Date: _____

First search (10 minutes)

Whole-tree number	Block 1		Block 2		Block 3	
	Live MPA	Live LCPA	Live MPA	Live LCPA	Live MPA	Live LCPA
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Whole-tree number	Block 1		Block 2		Block 3	
	Live MPA	Live LCPA	Live MPA	Live LCPA	Live MPA	Live LCPA
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
Total trees with live aphids						
Total trees with significant live aphids						
Treatment threshold	12 or more trees with significant aphids		12 or more trees with significant aphids		12 or more trees with significant aphids	
Treatment decisions:						
<ul style="list-style-type: none"> • If total trees per block (about 40 acres) with significant live aphids is less than 12 but more than 4, take another 5 minutes to search another 20 trees. Record results on page 2. • If 12 or higher, stop sampling and treat. • If 4 or less, stop sampling. 						

Grower/Orchard: _____

Date: _____

First 5-minute search

(required only if no decision is made in 10-minute search)

Whole-tree number	Block 1		Block 2		Block 3	
	Live MPA	Live LCPA	Live MPA	Live LCPA	Live MPA	Live LCPA
<i>Totals from prior search</i>						
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
Total trees with live aphids						
Total trees with significant live aphids						
Treatment threshold	16 or more trees with significant aphids		16 or more trees with significant aphids		16 or more trees with significant aphids	

- If total trees per block with significant aphids from both searches is less than 16 but more than 8, take one, last 5-minute search of 20 trees. Record on form to the right.
- If 16 or higher, stop sampling and treat.
- If 8 or less, stop sampling
- If total trees per block with significant aphids from all searches is less than 16, no treatment is needed.
- If 16 or higher, stop sampling and treat.

Second 5-minute search

(required only if no decision is made in first 5-minute search)

Whole-tree number	Block 1		Block 2		Block 3	
	Live MPA	Live LCPA	Live MPA	Live LCPA	Live MPA	Live LCPA
<i>Totals from prior searches</i>						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79						
80						
Total trees with live aphids						
Total trees with significant live aphids						
Treatment threshold	16 or more trees with significant aphids		16 or more trees with significant aphids		16 or more trees with significant aphids	
	If total trees per block with significant aphids from all searches is less than 16, no treatment is needed. If 16 or higher, stop sampling and treat.					

