

Pome Fruits—Chemical Control

Control of the Twospotted Spider Mite Using Registered Acaricides in Mid-Season Applications

Philip VanBuskirk, Richard Hilton and Peter Westigard
Southern Oregon Experiment Station, Medford, OR

Keywords: twospotted spider mite, Vendex, Carzol, Vydate, Imidan, pear

This trial was set up to evaluate the effectiveness of registered acaricides Vendex, Carzol and Vydate on twospotted spider mite (*Tetranychus urticae*) when used mid-season, 5 Jun (2nd cover). Plots consisted of mature 'Bosc' pear trees planted on a 25 by 25 ft spacing, with applications applied to 3 single tree replicates, arranged in a randomized block design. All applications were made using an FMC Bean handgun sprayer operating at 300 psi, with trees sprayed until runoff. Additional sprays applied to the entire orchard during the trial were Imidan 50% WP 5 lb/acre 2 Jul. Treatments were evaluated at 10-day intervals by randomly sampling 15 mature leaves per tree, brushing the leaves, and counting the number of TSM eggs and post-egg stages with the aid of a dissecting microscope.

Based on the data collected, the three acaricides Vendex, Carzol and Vydate did temporarily reduce mite populations but were unable to reduce TSM populations below the damage threshold of 5 mites per leaf when used in this mid-season application.

Treatment	Rate/100 gal	Average number of mites per leaf			
		Pre-count	15 Jun	25 Jun	7 Jul
Vendex 4L	6 oz	18.04	15.04	21.60	58.04
Carzol 92SP	0.5 lb	25.78	36.58	10.98	32.76
Vydate 2L	1 qt	23.37	18.14	15.47	34.98