

Stone Fruits—Chemical Control

Oriental Fruit Moth on Peach

J. Dibble

University of California Kearney Agricultural Center, Parlier, CA

*Keywords:* oriental fruit moth, Cryolite, Asana, Imidan, Guthion, Diazinon, Sevin, peach

Oriental fruit moth is a serious pest of peaches in California, worse in some areas than others as well as season to season. A desired limited use of some chemicals along with questionable performance of others gave rise to a reevaluation of the product Cryolite. Although these trials were targeted for application against the spring population, they were not actually applied until summer.

Other products used for control evaluation and comparison were Asana, Diazinon, Guthion, Imidan and Sevin. Shoot strikes made three weeks after an early July application showed Imidan, Diazinon, Asana and Guthion to be better than the Sevin and Cryolite treatments. The average percent infested fruit at harvest again indicated Imidan and Diazinon still to be functional in control. Asana followed closely, with Cryolite equal to the untreated check and Guthion in the middle between the best and worse treatments. The Cryolite results were somewhat anticipated due to OFM feeding habits. Earlier season trials might show a more vigorous feeding and greater chemical ingestion.

**Table 1.**

Treatment <sup>1</sup>	Form.	Rate/acre	Total number <sup>2</sup> shoot strikes		Average % infested fruit and harvest <sup>3</sup>
			per treatment	per tree	
Cryolite	96	12 lb	49	4.1	6.3a
Cryolite	96	12 lb	37	3.1	4.8a
+ Asana	XL	2 oz			
Asana	XL	10 oz	22	1.8	1.3c
Imidan	50W	4 lb	0	0	0.8cd
Guthion	50W	2 lb	27	2.3	2.8b
Diazinon	50W	4 lb	11	0.9	0.3cd
Sevin	50W	8 lb	44	3.7	4.3ab
Check	--	--	55	4.6	5.5a

<sup>1</sup>Applications made in July to Andross cling peaches using high pressure handgun @400 gpa; used third biofix of 6/16 for treatment timing of 7/2 to 7/6, Fresno Co., 1993.

<sup>2</sup>Shoot strike counts made on each tree 3 weeks after application; four replications/treatment and three trees/replication.

<sup>3</sup>25 fruit/replication examined at harvest, 8/18.