Manuscript title: Developing an Effective Push-Pull System for Managing Outbreaks of the Invasive Pest *Bactrocera dorsalis* in *Nephelium lappaceum* Orchards

Dear Authors,

The push-pull strategy has shown promise for controlling economic pests, but the push-pull components were generally nontoxic. However, the use of pesticides as a component of this pest management strategy in the present study is considered a positive point because, unlike most push-pull strategies, according to the authors' data, it is also effective during pest outbreaks. However, it would have been better if low concentrations of abamectin had been tested to fully preserve these push-pull strategies' eco-friendliness.

What worries me is conducting the study within a year. However, to confirm the results of such studies, it is better to collect data for at least 2-3 years, such as the two studies by Khan et al. (2008) and Verghese et al. (2021), which the authors themselves have cited.

I am writing the specific comments below.

Overall, in my opinion, after the authors revised the manuscript based on the comments below, this manuscript deserves to be published in the Journal of Agronomy.

Good luck with your subsequent research

Specific comments:

Line 3 or 12: Mention the order and family of the pest in the title or the introduction after the scientific name.

Line 17: Based on oral, contact and inhalation LD50, abamectin is classified as a highly toxic pesticide for mice and rats.

Lines 19 and 20: Remove the comma.

Lines 75-79: Contrary to this reference, however, findings of Qiu et al. (2022)* indicate health risks to human and soil ecosystems with widespread use of abamectin. It is better to be a little less sure about the low environmental toxicity of abamectin.

* Qiu, Danyan, et al. "Negative effects of abamectin on soil microbial communities in the short term." *Frontiers in Microbiology* 13 (2022): 1053153.

Lines 71-72 and 79-85: Write the goal in one place. At present, the authors have mentioned the goal in general in lines 71-72 and its details in lines 79-85. Integrating these lines, in addition to improving the introduction, also prevents redundancy.

Line 120: For the reader not to be misled in understanding the study method, in my opinion, it is better to remove paragraph 2-2 and move the explanations given in this paragraph (before the test) to the beginning of the first experiment paragraph (*2.3. Experiment 1: Traditional Push-Pull System vs. Traditional Push-Pull System with a Low Toxicity Pesticide*). Of course, with the explanation that these actions were performed before experiments 2 to 4. Or else, change the title of paragraph 2-2 to " works taken before all experiments".

Line 124: In the mentioned article (Fig. 1), Biasazin et al. (2021) used the McPhail trap for trapping, which does not match the white bottles mentioned in your article. Please explain the trap details.

Line 135: For these values, write the unit.

Lines 158-161 and 168: This type of concentration description can be improved in the case of allicin and abamectin. Instead, express the concentration in ppm units based on the active ingredient and tell how much of this concentration you applied per hectare.

*What concentration of each pesticide is recommended by the manufacturer to control fruit flies, and what is the relationship between the concentration used in this study and the recommended concentration?

Line 159: mention the name of the manufacturer or company of all the chemicals used in your study, such as allicin, abamectin, β-cypermethrin, methyl eugenol, etc.

Line 188: What height of trees were 20 fruits collected from?

Line 193: Before experimenting 2, it would have been better to make statistical comparisons for experiment 1. Just for the most effective treatment of experiment 1, experiment 2 was done manually and by drone only.

Line 288: In Figures 2 to 5, write labels for the x and y axes. Draw the graph so that 3 days and 7 days are displayed on the x-axis, and the rate of population decline is written on the y-axis.

*In addition, in this chart, it is better to name the treatments according to experiment 1, i.e. allicin, allicin + abamectin, bromophos + β-cypermethrin and...

*Add the name of the statistical test to the caption of Figures 5-2.

Line 397: Put a period at the end of the sentence.