Mating Disruption/SIR

EVALUATION OF NEW TECHNOLOGIES FOR CODLING MOTH AND LEAFROLLER MATING DISRUPTION

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Abstract: Aerial applications of Sentry’s fiber pheromone formulation showed promise as a control of leafrollers (obliquebanded leafroller-OBLR, pandemis leafroller-PLR) based on reduction in trap captures throughout the entire first flight. Two formulations of sprayable CM pheromone were tested and showed varying degrees of promise as a technology for managing this pest. A formulation developed by Consep provided suppression of CM captures and equivalent fruit damage at harvest in a 4-spray program when paired with Isomate-C+ applications in a low-pressure site. Additional large plot trials are required before it can be recommended for growers’ use. An attract-and-kill (A&K) formulation using the Last Call (IPM Technologies) base formulation and different concentrations of PLR or OBLR pheromone were evaluated. Attraction of moths to the A&K formulation was proportional to pheromone concentration. It appears that higher pheromone concentrations are required in the A&K formulation than currently are being used. The evaluation of five different hand-applied codling moth pheromone dispensers showed variable pheromone release behaviors when analyzed using three different methods.