

IV. Nuts

Chemical control

1. Pacific mite - almonds

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Summer treatments were made by high pressure hand gun and are shown as numbers of mites/10 leaves.

	<u>Rate/acre</u>	<u>12 days</u>	<u>20 days</u>
Vendex	1.5 pts.	2c	7c
Vendex + Nat. oil	1.5 pts. + 1 qt.	40c	4c
Vendex + orchex	1.5 pts. + 2 gals.	3c	6c
Omite	6 lbs.	3c	1c
RSB 2-8	3.3 gals.	62b	93a
RSB 2-9	3.3 gals.	140ab	14bc
SIS + SSUF	2 gals. + 4 ozs.	29b	16b
SSUF	8 gals.	14bc	11c
Orchex	8 gals.	8c	10c
EL436	8.5 ozs.	7c	24b
EL436	17 ozs.	22bc	19b
Danitol	10.6 ozs.	4c	6c
Danitol	21.3 ozs.	2c	2c
Apollo	8 ozs.	20bc	26b
Check	--	157a	126a

Kelthane, Vendex and Omite are still commercially effective as miticides. To back these compounds up are the oils alone or in combination. The fatty acid soaps and foliar nitrogen may well have a place either in combination or through repeated applications. Danitol, Apollo, Mitac, EL436 all have control capabilities.

Table 1. Peak rates of parasitism of stink bug egg masses¹ in pistachio orchards in 1988 and 1989.

ORCHARD	INSECTICIDE USE	DATE(S)	PEAK % PARASITISM
1988			
Brentwood	Unsprayed	7/13	100
Winters	Unsprayed	7/12, 8/26, 9/4	100
Lincoln	Unsprayed	7/12	29
Wolfskill	Unsprayed	7/29	100
Roseville	Commercial ²	7/6	100
1989			
Brentwood	Unsprayed	7/27	60
Winters II	Unsprayed	8/23	62
Wolfskill	Unsprayed	8/26	45
Orland	Commercial	Entire Season	0
Roseville	Commercial	8/23	62

¹ Approximately 60.1% of the eggs within a single egg mass are parasitized. Rates of parasitism includes all species of *Trissolcus* and *Anastatus*.

² Single application of permethrin on 4/12/88.

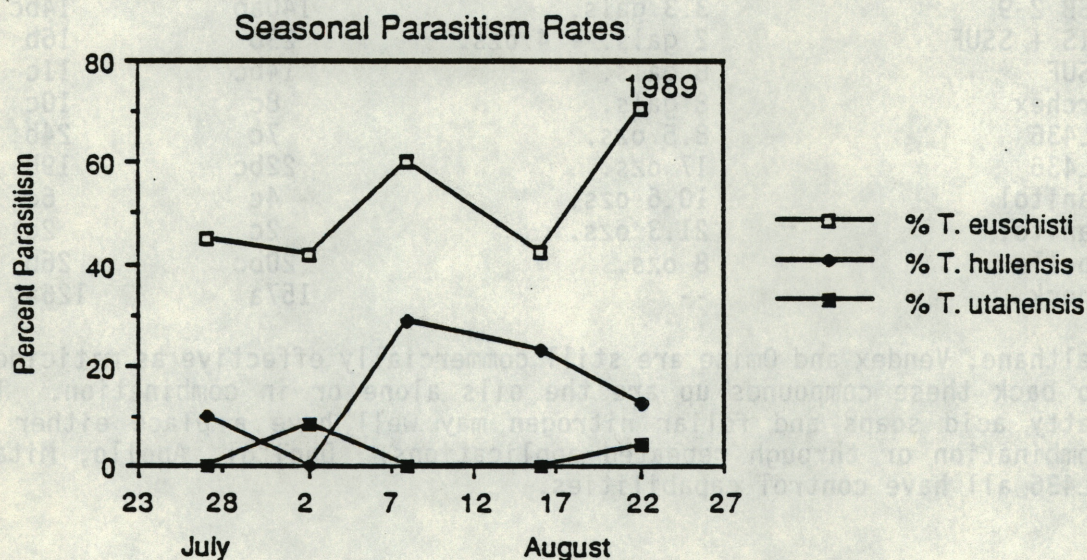


Fig. 1. Seasonal Rates of Parasitism of Stink Bug Egg Masses

Names of Compounds Evaluated

Compound	Company
Andalin	UniRoyal
Apollo	NorAm
Danitol	Valent
EL436	Elanco
Kelthane	Rohm & Haas
Natural oil (cottonseed)	(number of suppliers)
Omite	UniRoyal
Orchex 796 oil	Exxon
potassium nitrate	(number of suppliers)
foliar spray	
RSB 2-8 fatty acids	Safer, Inc.
RSB 2-9 fatty acids	Safer, Inc.
SIS fatty acids	Safer, Inc.
SSUF oil	Safer/Sun
Vendex	DuPont