

### Review Form 3

Journal Name:	<b>International Journal of Plant &amp; Soil Science</b>
Manuscript Number:	<b>Ms_IJPSS_122818</b>
Title of the Manuscript:	<b>Evaluation of the efficiency of irrigation in the Boghol valley, rural commune of Dabaga in the Aïr massif in Niger</b>
Type of the Article	<b>Original Research Article</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:

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#### **Important Policies Regarding Peer Review**

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**Review Form 3**

**PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p><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></p>	<p>The authors have conducted a highly relevant study entitled "Evaluation of the Efficiency of Irrigation in the Boghol Valley, Rural Commune of Dabaga in the Air Massif, Niger," which is particularly significant in the context of the changing climate. The manuscript is well-prepared overall and can be considered for publication once a few important points are addressed.</p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p>The title of the manuscript should emphasize the core aspects of the study while also conveying the broader significance of the findings. So, I suggest the alternative title "Evaluation of soil texture and amount of water required for dominant crops to improve the efficiency of irrigation under semi-arid climate of Boghol Valley in northern Niger".</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>While the abstract effectively outlines the background, methodology, and results of the study, it falls short in providing a conclusion that emphasizes the key findings and discusses the future implications of the research.</p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p>The subsections and structure of the manuscript need improvement in terms of coherence, clarity, logical structure to improve its readability. I recommend that at the end of each major section; summarize the key points briefly before transitioning to the next section. Ensure that each paragraph starts with a topic sentence that introduces the main idea, followed by supporting sentences.</p> <p>Make sure that the headings of tables and figures not only describe what is shown but also give insight into the relevance of the data in the context of your research. So, I suggest to rewrite the headings tables and figures.</p> <p>Moreover, I suggest to replace Table 1, which presents the proportion of soil texture only, with a pie chart. This will visually convey the data, making it more accessible to readers.</p> <p>Conclusion part of the study seems too shallow and vague. Authors analysed the efficiency of irrigation and summary of important crops, so conclusion must clearly depict the overall crux of the study and future implications in more details.</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 demonstrates scientific robustness and technical soundness through its comprehensive approach to evaluating irrigation efficiency in the Boghol Valley. The study employs rigorous methodologies, including detailed data collection and analysis, which are crucial for accurately assessing irrigation practices in the context of changing climatic conditions. The use of relevant techniques enhances the reliability of the results. Furthermore, the manuscript effectively contextualizes its findings within broader environmental and agricultural trends, contributing valuable insights into sustainable irrigation strategies. Overall, the thoroughness of the study and its adherence to scientific principles affirm its validity and technical integrity.</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>Please make sure that all references are cited correctly according to journal guidelines.</p> <p>My main concern is that authors have superficially discussed their work there is no discussion that could indicate the authenticity of present work done. So, I suggest to add some supporting references related to their work under the heading "Discussion" that could validate the results of present study. If possible, try incorporating new references to compare your findings with the latest research to ensure that your manuscript is up-to-date and</p>	

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	well-supported by current research.	
Minor REVISION comments  <b>Is the language/English quality of the article suitable for scholarly communications?</b>	Please check the linguistic expression and spellings carefully in all parts of the article.	
Optional/General comments		

**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)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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