Another Example of a Collaborative Partnership

J. Sugano

HAW-FLYPM has partnered with UH CTAHR’s Area Wide Termite Suppression Program in a collaborative effort to educate Hawaii’s school children about insects and their role in our environment. The partnership between HAW-FLYPM and the Area Wide Termite Program is strategically designed to combine resources, reduce cost and enable services to be expanded to a larger radius.

Together, we will develop a DOE standard based curriculum filled with fun and dynamic hands-on activities and educational materials to meet the ever-changing needs of Hawaii’s educators and students. The Area Wide Termite Program is under the direction of Dr. Ken Grace, Dr. Julian Yates, and Mrs. Maria Aihara-Sasaki.

Good Sanitation: Waimea Growers Have It!

M. Klungness

One of the most talked-about components of the area wide program is sanitation, or the removal of fruit from the field. It is the only effective way to kill the larvae once the female fruit fly lays her several hundred eggs in fruit. This approach has been a hard sell in most parts of the State, but I have to hand it to the Kamuela growers, they have really gotten the message! I was touring a visitor through one of the Waimea farms this week, and she could not believe how clean the zucchini fields were kept. Approximately 2 acres of staggered plantings of zucchini, such that the harvest will go on in that one field for months. How is that possible without excessive buildup of fruit flies? Answer: Good sanitation and a careful program of bait spray and male annihilation.

Not all of the Waimea growers use an augmentorium to hold damaged fruit, but those who do have shown us a very clear picture of what would happen if we left all the culls in the field. One farm in Waimea has captured 7805 melon flies in the augmentoria that grower used for sanitation (Figure 1). Even in farms where the augmentorium is only used for monitoring, it is clear that many flies (2852) are captured (Figure 2).
Good Sanitation: Waimea Growers Have It!
Continued

Materials

- Plastic container with cover / lid
- Flexible & Strong Metal Wire
- Dental Cotton Wicks / Absorbent Material
- Sticky Cards or Soapy Water
- Fruit Fly Specific Male Lure
  - Cuelure: Melon Fly
  - Methyl Eugenol: Oriental Fruit Fly
  - Trimedlure: Med Fly
  - Latilure + Cade Oil: Latifron Fruit Fly

Directions

- Drill hole in the top of bottle cover. String wire through.
- Conform wire to make a hook like structure for hanging and an inner hook for male lure placement.
- Glue wire to affix wire to bottle cover.
- Make medium size holes on the side of the bottle / container. This enables the fly to enter the container.
- Treat dental cotton wicks with a fruit fly specific male lure (see above). Hang treated dental wicks on the inner wire hook. Treat and replace lures every two months.
- Insert a sticky card OR use soapy water on the bottom of trap to catch flies.
  - Flies that are attracted into the bottle by the male lure will stick onto the sticky card and die. Replace card every month.
  - Place soapy water on the bottle of plastic bottle. Flies will drown in the solution. Dispose of dead flies on the bottom of the trap monthly and replace soapy water solution.