Stacks

Peer Review: An initial assessment of risk to pollinators from mosquito control in residential settings

Aaron Anderson[1], Aimee Code[1], Rosemary Malfi[1], Camille Holladay[2], & Matthew L. Forister[3]

Collaborators: Diana Obregon + 2 other reviewers

Accepted by 3 of 3 reviewers

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Conflicts of Interest
The authors declare no conflicts of interest.

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Corresponding Author
Aaron Anderson
aaron.anderson@xerces.org

[1] The Xerces Society for Invertebrate Conservation, Portland, Oregon
[2] Synergistic Pesticide Laboratory, Portland, OR
[3] Program in Ecology, Evolution and Conservation Biology, Department of Biology, University of Nevada, Reno, Nevada

Transparent Peer Review

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Reviewer Summaries

Hsun-Yi Hsieh

Initial Submission

Do you have any conflicts of interest that could bias your ability to provide an independent review?

No

What did the authors do a good job with?

An interesting study with a simple yet powerful approach to estimate the impacts of mosquito control on pollinators.

How do you think this research will contribute to the field?

The research adds weight on the study of the impacts of mosquito sprays on pollinators.

Regarding the study design and methods, what do the authors need to fix or improve upon to be fit for publication?

The sample size of the control study seems low.

Regarding the analysis and interpretation of their findings, what do the authors need to fix or improve upon to be fit for publication?

I think they do a reasonable job on the analysis and interpretation of their findings.

Is there anything else you think the authors need to fix in their article to be fit for publication?

There are minor issues to address. I would suggest to authors to revise based on the provided comments.

Do you have any concerns about the ethics of this research?

No.

Do you believe the article, in its current form, is fit for publication?

This paper requires minor revisions but does not need further peer review

Would you like to be listed as a Collaborator on the final publication?

No, I do not want to be listed as a Collaborator

Megha Khanduri

Initial Submission

Do you have any conflicts of interest that could bias your ability to provide an independent review?

No

What did the authors do a good job with?

The authors conducted a much-needed study on the risk of pesticides to pollinators. The study is timely and important, and the findings have the potential to guide conservation action, if combined with a few more studies that address the well-articulated shortcomings of this one. The manuscript reads well, and the authors chose good, well-known species to demonstrate the risks of human health-related practices on the environment. I particularly liked the involvement of the public in this study.

How do you think this research will contribute to the field?

Broadly speaking, this research will help guide sustainable practices for human healthcare with respect to vector control. Since mosquito control is practiced globally, the findings can be translated to sustainable mosquito control practices worldwide. The methods can be translated to estimate risks to other threatened and also endemic invertebrates.

Regarding the study design and methods, what do the authors need to fix or improve upon to be fit for publication?

The methods for analyte extraction and quantification need to be more detailed, so that a reader interested in repeating the study is able to do so. I have previously mentioned that the methods have the potential to be used to estimate risks for other threatened and endemic invertebrates. For the manuscript to realise this potential, it needs to be replicable.

Regarding the analysis and interpretation of their findings, what do the authors need to fix or improve upon to be fit for publication?

Is there anything else you think the authors need to fix in their article to be fit for publication?

Do you have any concerns about the ethics of this research?

Do you believe the article, in its current form, is fit for publication?

This paper requires minor revisions but does not need further peer review

Would you like to be listed as a Collaborator on the final publication?

No, I do not want to be listed as a Collaborator

Diana Obregon

Initial Submission

Do you have any conflicts of interest that could bias your ability to provide an independent review?

no

What did the authors do a good job with?

Innovative methodology, good experimental design, great discussion

How do you think this research will contribute to the field?

It brings attention to the issue of the impact of mosquito control on non-targets and offer insights on how the application type can be explore to mitigate or diminish negative effects

Regarding the study design and methods, what do the authors need to fix or improve upon to be fit for publication?

I think the study desing and methods are clearly described, and appropriate to the question.

Regarding the analysis and interpretation of their findings, what do the authors need to fix or improve upon to be fit for publication?

Authors need to make a deeper search of previous studies on the topic. They present the manuscript as the first one and although their approach is innovative, they are not the first on exploring that question.

Is there anything else you think the authors need to fix in their article to be fit for publication?

they have a repeated section in their discussion.

Do you have any concerns about the ethics of this research?

No

Do you believe the article, in its current form, is fit for publication?

This paper requires minor revisions but does not need further peer review

Would you like to be listed as a Collaborator on the final publication?

Yes, please list me as a Collaborator