

California Red Scale

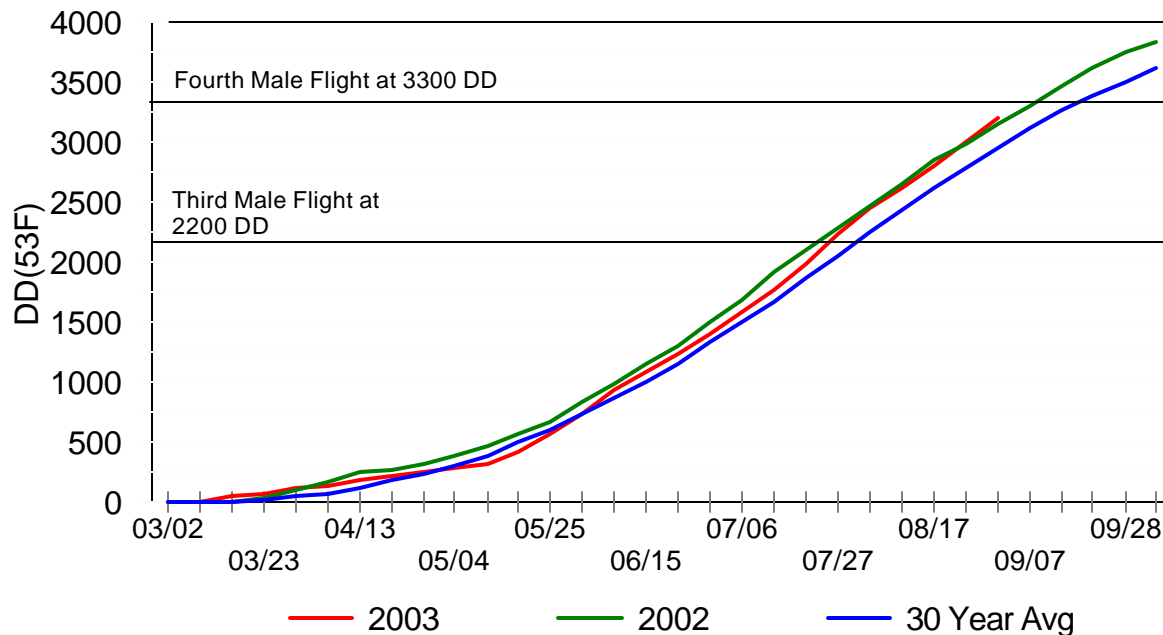
	1st male flight	1st gen. crawler s	2nd male flight	2nd gen. crawlers	3rd male flight	3rd gen. crawlers	4th male flight	4th gen. crawlers	5th male flight
Estimated Degree Days	biofix	550 DD	1100 DD	1650 DD	2200 DD	2750 DD	3300 DD	3850 DD	4400 DD

Current Accumulated Degree Day units – lower developmental threshold 53°F

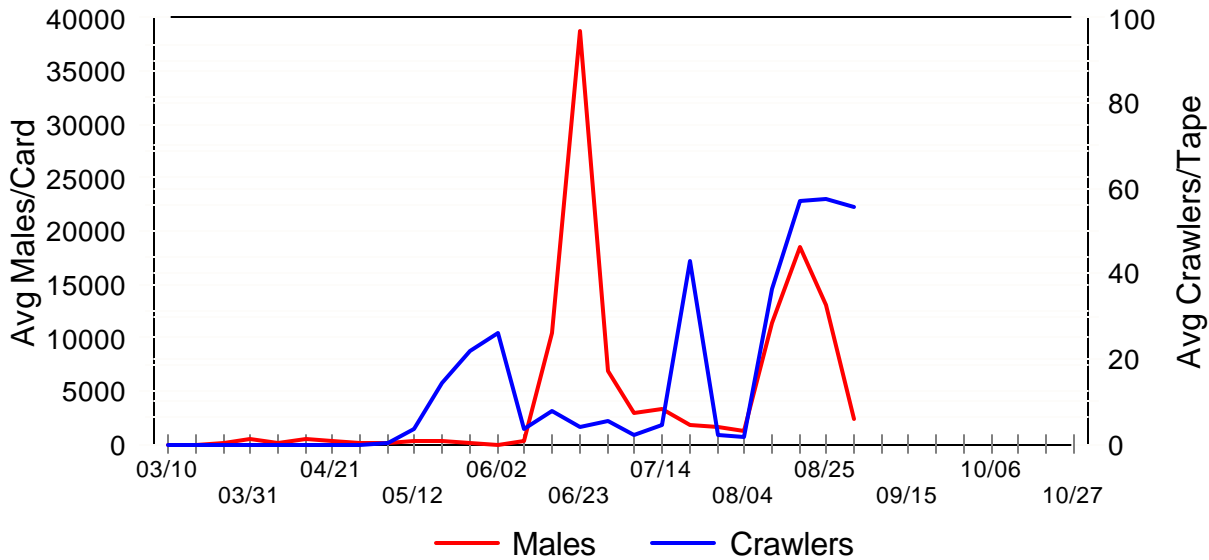
Region	Biofix	Current DD
Kern	March 9	3250 DD
Foothills	March 9	3190 DD
S. Tulare	March 9	3070 DD
N. Tulare	March 9	3140 DD
Fresno	March 16	2970 DD
Madera	March 16	2515 DD

The current red scale degree-day accumulation is about equal with 2002, and is about a week to ten days ahead of the thirty year average. Although there have been fewer days above 100° than last year, warmer nightly temperatures have kept the scales’ metabolism running at high speed. The graph below compares the current degree-day accumulation with last year’s and the thirty year average. The fourth male flight has started in some areas and so it is time to place your pheromone cards in the field to collect the fourth flight of male scale.

California Red Scale Degree-Days Lindcove Field Station



California Red Scale 2003 Lindcove Citrus Field Station Block 21



At the Lindcove Research Center, the first male flight (biofix) occurred the first week of March, although on the above graph it is hardly visible. The second flight occurred mid June, and the third flight peaked in mid August. The fourth flight is expected to begin the week of September 8th and crawler production can be expected to be nearly continuous for the remainder of the season as generations overlap.

California Red Scale Resistance Monitoring

We have requested funding from the Citrus Research Board to monitor for Esteem resistance in California red scale. We do this by collecting fruit that has crawler producing females on it. We have to conduct this test the old-fashioned way- we dip fruit with white caps in the pesticide and then wait two-weeks to see if they survive. We could use your help identifying orchards that have scale and that do not seem to be controlled by Esteem. If you have such an orchard, please contact Greg Montez at the Kearney Ag Center (559-646-6597). We will need you to provide us with a map of the orchard location and the pesticide history of that orchard for the years 1998-2003. We will need to collect 80+ scale-infested fruit per orchard to run the test.

We would also like to retest red scale in orchards that previously had high levels of resistance to organophosphates and see if the resistance levels have dropped low enough that these pesticides could be used again. Please let Greg know if you have a site we tested during 1996-97 for OP resistance and you would like to have it retested.

Citricola Scale

Citricola scale has been the most aggravating pest this year. The cool wet spring created perfect conditions for egg hatch and nymph survival. We normally see high kill of nymphs during prolonged heat, but the weather has been humid and the nymphs are not dying very easily. I have had several pest control advisors bring in honeydew covered leaves wondering if the citricola scale is still alive in spite of insecticide treatments. The citricola scale are all dead and the honeydew is probably left over from last spring. The humid weather conditions have kept it moist. The loss of Lorsban due to lowered Japanese MRLs has forced PCAs to try a number of different citricola scale management strategies. During the round table described below we will discuss how effective the various pesticide treatments have been this season.

You are invited to A Citrus Round Table Discussion

Moderator: Dr. Beth Grafton-Cardwell

* Citricola scale

- Dr. Robert Luck (UC Riverside) - life cycle, biological control, and twig sampling of citricola scale
- Dr. Beth Grafton-Cardwell - leaf sampling and chemical control of citricola scale
- Citricola scale - Review of 2003 treatments

* Cottony cushion scale/vedalia beetle observations

- IGR performance and red scale pressure in 2003

Wednesday September 24, 2003

10:00 am to 2:00 pm

Kearney Ag Center

9240 S. Riverbend Ave. (SE corner of Riverbend and Manning)
Parlier, California

Cost includes lunch: \$25.00 members/ \$30.00 non-members

RSVP by Sept 22nd Sylvie Robillard (559) 592-9461
Email: srobillard@pestmgmt.net

Sponsored by: Association of Applied IPM Ecologists and the Applied Insect Ecologists
Foundations.

Proceeds go to support scholarships in I.P.M.