Mosquito Trapping Information
Fairfax County Health Department
Summer 2014

The Fairfax County Health Department has started to trap mosquitoes as part of its routine surveillance for West Nile virus. This document includes photos and descriptions of the types of traps that will be set up at 68 different locations throughout the county. The majority of these traps will be placed in parks, on school properties, or other public properties.

Please share this information with your officers, call takers, security staff, and others who may see these traps or receive inquiries about them.

- The traps are clearly marked with the words MOSQUITO TRAP and have other markings to let people know what these devices are. These also include Health Department contact information.

- Health Department staff who set out and collect the traps will be driving marked county vehicles and will be wearing county-issued identification.

- Some traps are about the size of an office trash can and are set on the ground beneath a tarp suspended in the trees; others are hung from a tree and are about 5 feet long.

- If anyone has questions or concerns about these traps, please have them contact the Disease Carrying Insects Program at 703-246-8931, TTY 711.

Thank you.

Disease Carrying Insects Program
PHONE: 703-246-8931
EMAIL: fightthebite@fairfaxcounty.gov
WEBSITE: www.fairfaxcounty.gov/fightthebite
Larvicide

Important notice:

Clarke (a contractor to Fairfax County) is treating storm drains in the county with a larvicide to control larval mosquitoes that develop in standing water. This contractor will be tossing small, water-soluble pouches into street inlets/storm drains from a white pick-up truck or a Toyota Prius with CLARKE markings on the doors. In some areas of the County, Clarke staff will do treatments by bicycle.

**VectoLex Water Soluble Pouches**

**CLARKE Mosquito Control**
CDC Miniature Light Traps

This trap hangs from tree limbs and is powered by a six-volt battery. This trap attracts mosquitoes with carbon dioxide (CO₂) that is emitted from dry ice in a cooler and a small flashlight light bulb. When the mosquitoes fly close to the light, they are sucked into a collection cup by a small electric fan. This trap is for mosquitoes that are looking for something to bite.

If you find one in the field

PLEASE DO NOT DISTURB IT
**Gravid Trap Box**

This trap looks like a tool box. It sits on top of a large plastic tub. The tub contains a mixture of water and fermented grass and straw which has a powerful organic smell that attracts gravid (full of eggs) mosquitoes. The tool box contains a collection chamber and a small fan that is powered by four "D" cell batteries (see picture below). When the mosquitoes try to land on the water to lay their eggs, they pass under the trap opening and are sucked up into the collecting chamber by a small electric fan.

*Inside the trap*

- **Collection chamber**
- **Batteries**
- **Fan**

*If you find one in the field*

**PLEASE DO NOT DISTURB IT**
**Ovitrap**

The County uses two different types of ovitraps. The first ovitrap is basically a small stadium cup with a hole cut in the side. Water inside the cup helps to keep it from tipping over. A tongue depressor covered with seed germination paper is placed inside the cup. Some mosquitoes will lay their eggs inside tree-holes or artificial containers. These ovitraps help us monitor the extent and relative abundance of those mosquitoes. The mosquitoes will lay their eggs on the rough paper. The second ovitrap type is a black five-gallon bucket with fermented water inside and an adhesive inside the top (the one-gallon paint can). The mosquitoes fly in and when they try to exit are stuck to the adhesive.

If you find one in the field

**PLEASE DO NOT DISTURB IT**
Faye-Prince Trap

The Faye-Prince trap is used to collect mosquitoes that like to bite during the day such as the Asian Tiger mosquito, *Aedes albopictus*. These traps are suspended from low branches and trees and use contrasting black and white surfaces to attract mosquitoes. A cooler with dry ice may also be used with this trap. The trap runs on a six-volt battery.

If you find one in the field

PLEASE DO NOT DISTURB IT
BG-Sentinel Trap with Tarp

The BG-Sentinel trap sits on the ground and is powered by two six-volt batteries or one 12-volt battery. A collection bag and small electric fan are located inside the trap. The tarp above the trap serves as a rain barrier.

The BG-Sentinel trap was designed specifically for anthropophilic (human-biting) mosquitoes, such as the Asian Tiger mosquito, *Aedes albopictus*. This trap uses convection currents and a non-toxic lure which mimic, respectively, the ascending air currents and scent generated by humans. A cooler with dry ice is used in addition to the lure to increase the diversity of species collected. The contrasting black and white colors also provide visual stimuli for the mosquitoes.

If you find one in the field

PLEASE DO NOT DISTURB IT
Zumba Trap with Tarp

The Zumba™ trap hangs from a cross-wire rope 2m above the ground and is powered by two six-volt batteries or one 12-volt battery. A collection bag and small electric fan are located inside the trap. The tarp above the trap serves as a rain barrier.

The Zumba™ trap was designed specifically for host-seeking mosquitoes. This trap also uses convection currents and a non-toxic lure-attractant which mimic, respectively, the ascending air currents and scent generated by humans. A cooler with dry ice is used in addition to the lure to increase the species diversity collected. Additional visual stimuli include human size, shape and contrasting coloration.

If you find one in the field

PLEASE DO NOT DISTURB IT
Mosquitito Trap with Cover

The Mosquitito trap hangs from a rope 2m above the ground and is powered by two six-volt batteries or one 12-volt battery. A collection bag and small electric fan are located inside the trap. Above the trap is a shelter of some type (umbrella or tarp) that serves as a rain barrier.

The Mosquitito trap was designed specifically for host-seeking mosquitoes. This trap also uses convection currents and a non-toxic lure-attractant which mimic, respectively, the ascending air currents and scent generated by humans. A cooler with dry ice is used in addition to the lure to increase the species diversity collected.

If you find one in the field
PLEASE DO NOT DISTURB IT
**Tick Trap 1**

Sail cloth traps are a one meter square piece of sailcloth with a cooler in the middle containing dry ice. The ticks are attracted to the CO$_2$ emitted from the cooler and stay on the sailcloth long enough to be collected.

**If you find one in the field**

**PLEASE DO NOT DISTURB IT**
Tick Trap 2

The Tick sticky trap consists of a piece of plywood with double-sided carpet tape around the inside of the board and a cooler with dry ice in the middle. The ticks are attracted to the CO$_2$ emitted from the cooler and get stuck on the double-sided carpet tape when they try to cross it.

If you find one in the field

PLEASE DO NOT DISTURB IT