

# Trap types used for mosquito surveillance in Contra Costa County

All traps are identified with decals or tags stating their purpose (mosquito surveillance) and our District's name and address



**EVS (Encephalitis virus surveillance) trap.** This trap is powered by 3 D-cell batteries in a plastic pvc 'flashlight' tube. From 20-40 of these are operated weekly for 24 hour periods in various locations where spot checks of mosquito populations are necessary. The black can contains a chunk of dry ice which gives off carbon dioxide as it evaporates, attracting mosquitoes by simulating the breath of an animal or human.



**Gravid trap.** This trap is also powered by 3 D-cell batteries. Operated weekly for 24 hour periods in various locations where spot checks of house mosquito (*Culex pipiens*) populations are necessary. The black basin contains water with fermenting hay, attracting mosquitoes that are preparing to lay eggs



**Fay trap.** This trap is powered by a 6-volt gel cell battery (on hay bale, behind trap in photo). These are operated occasionally for 24 hour periods in various locations where spot checks of tree hole mosquito populations are necessary. The black can contains a chunk of dry ice which gives off carbon dioxide as it evaporates, attracting mosquitoes by simulating the breath of an animal or human.



**New Jersey light trap.** This trap is powered by 110 volt wall current. Approximately 20 of these are operated year-round at fixed locations throughout the County (primarily in residential backyards or public agency yards). A 5 watt fluorescent light bulb serves as an attractant for night-flying mosquitoes. The sample jars (plastic jar at bottom of trap) are collected weekly by our field technicians.