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RESPONSE OF MALE LEAFROLLER MOTHS TO AN ATTRACTICIDE FORMULATION CONTAINING DIFFERENT CONCENTRATIONS OF PHEROMONE

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Response of *C. rosaceana* (Obliquebanded leafroller) and *P. pyrusana* (Pandemis leafroller) males to an attracticide formulation (specific pheromone blend + technical permethrin 6%) was evaluated using a wind tunnel studies and field trials. The attracticide formulation for each species was loaded with increasing pheromone concentrations, 0.00064% to 16%. A 50 ul droplet of the attracticide was used as an attractant source (lure) and compared to standard lures (rubber septa) in field trials and calling females in wind tunnel bioassays. Field trials compared capture of wild males in delta traps baited with different concentrations of the attracticide and a lure. The possible repellency of the attracticide formulation containing 6% permethrin was evaluated for a range of pheromone concentrations, 0.16%, 1.6%, and 16%, using captures in traps as describe above. An attracticide formulation with a blend of pheromone components for both species (in approximately the optimum ratio) was also evaluated for at concentrations of 0.16%, 1.6%, and 16%. Results showed increasing male capture to increasing pheromone concentrations in both species. No repellency was observed in males to attracticide formulation containing permethrin. Response of males to the attracticide formulation with both species pheromone was evaluated.