

Biological Control

Codling Moth on Pears

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*Keywords:* codling moth, Guthion, pear

In the fall of 1992, our postharvest fruit removal program for control of codling moth (CM) was able to reduce the spring flight in 1993 by approximately 35%. In our 5- to 10-acre plots, better control was achieved in the larger plots.

Following harvest in 1993, we selected six isolated sites where the stripped test plots would not be adjacent to untreated pears. In each orchard 5- to 10-acre blocks were hand stripped of nearly all remaining fruits. Ten-acre blocks next to that were sprayed with Guthion (3 lb/acre). The remaining portion of the orchard was utilized as the untreated control. In the spring of 1994, each plot was monitored weekly with 4-9 bait pans hung high in the trees. Trap catches in 1994 indicated significant suppression of CM was obtained utilizing postharvest control. Reduction of CM was highest for female moths caught in the center of our test plots.

Table 1. Mean percent reduction of spring CM flight, 1994.

	Females (all traps)	Females (center traps)	Males (all traps)	Males (center traps)
Fruit removal	44.2	75.3	30.8	53.4
Insecticide	51.6	80.3	30.3	46.8