

III. Stone Fruits  
 d. Chemical control  
 1. Oriental Fruit Moth - Peaches

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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 reevaluate 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 a 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.

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

<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 7/2-7/6. Fresno Co. 1993.

<sup>2</sup>Shoot strike counts made on each tree 3 weeks after application. Four replications/treatment and 3 trees/rep.

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