

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_116777
Title of the Manuscript:	Seasonal incidence of major insect pests of chilli and their correlation with weather parameters
Type of the Article	Original Research Article

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PART 1: Review Comments

	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>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>Importance for the Scientific Community: The manuscript addresses a significant area of agricultural research by exploring the relationship between weather parameters and the incidence of insect pests on chilli crops. This is crucial for developing effective pest management strategies that can lead to sustainable agriculture practices, particularly in regions similar to Assam. The findings are relevant and could potentially benefit researchers, farmers, and policymakers interested in crop protection and climate resilience.</p> <p>Title Suitability: The title of the article is suitable as it clearly reflects the manuscript's focus on both the seasonal incidence of insect pests and their relationship with weather parameters. It effectively communicates the scope and geographic specificity of the study, making it clear to potential readers what to expect from the content.</p> <p>Abstract Comprehensiveness: The abstract provides a concise summary of the study's aims, methods, key findings, and implications. However, it could enhance readability and impact by briefly mentioning the specific statistical results and their agricultural implications. Ensuring that all significant results and their relevance to chilli cultivation are highlighted will improve its effectiveness.</p> <p>Subsections and Structure: The manuscript is well-structured with clear subsections that logically progress from the introduction, methodology, through to results, and conclusions. This layout facilitates easy navigation and comprehension of the study. Each section is appropriate in length and detail, contributing to a coherent presentation of the research.</p> <p>Scientific Correctness: The manuscript appears to be scientifically correct with methods and analyses appropriately conducted. The statistical correlation and regression analysis are suitable for the type of data and research questions posed. However, ensuring a thorough peer-review process will help confirm the accuracy of the statistical methods and the interpretations made.</p> <p>References: The references are relevant and recent enough to contextualize the research within current scientific discussions. However, adding more references that discuss similar studies in different geographic locations or under different climatic conditions could provide a broader context and enhance the manuscript's relevance internationally.</p> <p>(1) Data Presentation: Enhance the clarity of tables and figures to ensure they comprehensively represent the data discussed. Consider improving the labeling and legends for better readability and understanding. Adding visual aids like graphs to illustrate the correlation coefficients and their significance might provide a clearer visual summary of the results, making the data more accessible to readers.</p> <p>(2) Methodological Details: Provide more details about the experimental setup, such as the criteria for selecting the specific chilli variety, any control measures used, and the specifics of the agricultural practices followed. This will help in replicating the study under similar or different conditions. Clarify if any steps were taken to ensure the accuracy of weather data collection and the reliability of the sources used.</p> <p>(3) Discussion of Implications: Expand the discussion section to explore the broader implications of your findings. Discuss how this research might influence future agricultural practices, pest management strategies, or policy-making. Consider discussing potential limitations of the study and how they might affect the interpretation of the results. For instance, the local conditions of Assam might not be entirely generalizable to other regions without similar climatic and ecological profiles.</p>	

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	<p>(4) Statistical Analysis: While the correlation coefficients are helpful, discussing the possibility of employing more complex statistical models or machine learning techniques could be suggested to predict pest incidence based on weather parameters more accurately. Address any potential multicollinearity between weather parameters and how it might affect the interpretation of the results.</p> <p>(5) Literature Review: A more extensive review of existing literature could be beneficial, especially recent studies that have used similar methodologies or have studied the impact of climate change on pest dynamics in other crops. This can help situate the study within the broader context of current research trends.</p> <p>(6) Conclusion and Future Work: Strengthen the conclusion by summarizing not only the findings but also suggesting specific practical applications of the research. Mention potential areas for future research, such as longitudinal studies over multiple growing seasons or comparative studies across different chilli varieties or regions.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Language/English Quality: The language used in the manuscript is generally clear and professional, suitable for scholarly communication. Some minor grammatical corrections and adjustments in sentence structure might be necessary to enhance clarity and readability.</p>	
<p>Optional/General comments</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>Are there ethical issues in this manuscript?</p>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Andi Subhan Amir
Department, University & Country	Hasanuddin University, Indonesia