




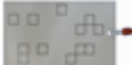
Technical Bulletin for: California Red Scale

Aonidiella aurantii (Maskell) • Hemiptera, *Diaspididae* • AONAUUR



DISTRIBUTION	Found in most growing areas of the world.
HOSTS	All citrus but primarily lemons and grapefruit
DESCRIPTION	
Adult	Female scales have a roundish cover and are reddish-brown in color and about 2.1 mm in diameter.
Larvae	Crawler (first instar) is the only stage at which female scales can move, but rely on wind, birds, machinery or labor crews to move from tree to tree.
Eggs	
LIFE HISTORY	California red scales overwinter on twigs and leaves after harvest. Adult females are legless and immobile. Individual females can produce 150 crawlers. The life cycle can be completed in six weeks, and multiple generations can occur annually.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	(Z)-3-Methyl-6-isopropenyl-3,9-decadienyl acetate in a Red Rubber Septum. Lure longevity: four (4) weeks.	
TRAP TO USE	Scale card	
MONITORING STRATEGY	Traps should be hung just prior to the predicted 1st, 2nd, and 4th flights: for the first flight this is around March 1, for the second flight it is at 1,100 degree-days after the biofix of the first male flight, and the fourth flight at 3,300 degree-days from biofix. Use between two and four traps per 10-acre block. Use an additional two traps for each 10 acres. Remove traps at the end of each flight and count scales. Check with Cooperative Extension or Master Gardener for local information and recommendations.	
CULTURAL & PHYSICAL CONTROL	The movement of red scale by wind or birds cannot be easily prevented, but scale movement can be prevented by cleaning boxes, ladders, bags and other picking equipment after working in infested trees and before moving on to work in non-infested trees. Clothing should also be well brushed to prevent the spread of crawlers.	

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