

# Predatory efficacy of culex (*Lutzia*) fuscans on mosquito vectors of human diseases in Sri Lanka

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## Abstract

Larvae of *Culex* (*Lutzia*) *fuscans* were collected from ovitraps in a natural breeding site. Collected larvae were used to establish a self-mating colony, and larval progeny were then used to determine their predatory efficacy on larvae of 3 vector mosquito species, *Aedes aegypti*, *Anopheles subpictus*, and *Cx. tritaeniorhynchus*. Statistical analysis revealed that *Cx. fuscans* showed greater feeding efficacy for *Ae. aegypti* than for *Cx. tritaeniorhynchus* and *An. subpictus*. The natural predatory role of this species can potentially be exploited for biological control of mosquito vectors in Sri Lanka.

## Author keywords

*Culex* (*Lutzia*) *fuscans*; larvae; predatory efficacy; prey; Sri Lanka

## Indexed keywords

**EMTREE medical terms:** animal; article; biological pest control; *Culex*; disease carrier; female; food chain; male; mosquito; physiology; predation; species difference; Sri Lanka

**MeSH:** Animals; *Culex*; Culicidae; Female; Food Chain; Insect Vectors; Male; Pest Control, Biological; Predatory Behavior; Species Specificity; Sri Lanka

*Medline is the source for the MeSH terms of this document.*