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

Supplement to UC IPM Pest Management Guidelines: Prune

For Print Use Only

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 stop watch or kitchen timer to time yourself.
2. On the form below, note presence (x) or absence (o) of each species of aphid. Put a circle around the X of trees that have a significant population of aphids (one that occupies 10% or more of the tree's leaf surface as determined by a visual search).
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:
- 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: _____

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5-minute search

Whole-tree number	Block 1		Block 2		Block 3	
	Live MPA	Live LCPA	Live MPA	Live LCPA	Live MPA	Live LCPA
Totals from prior search						
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.

Second 5-minute search

Whole-tree number	Block 1		Block 2		Block 3	
	Live MPA	Live LCPA	Live MPA	Live LCPA	Live MPA	Live LCPA
Totals from prior searches						
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.