



Figure 4: FKMCD Deputy Director Andrea Leal sets up a BG-Sentinel Trap with dry ice to collect *Aedes aegypti*.

public education, as these tools have been most successful in other regions for controlling the transmission of dengue. Four additional domestic inspectors have been deployed to the Key West area, concentrating on reducing container inhabiting mosquitoes. These inspectors' sole responsibility is to find, treat and eliminate *Ae aegypti* larval habitats throughout Key West. In spite of our best efforts, however, we continue to have new cases of dengue. In an effort to eliminate *Ae aegypti*, FKMCD will be taking on a new project called the Lethal Ovitrap Study.

On June 18, 2010 the Florida Department of Agriculture and Consumer Services issued an Experimental Use Permit for the deployment of a product called the Trap-N-Kill® Mosquito Trap, a lethal ovitrap manufactured by SpringStar Inc of Woodinville, WA. The Trap-N-Kill is an ovipo-

sition cup fitted with an insecticide-treated fabric strip. Once a female comes in contact with the strip to oviposit, she, and any larvae that develop, will receive a lethal dose of the insecticide bifenthrin.

Over 5,300 lethal ovitraps have been placed throughout areas of highest concern in Key West and will be monitored for three months. By killing adult female container-inhabiting mosquitoes, we are hopeful that the



Photo by SpringStar

Figure 5: FKMCD Inspector Brian Dillon and SpringStar employees Susan Neal and Christian Banfield prepare to set out traps in Old Town.



Figure 6: FKMCD inspector Andy Diaz hands out a dengue flyer.



Figure 7: A Trap-N-Kill deployed in Key West Cemetery.



Figure 8: FKMCD PR Specialist Coleen Fitzsimmons, Dr. Kay Tomashek, CDC Epidemiology & Surveillance Section Chief and George Murphy, Florida Keys cable TV moderator, discuss mosquito larvae.

population of biting mosquitoes will be greatly reduced, thus minimizing the potential for dengue transmission. The lethal ovitraps are considered child- and pet-safe, because only a very small dose of insecticide is required. Along with the low toxicity, the product is covered with a mesh screen and secured with plastic zip ties to prevent animals and children from tampering with the trap. The ovitraps were originally associated with a bitter taste, but that was removed before deployment, as it also deterred mosquitoes.

The District distributed these traps in collaboration with SpringStar; the Navy Entomology Center of Excellence; the Armed Forces Pest Management Board; and Naval Air Station Key West volunteers. Hopefully, the results of this study will lead to yet another effective tool to control *Ae aegypti*.

For more information on FKMCD, go to <http://www.keysmosquito.org> and for details on the ovitraps visit <http://mosquitoscience.net>.



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