Are Augmentoria the Only Method for Fruit Fly Sanitation? Part 2
L.M. Klungness

(Continued from HAW-FLYPM Newsletter April 2003)
Continuing the discussion of sanitation methods, the last three techniques are:

6. **Screen on the ground under fruit**: We conducted trials that demonstrate that larvae emerging from fruit piles placed over window screen will crawl through the screen to pupate. The edges of the screen are buried so when adult flies emerge from the pupae under the screen, they cannot escape. We needed to know how far from the screen edge the fruit needed to be placed to prevent ‘popping’ larvae from jumping off the screen. Figure 1 shows the results of our experiment. It suggests that you need a border of 60 cm (2 ft.) to insure that most of the larvae will pupate under the screen (Photo 1). This method is probably most applicable to orchards, and crops with wide aisle like vine tomatoes. Patches of screen placed between trees or tomato rows could serve as a collection place to toss culled fruit. Although window screen will not allow parasitoids emerging from the fruit to reenter the crop environment, we are conducting further trials with Phifertex, which would allow parasitoids to escape.

7. **Grinding fruit**: We are conducting trials using a garbage disposal to grind up the infested fruit. We are confident that this method of maceration will kill all the larvae in the fruit, and therefore could be applied in green houses and perhaps attached to mechanized harvesters for the disposal of cull fruit. The slurry produced could be added back to the soil or a compost pile for mulching.

8. **Augmentoria**: These tents (see photo) are still the most reliable way to practice sanitation, because every larva that you sequester in an augmentorium is one less fly you have to kill in the field! In addition, you can determine the type of infestation problem(s) in your field.

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‘Save Our Earth’ Day
N. Honda

HAW-FLYPM made a difference in many young lives on April 25, at the 2nd annual Earth Day festivities in Parker Ranch, Waimea. Sponsored by the Hawaii Montessori School at Kamuela, the event gave our team an opportunity to educate the crowd about our program.

Greg Boyer and Charles Lee from USDA informed fairgoers about HAW-FLYPM at the Fruit Fly Awareness Booth while Nancy Honda of UH-CES guided young students in a coloring book exercise, “Fruit Fly Alert.” The coloring book illustrates reasons why we cannot take fruits to the mainland, identifies the 4 fruit flies, the lifecycle of a fruit fly, and suggests various suppression strategies. The children were thrilled to take home their books and show-off their fruit fly pendant. Each child was able take home either a basket of strawberries from Rincon Family Farms, tomatoes from Kawamata Farms or zucchini from Honda Farms.

We’d like to thank the Waimea farmers for sharing their produce with us. They helped the students be our publicity for the day as they left our post, strutting with their hands full of goodies. Kudos also go out to the Kauai Extension Office for the fruit fly coloring books that were used as a vehicle to share fruit fly awareness to the community.

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New On Board: North Kohala
C. Hiraki

On the Big Island, 40 families of the Kohala community are awaiting positive impacts as a result of joining our league of HAW-FLYPM cooperators. Kohala-born and raised, HAW-FLYPM volunteer member Carol Gonsalves has been finding that it isn’t too difficult to find homeowners with fruit fly problems. One cooperator hopes that the program will allow him to cultivate fruits or vegetables once again, after giving up on tomatoes and melon; another is challenged with fruit flies spoiling his orchids. Gonsalves has also experienced the devastating effects of fruit fly damage firsthand growing up in Hawi, battling the pests over fruit like mango, watermelon, waiwi (strawberry guava), and mountain apple. An extension of the Waimea fruit fly effort, the Kohala monitoring traps have already been set in place and plotted in GPS format.

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