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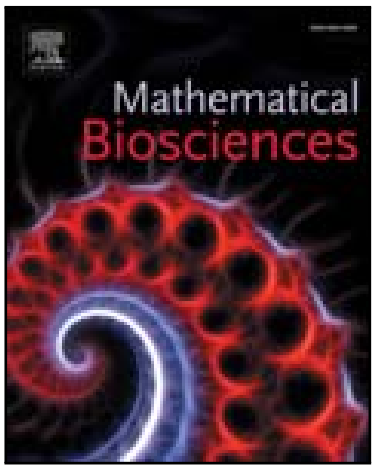

Models to assess the effects of non-identical sex ratio augmentations of Wolbachia-carrying mosquitoes on the control of dengue disease

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PII: S0025-5564(17)30592-8
DOI: 10.1016/j.mbs.2018.03.003
Reference: MBS 8034

To appear in: *Mathematical Biosciences*

Received date: 1 November 2017
Revised date: 20 February 2018
Accepted date: 2 March 2018

Please cite this article as: Xianghong Zhang, Sanyi Tang, Qiyong Liu, Robert A. Cheke, Huaiping Zhu, Models to assess the effects of non-identical sex ratio augmentations of Wolbachia-carrying mosquitoes on the control of dengue disease, *Mathematical Biosciences* (2018), doi: 10.1016/j.mbs.2018.03.003

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Highlights

- *Wolbachia*-infected mosquitoes are released to break the cycle of dengue transmission.
- Modelling mosquitoes with stage structure and non-identical sex ratio augmentation is proposed.
- Bifurcation diagrams and the basin of attractions of equilibria are obtained.
- Three possible results for mosquito augmentation in parameter space are summarized.
- The study will be helpful to design proper mosquito augmentation plans.

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