

Gravid Mosquito Trap P462 -Trap

The Trap:

This trap was originally designed by P. Reiter (Mosquito News 43, 496, 1986) for the collection of *Culex* mosquitoes. It has been modified by ChemTica for more efficient collection of gravid mosquitoes in an unharmed condition. Gravid females approach a tray containing attractant-baited water tray to deposit eggs and are captured as they are pulled by a gentle air stream into a collection chamber in the upper portion of the trap. Captured mosquitoes are easily confined in the collection chamber which is easily separated from the trap.



Operation:

The ChemTica GMT operates on 4 size D cell batteries. A photo-activated switch turns on the fan at dusk. Manual shutoff is required at dawn to prevent escape of captured mosquitoes. While other gravid mosquito traps use water that contains naturally produced but un-quantified and often unidentified attractants the ChemTica GMT uses two highly attractive attractants in precise concentrations to attract gravid mosquitoes to the water below the capture vessel.

Trap Components:

The ChemTica Gravid Mosquito Trap (GMT) consists of a light-weight upper portion containing a fan that draws air through a collection chamber that opens onto a duct that adjusts so that it can be placed one inch above the water which maximizes capture. The collection chamber contains a screened tray of attractant-baited water. The upper portion of the trap consists of a light-weight box containing an exhaust duct, fan, collection duct and collection chamber. The upper portion is easily carried separately. The lower portion of the trap consists of a tray of the proper size to hold 5 liters of water.

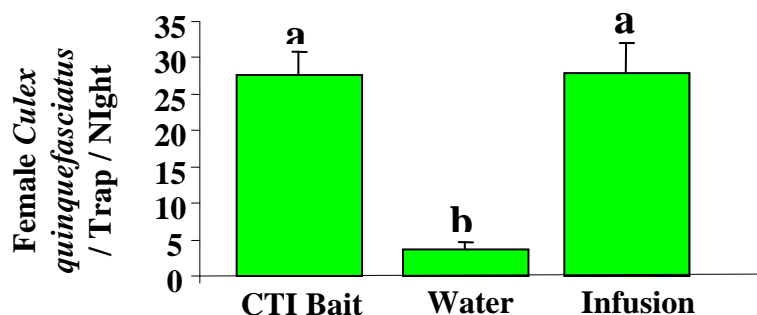
The upper chamber is a heavy-duty rain-tight plastic case with carrying handles latch and hinges. A permanently mounted horizontal exhaust duct supplies negative air pressure inside the case due to the operation of a 6 volt fan activated automatically by an electrical photo-switch at dusk. Manual turnoff is required at dawn to prevent loss of trapped mosquitoes. Power is supplied by four D cell batteries. The upper case also houses a movable vertical duct that should be positioned 1 inch above the water surface for maximum captures. The collection chamber contains a screened top and is equipped with a stockinette closure containing a binder clip. The collection chamber is easily closed and removed from the trap. The trap is shipped with two collection chambers so that

specimens collected the prior night can be held for processing without the need for transferring to another container.

The lower part consists of a black plastic tray (20.5" X 15" X 5" high). The ChemTica GMT is easily portable, compact with nesting parts and weighs less than 5 Lbs.

Baits:

The trap is baited with attractants identified by R. M. R. Barbosa, A. Furtado (Centro de Pesquisa Aggeu Magalhaes-Fiocruz, Recife-PE, Brazil) and Walter Leal (Univ. Calif, Davis), that are equivalent to grass infusion attractant.



These easily used attractants **are >7 times more attractive than water alone**. To use the Gravid Mosquito Attractant Pack add one package of attractant A and attractant B to 5 liters of water and pour the water into the bottom tray of the trap. Attractant laden water should be replaced weekly to keep the trap at its maximum capture capacity.

P462-Trap Gravid Mosquito Trap

P463-kit Gravid Mosquito Trap Collection Chamber

P465-Lure Gravid Mosquito Attractant Pack



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