

Stone Fruits—Biological Control

Comparison of Oriental Fruit Moth Mating Disruption Dispensers

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Oriental fruit moth mating disruption dispensers were compared in side-by-side trials in several peach and nectarine orchards in 1992. Isomate-M dispensers from Pacific Biocontrol were applied twice during the season at 400 dispensers per acre; Checkmate-OFM dispensers from Consep Membranes, Inc. were applied twice at 200 dispensers per acre. These are the recommended label rates for each product.

The results of these comparisons (Table 1) show that in most of the trials both dispenser treatments reduced OFM damage about equally compared to untreated checks. With the exception of the Kingsburg O'Henry plot, the Isomate material showed a lower numerical trend in harvest damage, but these differences were not statistically significant. The value of two applications of pheromone was again shown in the Kingsburg trial when compared to the single application treatment. As observed in previous trials, OFM mating disruption began to break down even with two applications of pheromone in cultivars harvested after late July.

Table 1. Comparison of OFM mating disruption using Isomate-M vs. Checkmate-OFM dispensers at label rates, 1992.

Plot	Cultivar	Harvest	Treatment	% infested
KAC Fld. 13	Red Diamond	6/22	Isomate	0.1
			Checkmate	0.3
			Check	3.2
	Elegant Lady	7/6	Isomate	0.0
			Checkmate	0.1
			Check	1.0
	Fairtime	8/18	Isomate	1.9
			Checkmate	3.2
			Check	20.2
Kingsburg	O'Henry	7/25	Isomate (1X)	3.0
			Checkmate (2X)	2.0
Modesto	Dr. Davis	7/30	Isomate ¹	1.4
			Checkmate ¹	2.0
Exeter	Starn	8/10	Isomate ²	1.4
			Checkmate ²	1.8

¹Oversprayed with esfenvaterate June 20, 1992.

²Oversprayed with *Bt* May 11, 21; June 18 with azinphosmethyl.