

Review Form 3

Journal Name:	Asian Journal of Soil Science and Plant Nutrition
Manuscript Number:	Ms_AJSSPN_130503
Title of the Manuscript:	Stability and Sustainability Indices and Mitigation Strategies for Water Conservation in relative to Fruit Crops
Type of the Article	Review Article

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 is highly relevant to the scientific community as it addresses the pressing issue of water scarcity and its impact on sustainable agriculture, particularly in fruit crop cultivation. It provides a comprehensive analysis of stability and sustainability indices, offering a novel approach to evaluate and enhance water management practices. By integrating ecological, social, and economic aspects, the study presents actionable strategies to improve water use efficiency, ensure ecosystem health, and support the livelihoods of farming communities. Furthermore, it highlights innovative solutions such as precision irrigation and agroecological techniques, contributing valuable insights for mitigating climate change impacts and fostering resilience in agricultural systems.	We have added more details according to the recommendations.
Is the title of the article suitable? (If not please suggest an alternative title)	Alternative title be: "Stability and Sustainability Indices for Water Conservation in Fruit Crop Cultivation: Strategies for Mitigation and Resource Optimization"	The title has been changed to “Stability and Sustainability Indices for Water Conservation in Fruit Crop Cultivation: Strategies for Mitigation and Resource Optimization” as per the reviewer’s suggestion.

Review Form 3

<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>The abstract is comprehensive in covering the major themes of the article, including water scarcity, its impact on food security, and the role of stability and sustainability indices in water conservation for fruit crop cultivation. However, there are areas where it can be improved for clarity and completeness. Here are some suggestions:</p> <p>Additions:</p> <ol style="list-style-type: none">Scope of the Study: Clearly mention that the study reviews existing water management practices and evaluates their effectiveness for fruit crop cultivation.Significance of Stability and Sustainability Indices: Briefly explain how these indices specifically contribute to water conservation and resource optimization in agriculture.Highlight Innovative Techniques: Include a line about specific innovative methods like precision irrigation or agroecological practices that are discussed in the study. <p>Deletions or Modifications:</p> <ol style="list-style-type: none">Repetition of Concepts: Avoid repeating ideas like the importance of conservation and sustainability in multiple ways; consolidate these points for conciseness.Simplify Technical Terms: Where possible, simplify complex phrases like "focused conservation efforts with information, effective use of resources" for broader readability. <p>Suggested Revised Abstract:</p> <p>"Water scarcity, a critical global challenge, describes the insufficiency of freshwater resources to meet environmental and human needs, posing risks to food security and agricultural sustainability. Fruit crops, being water-intensive, require innovative water management practices to ensure their viability amidst changing climatic conditions. This review explores the role of stability and sustainability indices in evaluating and improving water conservation efforts, considering ecological, social, and economic aspects. Strategies such as precision irrigation, agroecological techniques, and community participation are highlighted as key solutions to optimize water use, enhance soil health, and mitigate climate risks. By integrating these indices and practices, this study provides a framework for achieving long-term water security and sustainable fruit crop production, balancing environmental and agricultural demands."</p> <p>This revision enhances clarity, avoids redundancy, and ensures the abstract succinctly conveys the study's significance.</p>	<p>The abstract has been changed with relevant additions of scope and significance of the paper.</p>
<p>Is the manuscript scientifically, correct? Please write here.</p>	<p>The manuscript appears to be scientifically sound, as it addresses the critical issue of water scarcity and its impact on fruit crop cultivation, linking it to sustainability and stability indices. However, to ensure scientific accuracy, the following aspects should be verified or improved:</p> <p>Strengths:</p> <ol style="list-style-type: none">Relevance: The topic is highly relevant, considering the global challenges of water scarcity and climate change.Indices Use: The use of stability and sustainability indices to evaluate water conservation practices is an effective approach for analyzing long-term viability.Technological Integration: The manuscript includes valid mitigation strategies, such as precision irrigation and agroecological practices, which are widely recognized in scientific literature. <p>Points to Verify or Clarify:</p> <ol style="list-style-type: none">Citations: Ensure that all claims, especially those related to statistical data or technological impacts, are properly supported with recent and credible references.Terminology: Terms like "stability indices" and "sustainability indices" should be explicitly defined for clarity, with examples provided to illustrate their practical application.Specificity of Practices: While techniques like precision irrigation and agroforestry are mentioned, more detailed examples or case studies could strengthen the scientific foundation.Water Quality Metrics: The mention of water quality evaluation through sustainability indices could benefit from elaboration on specific parameters (e.g., pH, salinity, or nutrient levels).Climate Risks: The manuscript discusses climate change but could benefit from more specific references to regional climate challenges impacting fruit crop water needs. <p>Recommendation:</p> <p>The manuscript is likely correct but should undergo peer review to confirm the accuracy of the claims and the appropriateness of the cited references. Minor revisions to improve clarity and specificity will further enhance its scientific credibility.</p>	<p>We have verified that all the claims are properly supported with relevant references. Definition of all the terms have been explicitly provided along with explanation.</p>

[Review Form 3](#)

Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	References appear comprehensive, adding a few more up-to-date and specialized resources could enhance the depth and relevance of the information, particularly in addressing new challenges and technologies in the field of water management for agriculture.	The references has been updated to more relevant and recent ones .
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Review Form 3

<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The overall language quality of the article is generally suitable for scholarly communication. However, there are a few areas where improvements can be made to enhance clarity, flow, and precision. Here are some suggestions:</p> <ol style="list-style-type: none">1. Clarity and Conciseness:<ul style="list-style-type: none">o Some sentences can be simplified or restructured for better readability. For example, longer sentences may be broken down into smaller, more digestible ones.o Avoid redundancy. For instance, phrases like "advanced monitoring and management systems for improving sustainability" could be trimmed to "advanced monitoring systems for sustainability."2. Technical Terminology:<ul style="list-style-type: none">o The article uses appropriate technical terms but should ensure consistent usage throughout. For example, terms like "water use efficiency" or "climate change adaptation" should be defined or referenced clearly in context.3. Transitions and Flow:<ul style="list-style-type: none">o The logical flow between sections and ideas could be improved by adding transition sentences or phrases that link topics more smoothly.4. Grammar and Punctuation:<ul style="list-style-type: none">o There are a few instances of awkward phrasing or minor grammatical issues (e.g., misplaced commas or conjunctions), which could be revised to make the writing more polished.5. Acronyms and Abbreviations:<ul style="list-style-type: none">o Ensure that acronyms and abbreviations are spelled out fully when first introduced (e.g., "GHG" for greenhouse gases) and used consistently thereafter.6. References:<ul style="list-style-type: none">o The references are extensive and relevant, but ensure the formatting aligns with the target journal or conference requirements.	<p>We have revised the manuscript to improve clarity and consistency and also for better readability .</p> <p>Technical terminology has been clearly defined</p> <p>It is also ensured that acronyms and abbreviations are spelled out fully when first introduced and used consistently thereafter eg WUE for water use efficiency.</p>
<p><u>Optional/General</u> comments</p>	<p>Some general comments regarding the quality and suitability of the article for scholarly communication:</p> <ol style="list-style-type: none">1. Structure and Organization:<ul style="list-style-type: none">o The article seems well-organized, with clear sections addressing different aspects of the topic. The logical flow from introduction to conclusion helps readers navigate through the material easily.o Ensure that each section starts with a brief introductory sentence that sets the stage for the content to follow. This will strengthen the overall structure.2. Depth of Content:<ul style="list-style-type: none">o The content appears to be well-researched, with a focus on critical topics relevant to the field. It reflects an in-depth understanding of the subject matter and integrates the latest trends and technologies in precision agriculture, sustainability, and environmental control systems.o The article could benefit from more explicit connections between theory and practical applications, particularly with case studies or examples that demonstrate how these concepts are applied in real-world settings.3. Language and Tone:<ul style="list-style-type: none">o The language is formal and academic, which is appropriate for scholarly communication. However, there are occasional instances of complex sentence structures that might detract from the overall clarity.o Aim for precision and avoid overly complex phrasing or jargon unless it is essential to the topic and is well-defined for the target audience.o The tone is consistent, and the content remains neutral and objective, which is important in scholarly writing.4. Consistency and Terminology:<ul style="list-style-type: none">o The article uses specialized terminology relevant to the topic, which is essential for a scholarly audience. However, it's important to ensure consistency in how terms are used and defined. For instance, terms like "precision agriculture" and "environmental control systems" should be consistently applied with clear definitions.o When referencing key technologies or concepts, ensure they are properly cited and supported by evidence from credible sources.5. References and Citations:	

Review Form 3

	<div><ul style="list-style-type: none">○ The references used appear appropriate, but ensure all citations are formatted according to the required style guide (APA, MLA, Chicago, etc.). Double-check that all referenced studies or sources are current and directly relevant to the points made in the article.○ If possible, include a discussion on gaps in the current research or areas that require further exploration. This would provide a sense of depth and perspective to the work.</div> <div>6. Critical Analysis:<ul style="list-style-type: none">○ While the article presents valuable information, a stronger critical analysis of existing technologies, methods, or challenges in the field could provide more depth. For instance, comparing different systems or approaches, discussing limitations, and addressing potential barriers to implementation would further strengthen the scholarly nature of the piece.</div> <div>7. Conclusion:<ul style="list-style-type: none">○ The conclusion should briefly summarize the key points discussed and suggest future directions for research or practical applications in the field. It may also be helpful to provide recommendations based on the findings presented in the article.</div> <div>Overall, the article demonstrates strong scholarly potential but could benefit from refining some sections to improve readability, flow, and critical engagement with the subject matter.</div>	
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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	No