

Nuts—Chemical Control

Navel Orangeworm in Almond

J. Dibble and S. Haire

University of California, Kearney Agricultural Center, Parlier, CA

*Keywords:* navel orangeworm, Imidan, Guthion, Dipel, Javelin, Asana, Sevin, *Bt*, almond

The beginning of almond hullsplit (July) is the proper timing for navel orangeworm (NOW) chemical control. Guthion is one of the common materials applied. Another OP, a carbamate, two *Bts* and a pyrethroid were compared to Guthion and evaluated at harvest (Sept) as to percent larval feeding in the hulls and nuts.

Performance of Imidan properly buffered was good to very good except for one formulation. Asana also gave good results with the *Bt* Javelin slightly behind in performance. Dipel and Sevin treatments resulted in the poorest control.

**Table 1.** Navel orangeworm hull split applications and control in almond, 1992.

Chemical <sup>1</sup>	Form.	Rate/acre	Harvest samples	
			% larval feeding (nuts)	No. live larva (hulls and nuts)
Imidan (std.)	50W	6 lb	4.4c	0
Imidan (std.)	50W	8 lb	3.3c	0
Imidan (new form.)	50W	6 lb	6.6b	1 PTB 1 NOW
Imidan (new form.)	50W	8 lb	4.4c	0
Imidan	70W	4.3 lb	3.3c	0
Imidan	70W	5.7 lb	2.2cd	0
Guthion	50W	4 lb	3.3c	0
Dipel	2X	2 lb	7.7b	1 PTB 3 NOW
Imidan (std.) + oil	50W 0-796	4 lb 4 gal	3.3c	0
Javelin	WG	1 lb	5.5bc	1 PTB 2 NOW
Asana	XL	20 oz	4.4c	1 NOW
Sevin	50W	6 lb	8.8ab	2 PTB 3 NOW
Check	--	--	12.2a	4 PTB 5 NOW

<sup>1</sup>Applications by high pressure and high gallonage on 7/23/92.