TRAP SUPPRESION USING THREE HAND-APPLIED CODLING MOTH (LEPIDOPTERA: TORTRICIDAE) PHEROMONE DISPENSERS

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Three hand-applied dispensers were tested for codling moth, Cydia pomonella (L.), trap suppression ability: BioContol's Isomate-C+ and Isomate-Ctt and Consep's Checkmate. To compare these three products we measured trap suppression in side-by-side 10-acre plots by releasing sterile codling moth males and assessing trap catches in each plot. During the 2000 field season the Consep's product used was Checkmate XL1000, and during 2001 it was Checkmate CMWS. Sterile codling moths were released at a rate of 800 moths per release in each of 5 release points per plot. In the 2000 and 2001 field season we performed releases on four and six different dates, respectively. The release times were chosen to coincide with codling moth flights. There was a statistically significant greater number of moths caught in plots under Checkmate than plots under Isomate dispensers ($p<.01$) during the 4 release dates in 2000 and during 4 of the 6 release dates in 2001. We measured dispenser longevity through periodic laboratory analysis and by following weight loss for the BioControl dispensers.