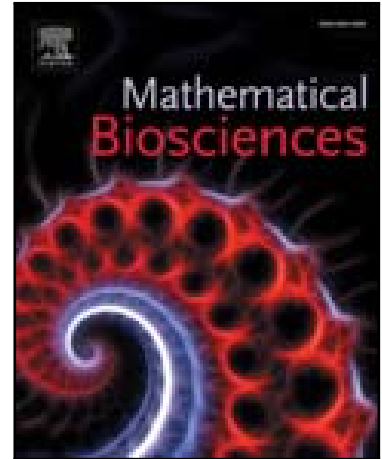


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Diffusing Wild Type and Sterile Mosquitoes in an Optimal Control Setting

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Highlights

- An optimal control approach to mosquito population reduction with diffusion.
- It is possible, through optimal choices, to eliminate the wild mosquito population.
- If larvicide is allowed, it should be used at a maximal level.
- A combination of techniques leads to a rapid elimination of the wild mosquitos.
- Numerical results suggest that a combination of both strategies is optimal.

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