

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_127965
Title of the Manuscript:	Growth and yield performance of strawberry cultivars under different growing conditions
Type of the Article	Original Research Article

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:

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PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	This manuscript holds significant importance for the scientific community as it provides valuable insights into the growth and yield performance of strawberry cultivars under varied growing conditions. By evaluating critical parameters like plant height, leaf area, flowering, and yield under open field, shade net, and polyhouse systems, the study highlights the adaptability and productivity potential of different cultivars in a sub-tropical region like Dhule, Maharashtra. Such research is crucial for optimizing strawberry cultivation practices, enabling growers to select appropriate cultivars and growing systems for enhanced yield and profitability.	
Is the title of the article suitable? (If not please suggest an alternative title)	The current title, " Growth and Yield Performance of Strawberry Cultivars Under Different Growing Conditions, " is suitable as it reflects the core focus of the study. However, it could be slightly refined to make it more specific and engaging. Here are a few alternative suggestions: <ol style="list-style-type: none"> 1. "Comparative Growth and Yield Analysis of Strawberry Cultivars in Varied Growing Conditions" 2. "Performance Evaluation of Strawberry Cultivars Under Open Field, Shade Net, and Polyhouse Systems" 3. "Impact of Growing Conditions on the Growth and Yield of Strawberry Cultivars in Sub-Tropical India" 4. "Optimizing Strawberry Cultivation: Growth and Yield Assessment Across Different Environments" 	

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<p>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.</p>	<p>Suggested Revised Abstract: "A study was conducted at the Horticulture Nursery, College of Agriculture, Dhule, during 2023–24 to evaluate the growth and yield performance of three strawberry cultivars (Florida Beauty, Winter Dawn, and Sweet Sensation) under three growing conditions: open field, shade net, and polyhouse. The factorial randomized block design experiment recorded growth and yield parameters such as plant height, leaf area, flowering time, and fruit yield. The Sweet Sensation cultivar under open field conditions exhibited superior performance with the highest plant height (25.63 cm), leaf area (134.33 cm²), and yield per hectare (11 MT/ha). These findings highlight the adaptability and potential of specific cultivar-environment combinations for optimizing strawberry production in sub-tropical regions."</p>	
<p>Is the manuscript scientifically, correct? Please write here.</p>	<p>The manuscript appears to be scientifically sound, but a thorough review of the entire content is necessary to ensure accuracy and clarity. Based on the provided sections (abstract, introduction, and methods), here is an assessment:</p> <p>Strengths: Well-Defined Objectives: The study has a clear aim—evaluating the performance of strawberry cultivars under different growing conditions—which is relevant and practical for horticultural research. Appropriate Methodology: The factorial randomized block design is suitable for evaluating the effects of multiple factors (cultivars and growing conditions) on growth and yield. Comprehensive Data Collection: The manuscript includes a wide range of parameters, such as growth, yield, and flowering characteristics, providing a holistic view of performance. Potential Issues and Suggestions: Statistical Analysis: Ensure that the statistical methods are robust and appropriate for the data type. The manuscript mentions following standard procedures, but it should explicitly state the software or methods (e.g., ANOVA, post-hoc tests). Include details on how significant differences were determined (e.g., p-value thresholds). Critical Discussion of Results: The manuscript lacks a discussion section to interpret the findings in the context of existing literature. This is crucial for scientific manuscripts. For example, how do the results compare with other studies on strawberry cultivation in sub-tropical regions? Climatic and Soil Data: While climatic conditions are briefly described, specific data on soil type, fertility, and pH are missing. These factors can significantly influence strawberry growth and should be included or at least acknowledged as limitations. Numerical Data Overload in Abstract: Listing too many numerical values in the abstract might reduce readability. Focus on the most significant findings to engage the audience. Clarity in Experimental Layout: While the experimental setup is well-described, minor details like the type of polyhouse (e.g., naturally ventilated or controlled environment) and specific shade net characteristics (e.g., percentage shading) should be provided. Species Description: Clarify the scientific nomenclature and the commercial relevance of the cultivars used. Are these cultivars commonly grown in India or specific to the region studied? Relevance to Current Practices: Discuss how the findings can be practically applied, especially in sub-tropical regions with similar climatic conditions.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>The references listed in the manuscript are relevant to the study, focusing on strawberry cultivation under various conditions and specific cultivar performance. However, there are a few points to consider for improvement:</p> <p>Assessment of References: Relevance: The references cover regional studies (e.g., Karnataka, Mahabaleshwar, Assam, Punjab), which align well with the study's focus on strawberry cultivars in different climatic conditions. Standard references on statistical methods (Panse and Sukhatme, 1995) and doctoral dissertations (Kurian, 2015) are included, which are appropriate for methodology and background. Recency:</p>	

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	<p>While some references are recent (e.g., Bai et al., 2023; Khound et al., 2021), others are relatively old (e.g., Sahu and Chandel, 2014; Panse and Sukhatme, 1995). The inclusion of more recent studies (post-2020) on strawberry cultivation and varietal performance could strengthen the manuscript. Breadth of Coverage:</p> <p>The references focus mainly on Indian studies, which is suitable for the regional context but limits the global perspective. Including international research on strawberry cultivars or growing conditions might add depth. Suggestions for Additional References: To enhance the manuscript, consider including recent and relevant studies such as:</p> <p>On Strawberry Cultivation:</p> <p>Yoon, H. I., et al. (2021). "Advances in controlled-environment agriculture for strawberry cultivation: Implications for growth, yield, and quality." Journal of Horticultural Science & Biotechnology. Dimkpa, C. O., et al. (2020). "Nano-enabled strategies for enhancing nutrient use efficiency in horticultural crops." Horticulture Research. On Growing Conditions:</p> <p>He, Z., et al. (2021). "The influence of light spectrum and growing systems on strawberry production in subtropical regions." Agriculture. Statistical Approaches in Horticulture:</p> <p>Ferreira, L. C., et al. (2022). "Modern statistical tools in evaluating multi-factorial agricultural experiments." Agronomy Journal. Global Trends in Strawberry Cultivation:</p> <p>Figueira, A. R., et al. (2023). "Advances in strawberry genetics and breeding for diverse climatic conditions." BMC Plant Biology. Recommendations: Include more recent references (past 5 years) to ensure the manuscript reflects the latest advancements. Broaden the geographical scope to include international research, as strawberries are globally cultivated, and cross-regional comparisons can provide valuable insights. Ensure proper citation format consistency throughout the reference list.</p>	
<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language of the article is generally clear and concise, making it suitable for scholarly communication. However, some areas could be improved for better readability, precision, and flow.</p>	
<p>Optional/General comments</p>	<p>The study provides valuable insights into the performance of strawberry cultivars under different growing conditions, which could be useful for optimizing cultivation practices in diverse environments.</p> <p>The statistical analysis is appropriately applied, but a more detailed discussion on the implications of the results in the context of current literature would strengthen the manuscript further.</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>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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