

ISOMATE[®]-P



Peach Tree Borer Mating Disruption Technical Sheet

Below are guidelines for how to most effectively use **ISOMATE P** for the mating disruption of peach tree borer (PTB).

INSTRUCTIONS FOR USE

- Apply dispensers before PTB emergence (around mid-June).
- Apply a minimum of 250 dispensers/ha (100 dispensers per acre).
- Apply dispensers by looping or twisting the dispenser around a lateral tree branch in the middle-third of the tree canopy. Dispensers should also be placed at least 1-2 feet inside the tree canopy.
- Apply dispensers uniformly throughout the entire orchard. Treat entire blocks, not just sections or borders in order to minimize possible edge effects, i.e. mated females flying in from an adjacent untreated block. Best results are achieved in square blocks of at least 2 ha (5 acres) in area.
- Monitor for all pests and apply supplemental controls if needed.



MONITORING AND ACTION THRESHOLDS

- Pheromone traps for monitoring should be placed in the middle-third of the tree canopy at the density of one trap per hectare (2.5 acres), minimum two traps/orchard.
- PTB are very sensitive to sex pheromone. It is common to obtain 99-100% trap catch suppression in **ISOMATE P** treated orchards. Therefore, based on this experience with PTB mating disruption in the United States, cumulative captures of more than 2 moths in a trap is a sign that the PTB populations are high and a supplemental insecticide spray will likely be required.

DETERMINING PRESSURE FROM PREVIOUS YEAR'S TRAPPING RECORDS

- If PTB trap catches (in a non-pheromone treated orchard) were below the action threshold of 2 moths/trap/week in a mature block (1 moth/trap/week in young block) the previous year, PTB pressure is considered low and 100 dispensers per acre should be sufficient.
- If PTB trap counts were greater than the above action thresholds the previous year, or if the orchard had considerable amounts of injury, supplemental sprays are recommended if the 100 dispensers/acre rate is used. Alternatively, the use of a higher rate of pheromone (500 - 625 dispensers/ha (200-250 dispensers per acre)) may be necessary to clean up these high PTB populations.
- Most growers find that 100 dispensers per acre work very well, especially after using **ISOMATE P** for one year.

BENEFITS OF USING ISOMATE P

- **ISOMATE P** when used over a number of years can successfully reduce PTB population densities to very low levels. This results in decreased costs for controlling PTB.
- **ISOMATE P** can be used successfully in combination with reduced insecticides to control high populations of PTB.
- **ISOMATE P** is not toxic to bees or beneficial insects and mites.
- **ISOMATE P** has extremely low mammalian toxicity and therefore does not require a worker reentry period.
- **ISOMATE P** is not affected by rainfall, overhead irrigation, and over-tree cooling.
- **ISOMATE P** dispensers are designed to slowly release the PTB pheromone throughout the entire season. Therefore, only a single application is required.

ISOMATE P STORAGE

- Store unopened packages at temperatures below 4°C or 40°F.
- Opened packages should be re-sealed in plastic zip lock bags and then stored in a freezer until later use.