

### Review Form 3

Journal Name:	<b>Journal of Experimental Agriculture International</b>
Manuscript Number:	<b>Ms_JEAI_122393</b>
Title of the Manuscript:	<b>"Optimization of Operational Parameters for Agricultural Drone Spraying in Maize Crops"</b>
Type of the Article	<b>this article is categorized as technical study:</b>

#### General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

<https://r1.reviewerhub.org/general-editorial-policy/>

#### Important Policies Regarding Peer Review

Peer review Comments Approval Policy: <https://r1.reviewerhub.org/peer-review-comments-approval-policy/>

Benefits for Reviewers: <https://r1.reviewerhub.org/benefits-for-reviewers>

#### PART 1: Review Comments

<b>Compulsory</b> REVISION comments	<b>Reviewer's comment</b>	<b>Author's Feedback</b> (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b>	This manuscript holds significant importance for the scientific community as it addresses the growing need for precision agriculture, particularly in optimizing drone spraying techniques for maize crops. By refining operational parameters, the study contributes to improving the efficiency and effectiveness of pesticide and fertilizer application, leading to enhanced crop yields and reduced environmental impact. The findings can serve as a valuable reference for researchers and practitioners aiming to advance sustainable agricultural practices, offering practical insights into the integration of cutting-edge technology in crop management.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The title alone is more than enough for beginner scientific researchers. Even if the authors are able to make modifications, I suggest that... 1. <b>"Optimization of Drone Spraying Parameters for Enhanced Precision in Maize Crop Management"</b>  This version emphasizes the application of the research to crop management. 2. <b>"Optimizing Operational Parameters for Precision Agriculture: Drone Spraying in Maize Cultivation"</b>  This version places the research within the broader context of precision agriculture. <b>The title "Optimization of Operational Parameters for Agricultural Drone Spraying in Maize Crops" is clear and concise, but here are a few suggestions for improvement:</b>  <b>Specificity: Consider specifying which operational parameters you are optimizing. For instance, are you focusing on altitude, speed, droplet size, or some other factors? Adding specifics can make the title more informative.</b>	

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	<p><b>Scope Clarification:</b> It might be useful to clarify whether the study is field-specific (e.g., maize crops in a particular region or under specific conditions) to make the research context more apparent.</p> <p><b>Action-Oriented:</b> You could start the title with a more action-oriented word to highlight the process or approach being used. For example, "Optimizing Operational Parameters for Agricultural Drone Spraying in Maize Crops."</p> <p><b>Technology Mention:</b> If your work involves a specific technology or method (e.g., machine learning, statistical analysis), mentioning it could make the title more impactful.</p>	
<p><b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b></p>	<p>The abstract is well-written and comprehensive, but by trimming some of the specific details and sharpening the focus on the broader implications of the findings, it can be made even more effective. My comments in this sections..</p> <ul style="list-style-type: none"> <li>● <b>Clarify the Purpose:</b> The abstract begins by stating the research aim, but it could benefit from a slightly clearer statement of the overall objective. For instance: "This research aimed to optimize and standardize the operational parameters of an agricultural drone sprayer for maize crops, focusing on..."</li> <li>● Remove Redundant Details:</li> <li>● Highlight Key Findings and Implications:</li> <li>● Consistency in Data Presentation:</li> </ul>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p>Normally, when writing scientific papers, we should follow general guidelines</p> <ol style="list-style-type: none"> <li>1. <b>Introduction</b></li> <li>2. Literature Review</li> <li>3. Materials and Methods</li> <li>4. <b>Results</b></li> <li>5. Discussion</li> <li>6. <b>Conclusion</b></li> <li>7. <b>References</b></li> <li>8. <b>Appendices</b> (if applicable)</li> </ol> <p>Based on these general guidelines, the author(s) include the basic and relevant sections in scientific article writing.</p>	
<p><b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b></p>	<p>The manuscript is scientifically robust and technically sound as it systematically optimizes key drone spraying parameters—such as height, discharge rate, and forward speed—using a range of precise metrics. The empirical validation through field experiments at different crop stages ensures that the findings are both reliable and applicable. By providing actionable insights and demonstrating significant improvements in efficiency, the study contributes valuable knowledge to the field of precision agriculture.</p>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b> :</p>	<p>The references included in your manuscript are generally sufficient and relevant, covering various aspects of UAV sprayer design, operational parameters, and application efficiency. They span a range of topics related to drone technology in agriculture, including system development, performance evaluation, and practical applications.</p>	

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<p>Minor REVISION comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>I really appreciate the author(s)! They conducted very thorough and up-to-date technical studies. Based on this, here are the overall recommendations as “<b>Minor Revision</b>”:</p> <p><b>Incorporate Additional Recent References:</b> Add a few more recent studies or reviews to reflect the latest developments in UAV technology and precision agriculture.</p> <p><b>Refine Abstract and Title:</b> Make minor adjustments to ensure clarity and alignment with the core findings of the research.</p> <p><b>Update Context:</b> Ensure that the manuscript fully reflects current advancements and trends in the field.</p>	
<p>Optional/General comments</p>	<p>These are my general comments:</p> <p>Improve Clarity and Precision: Ensure that the writing is clear and precise. Avoid ambiguous language and make sure that each section of the paper is easily understandable.</p> <p>Enhance Structure and Organization: Organize the paper logically, with a clear flow from introduction to conclusion. Use headings and subheadings to guide the reader through your work.</p> <p>Update Literature Review: Incorporate the most recent and relevant literature to provide a comprehensive background and show how your work fits into the current research landscape.</p> <p>Strengthen Methodology Section: Clearly describe the methods used in your research, including any statistical analyses or experimental procedures. Ensure that the methods are reproducible.</p> <p>Clarify Results and Discussion: Present your results clearly and discuss them in the context of existing research. Highlight the significance of your findings and their implications.</p> <p>Check for Consistency: Ensure consistency in terminology, formatting, and referencing throughout the paper. This includes checking for uniformity in units, abbreviations, and style.</p> <p>Review Figures and Tables: Make sure that all figures and tables are clear, well-labeled, and referenced appropriately in the text. They should effectively support the narrative and findings of the paper.</p>	
	<p>If the focus is more on the practical application and implementation of these optimized parameters, describing the technical aspects in detail, it could be a technical study.</p>	

**PART 2:**

	Reviewer’s comment	Author’s comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p><b>Are there ethical issues in this manuscript?</b></p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i> No.</p>	

**Reviewer Details:**

<p>Name:</p>	<p><b>Asmamaw Chanie Yehun</b></p>
<p>Department, University &amp; Country</p>	<p><b>Germany</b></p>