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Optimal release of mosquitoes to control dengue transmission. (English. French summary)

Zbl 1447.92389

ESAIM, Proc. Surv. 67, 16-29 (2020).

Summary: In order to prevent the propagation of human diseases transmitted by mosquitoes (as dengue or zika), a solution is to release mosquitoes infected by *Wolbachia*. In this study, we model the release and the propagation over time and space of such infected mosquitoes in a population of uninfected ones. The aim of this study is to investigate the best location in space of the release to ensure invasion by the infected mosquitoes.

MSC:

92D30 Epidemiology

92C60 Medical epidemiology

Cited in 2 Documents

Keywords:

dengue transmission control; release of *Wolbachia*-infected mosquitoes

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