

STRATEGIES FOR LEAFROLLER MATING DISRUPTION

Jay Brunner, Chris Nobbs and Peter Landolt²

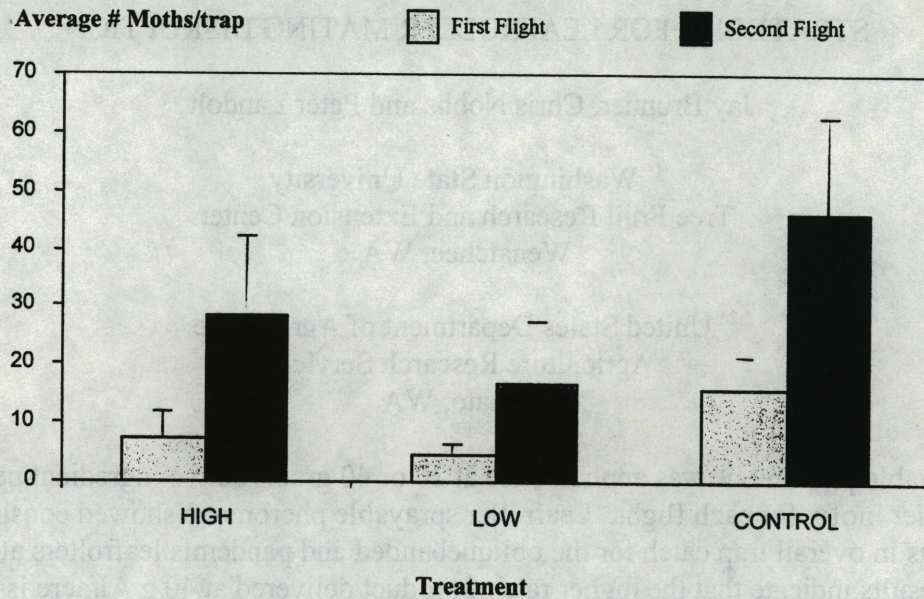
¹ Washington State University
Tree Fruit Research and Extension Center
Wenatchee, WA

² United States Department of Agriculture
Agriculture Research Service
Wapato, WA

3M sprayable pheromone was applied once at 20 or 40 grams active ingredient per acre at leafroller biofix for each flight. Leafroller sprayable pheromone showed consistent reductions in overall trap catch for the obliquebanded and pandemis leafrollers at both rates. Results indicate that the higher rate of product delivered at 40 g AI/acre is preferred over that of the lower rate of 20 g AI/acre. Although there was consistent reduction in trap catch in many of the trials, there is no evidence of a reduction in larval populations using sprayable pheromone at either rate. There didn't seem to be a reduction in mating between blocks.

Hand applied dispensers developed by Pacific Biocontrol were tested at eight different locations. Each experiment consisted of approximately 30-40 acres divided into 10 acre blocks. All of the leafroller pheromone dispensers showed consistent reductions in overall trap catch in the first flight for the obliquebanded and pandemis leafrollers at both rates. Research indicates that for first flight all dispensers reduced trap catch at approximately the same level. Although there was consistent reduction in trap catch in many of the trials, there is no evidence of a reduction in larval populations using any of the pheromone dispensers. There didn't seem to be a reduction in mating between blocks, but more research must be done to see if there is a higher number of older females attracted to the bait traps after they have been depleted of egg resources.

Allred Sprayable LR Pheromone Trap Catch (10 mg lure)



Allred Hand Applied LR Dispenser Pheromone Trap Catch (10 mg lure)

