

Pome Fruits—Implementation

Codling Moth on Apple, Pear and Walnut

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CheckMate™ CM controlled release dispensers containing codlemone, the sex pheromone of the codling moth (*Cydia pomonella*), have been tested for field efficacy under an Experimental Use Permit during the 1992 and 1993 crop seasons. Full federal registration is expected for the 1994 use season. The dispensers are currently designed to release pheromone for at least 60 calendar days under both spring and summer temperature conditions. Development of a new dispenser has been directed to increasing pheromone release under all weather conditions, as well as to increasing duration of product efficacy.

Under the EUP CheckMate CM was applied from one to three times at more than 70 locations. Crops in which CheckMate was used include apples, pears and walnuts. Application rates typically varied from 100 to 160 dispensers/acre, but higher rates were occasionally tested. Supplemental treatments with other biological insecticides (in organic production systems) or with conventional insecticides were utilized in many mating disruption programs.

An experimental sprayable codlemone formulation was also evaluated in California and Washington apples and prunes. Results of these studies indicate that control of codling moth with sprayable formulations is feasible if pheromone stability and controlled release from the carrier are achieved.