# Mosquito Light Trap

The Mosquito Light Trap is used to monitor mosquito species and their numbers at a given site usually around likely breeding areas. Usually being set of an afternoon and collected the following morning.

## Operation:

The top canister is filled with dry ice.
Below the canister is an outlet tube which vents carbon dioxide (C02).
Centrally near this tube is a small light globe.
Under this section is a fan and below that a catching cylinder.
This unit operates by a rechargeable battery.

## How it works

The mosquito is attracted to the light and to the Dry Ice C02 emission which replicates human breath. Once close enough the fan assists the mosquito down into the catching chamber.

The catching chamber is removed and the mosquitos can then be identified by use of an identification key and microscope, dependant on the species and numbers, futher actions may be triggered such as misting control operations and inspection programs.

## Arbovirus (Ross River, Barmah Forest, Dengue) Surveillance - Queensland

Livingstone Shire Council incorporates sugar feeding stations (which contain FTA® cards coated in honey) which are placed inside the collection container of the Light Traps. After entering the trap, mosquitoes will feed on the honey-soaked card and expectorate ('spit') virus onto the card. Chemicals impregnated on the FTA® card kill and preserve the virus. In the laboratory, the card is tested for the presence of virus using molecular diagnostic methods.

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