


Solar-Based Mosquito Trap for Household Purposes

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ABSTRACT

A practical problem in the society has been taken as a challenging problem, and efforts are devoted to provide a solution to trap mosquitoes. Mosquitoes and other insects are attracted to a light source situated on top of the trap and are pulled through a rotating fan into a collapsible cage. The trap is lightweight and is suitable for field studies where electric power is unavailable since it operates on dry-cell batteries. Though different methods are available to reduce the mosquito population, a mosquito trap has been designed and developed in order to trap the mosquitoes in the present study. The major components of this trap are suction fan, blue light, trap, etc. The blue light is positioned such that it can attract mosquitoes in the current research. In order to enhance the capacity of mosquitoes trapping, a suction fan is installed ahead of the blue light. Based on the above principle, the developed trap can attract and trap the mosquitoes, and the results obtained from this trap are satisfactory.

KEYWORDS

Blue Light, Mosquito Trap, Suction Fan

1. INTRODUCTION

Mosquitoes are having two wings, thorax, abdomen, six legs, head conjointly occiput and antennae. So it's kinship to insects in the order of diptera, the true flies. Female mosquitoes are different to the male mosquitoes due to the life cycle stages and having parts also. A mosquito's principal food is similar to sugar source.

In generally the body structure of mosquitoes has 2.5 milligrams weight and in the life span, mosquito takes 5 millionths of blood from human being. Mosquito decided their living locations by feeling of internal sensor system which detect infrared radiation disembody by warm bodies conjointly chemical/visual sensor at provinces of 25 to 35 meters (82feet-114 feet)

Mosquitoes are most likely attracting the senior citizens and aged people, since the senior citizens are copious and can accommodate innumerable CO₂ and lactic acid. It can sense CO₂ and lactic within the limit of 100 feet (36 meters). The receptors enthralled by the mosquito are heat,

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Figure 1. Mosquito



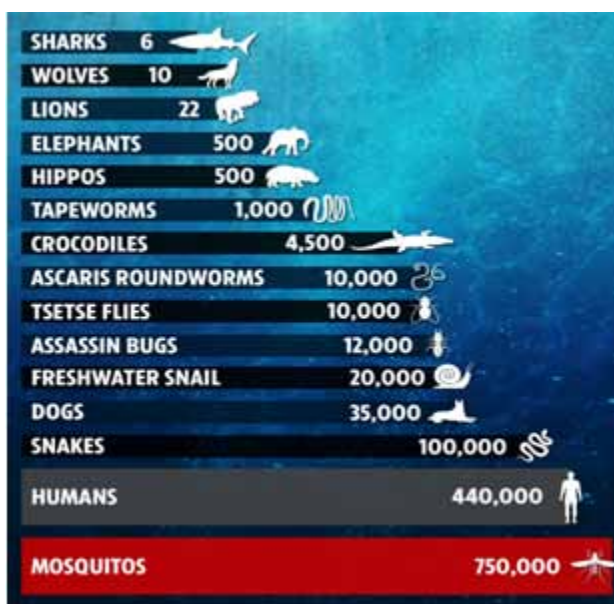
humidity, radiation. In affixing the above mentioned vibration feelers for perceiving the opposite seek (Muirhead-Thompson, 1991).

2. THEORETICAL BACKGROUND

The word of Mosquitos by “Little fly” and scientific name is Culicidae; it is one of most threatening for diseases in world due to that reason it kills above 600,000 passengers per annual, there are above 2,500 shot of mosquito, and mosquitoes are found in particular region of the world except Antarctica. And they are injurious to all living things and effected to several illnesses.

Bearing in mind their impact, your ability to haul expect mosquitoes to get more surveillance to do. The existence rhythm of mosquito can after 7 days to 30 days contingent on the species (one cycle wrap-up span of time and embryonic fix to terminating fix of mosquito footing. Feminine mosquitoes produce encompassing 300 descendants in solitary life cycle. These descendants will

Figure 2. Proof showing that the number of people dying and mosquito is the world's deadliest animal out of those (The Sun, n.d.)



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