

Chemical Control

Twospotted Spider Mite and Pear Psylla: Chemical Evaluations

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A test was conducted in a block of Comice pear trees to evaluate the efficacy of a number of acaricides and/or psyllicides. The initial numbers of both twospotted spider mite and pear psylla were extremely high when this trial was initiated. The post treatment averages for twospotted spider mite, pear psylla and predatory mites are shown below. Treatment with either Provado or Mitac resulted in increased twospotted spider mite levels, unlike the Mitac treatment, high numbers of predator mites were observed in the Provado treatment. The addition of Savey to the Provado treatment eliminated the mite resurgence. With regards to control of pear psylla, Mitac and Pyramite provided the highest levels of pear psylla control while Agrimek was the least effective and the Provado treatments were intermediate.

Late season application (July 10, 1997) of acaricides and/or psyllicides to Comice Pear
Application made with handgun sprayer (200 gpa)
Data shown are averages from four single tree replicates

Post treatment averages (7/22—8/22), number per leaf

<u>Treatment</u>	<u>Twospotted Spider Mite</u>		<u>Pear Psylla</u>		<u>Predator Mites</u>
	<u>Eggs</u>	<u>Motiles</u>	<u>Eggs</u>	<u>Nymphs</u>	<u>All Stages</u>
Pyramite 60W 8.8 oz/ac	1.0 a	0.5 a	0.5 a	0.4 a	0.03 ab
Provado 1.6F 20 oz/ac	30.7 d	27.3 c	0.9 abc	0.9 ab	0.70 c
Provado 1.6F 20 oz/ac + Savey 50W 4 oz/ac	4.0 b	0.6 a	1.4 bc	1.4 ab	0.20 b
Mitac 50 W 3 lb/ac	23.5 d	17.6 bc	0.7 ab	0.2 a	0 a
Agrimek 0.15EC 16 oz + oil 0.25%	1.0 a	0.9 a	1.2 bc	2.1 bc	0.10 ab
Check	14.6 c	15.2 b	1.4 c	2.6 c	0.18 ab

Means within a column followed by the same letter are not significantly different ($P=0.05$ Fisher's protected LSD). Data were subjected to the $\log(x + 1)$ transformation prior to analysis.