

I. Mating Disruption /SIR

a. Biology

1. Codling moth, apple and pear

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Mating Disruption of Codling Moth - Importance of Point Sources and Evaluation of Products

Disruption with codlemone of female-baited traps was significantly higher with 400 than either 100 or 200 point sources. No significant difference was seen between 1 mg and 2 mg point sources at these dispenser densities. The effect on moth catch of point source density and release rate was not significant for traps baited with either 1 mg or 10 mg lures. The average loss of pheromone per day from Checkmate and Isomate dispensers were determined from one and two sites, respectively. The ISOMATE C+ dispenser released an average of 0.54 - 0.61 mg/day. The Checkmate had a very high release rate averaging from 2.6 - 3.0 mg/day and ran out of pheromone by 60 days. Four 10 acre plots of ISOMATE C++, Checkmate, Cidetrak, and Ecogen's black spiral were each tested in grower's orchards near Mattawa, Wapato, Brewster, and Tonasket. Orchards were mature Red Delicious trees. Orchards were monitored with both 1 mg-baited and 10 mg-baited lures. Fruit injury was assessed at mid-season and prior to harvest.