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Plum—Dormant Spur Sampling San Jose Scale (SJS), European Fruit Lecanium (EFL), Aphid Eggs, and Mites

Supplement to UC IPM Pest Management Guidelines: Plum

- Directions:**
1. Clip off 2 to 3 spurs from each of 35 to 50 trees for a total of 100 spurs. Choose these spurs randomly from the inside of the tree canopies near the main scaffold. Clip the spur off at the base and include some old spur wood along with the past season's growth to detect parasite activities on scales.
 2. Using a hand lens or microscope, examine the spurs and note the presence (+) or absence (-) of each pest on the form below. You don't need to count the individual insects or mite eggs, just identify the pest and record whether it is present. Compare the results to the treatment guidelines on page 2.
 3. Only record the presence of aphid eggs if a treatment was not applied in November.

Grower/Orchard: _____

Date: _____

Spur number	Spurs with					
	SJS		EFL		Aphid eggs (+/-)	Mite eggs (+/-)
	Live (+/-)	Parasitized (+/-)	Live (+/-)	Parasitized (+/-)		
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						
30						
31						

Spur number	Spurs with					
	SJS		EFL		Aphid eggs (+/-)	Mite eggs (+/-)
	Live (+/-)	Parasitized (+/-)	Live (+/-)	Parasitized (+/-)		
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						
48						
49						
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52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						

Spur number	Spurs with					
	SJS		EFL		Aphid eggs (+/-)	Mite eggs (+/-)
	Live (+/-)	Parasitized (+/-)	Live (+/-)	Parasitized (+/-)		
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79						
80						
81						
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83						
84						
85						
86						
87						
88						
89						
90						
91						
92						
93						
94						
95						
96						
97						
98						
99						
100						
Total						
% Presence						

Pest	Treatment threshold		Treatment
European fruit lecanium	24% and below		No spray
	Over 24%		Oil only
Overwintering mite eggs (brown mite and European red)	Below 20%		No spray
	20% and over		Oil only
Overwintering aphid eggs (mealy plum aphid or leaf curl plum aphid)	If any		See PMGs for materials
San Jose scale	<i>Harvested before June 15</i>	<i>Harvested after June 15</i>	
	Below 20%	Below 5%	No treatment
	20-60%	5-10%	Oil at 6 gal/acre
	Over 60%	Over 10%	Oil at 6 gal/acre plus insect growth regulator ¹

¹If you find a large number of parasitized scales, minimize the use of insecticides during the growing season, and use those that are not harmful to parasites so that naturally occurring parasite populations will not be destroyed.

