

II. Pome Fruits
 d. Chemical Control
 1. Twospotted Spider Mite (TSM), Pear

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CONTROL OF THE TWOSPOTTED SPIDER MITE USING REGISTERED ACARICIDES IN MID SEASON APPLICATIONS- 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 June (2nd Cover). Plots consisted of mature 'Bosc' pears trees planted on a 25' by 25' 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 run off. Additional sprays applied to the entire orchard during the trial were Imidan 50% WP 5 lb./acre 2 July. Treatments were evaluated at 10 day intervals by randomly sampling 15 mature leaves per tree, brushing the leaves, and counting the number of TMS 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 per 100 gal.	Average Number of Mites per Leaf			
		pre- Count	15 June	25 June	7 July
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