



www.ipm.ucdavis.edu

Prune—Dormant Spur Sampling for San Jose Scale (SJS), European Fruit Lecanium (EFL), Aphids, and Mites

Supplement to UC IPM Pest Management Guidelines: Prune

- Directions:**
1. Clip off 2-3 spurs randomly from each of 35 to 50 trees in the orchard, for a total of 100 spurs.
 2. Using a hand lens or microscope, examine spurs for scales, mite eggs, and aphid eggs. (If aphids were not treated in early November.)
 3. On the form below, note presence or absence of each pest on each spur for the first 20 spurs. Add up totals after every 20 spurs (including previous samples) and compare to treatment decision guidelines below. Continue as needed using pages 2 and 3.

Grower/Orchard: _____

Date: _____

Spur number	Spurs with				
	Live SJS	Parasitized SJS	EFL	Aphid eggs	Mite eggs
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Total					
Treatment threshold	4 or more	Information only	4 or more	1 or more	No treatment recommended

Treatment decisions:

- If either SJS- or EFL-infested spurs are less than 4 but more than 0, examine another 20 spurs and record on chart to the right.
- If 4 or more unparasitized scales of one species are found, treat.
- If any aphid eggs are present, and a treatment was not applied in November, treat.
- If no samples with scale or aphid eggs are found, stop sampling.
- No treatment is recommended for mites.

Spur number	Spurs with				
	Live SJS	Parasitized SJS	EFL	Aphid eggs	Mite eggs
<i>Totals from prior sample</i>					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
Total					
Treatment threshold	6 or more	Information only	6 or more	1 or more	No treatment recommended

Treatment decisions:

- If grand total of either SJS- or EFL-infested spurs is less than 6 but more than 1, look at another 20 spurs and record on first chart on page 2.
- If 6 or higher stop sampling and treat.
- If 1, stop sampling.
- If any aphid eggs are present, and a treatment was not applied in November, treat.
- No treatment is recommended for mites.

Grower/Orchard: _____

Date: _____

Prune—Dormant Spur Sampling for San Jose Scale (SJS), European Fruit Lecanium (EFL), Aphids, Mites (continued)

Spur number	Spurs with				
	Live SJS	Parasitized SJS	EFL	Aphid eggs	Mite eggs
<i>Totals from prior sample</i>					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
Total					
Treatment threshold	8 or more	Information only	8 or more	1 or more	No treatment recommended

Treatment decisions:

- If grand total of either SJS- or EFL-infested spurs is less than 8 but more than 3, look at another 20 spurs and record on chart to the right.
- If 8 or higher, stop sampling and treat.
- If 3 or less, stop sampling.
- If any aphid eggs are present and a treatment was not applied in November, treat.
- No treatment is recommended for mites.

Spur number	Spurs with				
	Live SJS	Parasitized SJS	EFL	Aphid eggs	Mite eggs
<i>Totals from prior sample</i>					
61					
62					
63					
64					
65					
26					
67					
68					
69					
70					
71					
72					
73					
74					
75					
76					
77					
78					
79					
80					
Total					
Treatment threshold	9 or more	Information only	9 or more	1 or more	No treatment recommended

Treatment decisions:

- If grand total of either SJS- or EFL-infested spurs is less than 9 but more than 5, look at another 20 spurs and record on chart on page 3.
- If 9 or higher, stop sampling and treat.
- If 5 or less, stop sampling.
- If any aphid eggs are present and a treatment was not applied in November, treat.
- No treatment is recommended for mites.



Grower/Orchard: _____

Date: _____

Prune—Dormant Spur Sampling for San Jose Scale (SJS), European Fruit Lecanium (EFL), Aphids, Mites (continued)

Spur number	Spurs with				
	Live SJS	Parasitized SJS	EFL	Aphid eggs	Mite eggs
<i>Totals from prior sample</i>					
81					
82					
83					
84					
85					
86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					
97					
98					
99					
100					
Total					
Treatment threshold	10 or more	Information only	10 or more	1 or more	No treatment recommended

Treatments decisions:

- If grand total of either SJS- or EFL-infested spurs is 10 or more, treat.
- If less than 10, no treatment is recommended.
- If any aphid eggs are present and a treatment was not applied in November, treat.
- No treatment is recommended for mites.

