

Mating Disruption/SIR

HIGH EMISSION, LOW DENSITY POINT PHEROMONE SOURCES FOR MANAGEMENT
OF CODLING MOTH AND LEAFROLLERS

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During the past two seasons I have tested the use of a sex pheromone-based management program for codling moth that utilizes the aerosol Paramount puffer spaced inside an orchard at a density of one unit per hectare (2.5 acres) and treating the orchard's edges with a full-rate of Isomate-C+ dispensers or the Isomate CM/LR dispenser. During 1999 we found no difference in moth catch per day in traps baited with either 1 mg or 10 mg lures in replicated 40-acre plots treated either with puffers or a half or full rate of Isomate-C+. During the 2000 season we evaluated puffers in seventeen 40-acre orchards for either codling moth alone or for both codling moth and obliquebanded leafroller. Puffer-treated orchards were compared with similar orchards treated with Isomate-C+ and which only used insecticides to manage leafrollers. Data will be presented that clearly show that the puffer program was as successful as Isomate-C+ for codling moth and reduced levels of leafroller-injured fruit ca. 60% compared with the insecticide-only programs. A new passive, high-emission dispenser deployment program (M.B.A.) will be presented.