

Review Form 1.7

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_116333
Title of the Manuscript:	Efficient Smart Water Management Techniques to Enhance Crop Productivity for Maize
Type of the Article	The article provided is a research paper or a scientific study.

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>1. The manuscript explores IoT-based smart water management for crop productivity, comparing irrigation methods and discussing smart systems and IoT technology in agriculture. It emphasizes effective water management for food demands and environmental sustainability.</p> <p>2. The title "Efficient Smart Water Management Techniques to Enhance Crop Productivity for Maize" is appropriate and accurately represents the content of the manuscript. It effectively communicates the study's focus on utilizing smart water management techniques to enhance crop productivity, particularly for maize cultivation.</p> <p>3. The article's abstract is concise and comprehensive, summarizing the key points covered in the manuscript. It highlights the importance of maize as a high-yielding crop and the issue of water scarcity in agriculture. The abstract discusses smart irrigation systems based on IoT technology to maximize crop production and water management efficiency. The field experiment conducted to compare different irrigation treatments and their impact on growth, yield, and water savings is also mentioned. Overall, the abstract effectively outlines the main objectives, methods, and findings of the study.</p> <p>4. It has clear subsections: Abstract, Introduction, Methodology, Results and Discussion, and Conclusion. Each section is dedicated to a specific aspect of the study, providing a logical flow of information from the background to the conclusions.</p> <p>5. The manuscript compares irrigation methods for maize using IoT. Results show the impact of irrigation on crop growth, yield, and water efficiency. It discusses precision agriculture, smart irrigation, and IoT in water management. The study aligns with agricultural research principles.</p> <p>6. The manuscript has references covering agriculture, smart irrigation, IoT technology, and water management. They include recent publications and foundational works, indicating a comprehensive literature review. Diversifying the sources can strengthen the scientific validity of the research.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Language and quality of the article are suitable for scholarly communication. It effectively conveys technical and scientific information in a clear and coherent manner. Terminology and language used are appropriate for the subject matter, making it suitable for scholarly audiences.</p>	
<p>Optional/General comments</p>	<p>The manuscript has a well-organized structure and effectively conveys complex technical information. The inclusion of relevant references also strengthens the credibility of the research. However, I suggest improving the Figures and Pictures and presenting the results more clearly. Overall, this is a valuable contribution to the fields of Smart Water Management Techniques to Enhance Crop Productivity for Maize is good.</p>	

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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>	

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