

**Review Form 1.7**

Journal Name:	<b>International Journal of Plant &amp; Soil Science</b>
Manuscript Number:	<b>Ms_IJPSS_108519</b>
Title of the Manuscript:	<b>A SIMPLIFIED MATHEMATICAL EQUATION TO STUDY THE RELATIONSHIP BETWEEN WATER DRIVING FORCES AND WATER LOSSES AMOUNT IN IRRIGATION CANALS IN THE FIELD</b>
Type of the Article	<b>Original Research Article</b>

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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><b>Compulsory REVISION comments</b></p> <ol style="list-style-type: none"> <li>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li>3. <b>Is the abstract of the article comprehensive?</b></li> <li>4. <b>Are subsections and structure of the manuscript appropriate?</b></li> <li>5. <b>Do you think the manuscript is scientifically correct?</b></li> <li>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p>	<p><b>1. Title and Abstract:</b> The title accurately summarizes the main focus of the paper. However, it's recommended to make the abstract more concise and structured. The abstract should provide a brief introduction to the problem and summarize the methods, key findings, and their implications.</p> <p><b>2. Introduction:</b> The introduction provides a good background for the research, highlighting the importance of water management in agriculture and the need for innovative solutions. However, the introduction could be more focused by briefly outlining the specific problem addressed in this study and the objectives.</p> <p><b>3. Materials and Methods:</b> This section effectively describes the experimental setup and the mathematical equations used in the study. It would be helpful to clarify how the data was collected and any statistical methods used for data analysis. Additionally, consider providing more information about the instrumentation and equipment used in the experiments. Furthermore, experiments such as permeability and precipitation tests should be conducted to determine the rate of percolation.</p> <p><b>4. Results and Discussion:</b> The presentation of results is clear, with detailed tables summarizing the data. However, the discussion section is rather brief and could be expanded to provide deeper insights into the findings. For instance, explain the practical implications of the observed inverse relationship between water driving forces and water losses in irrigation canals.</p> <p><b>5. Figures and Graphs:</b> The manuscript mentions figures, but some of them are included in the text. It's advisable to include relevant figures or graphs to illustrate key points, such as the relationship between water driving forces and water losses. Additionally, the topographical, drainage, and hydrology maps of the area should be included.</p> <p><b>6. Conclusions:</b> The conclusions are clear and align with the study's findings. However, it might be helpful to briefly mention the limitations of the study and potential areas for future research.</p> <p><b>7. Citation and References:</b> Ensure that all cited sources are appropriately referenced in the text, and the references are formatted correctly according to the chosen style guide (e.g., APA, MLA, or others). The author is advised to contact more recent literature and journals.</p> <p><b>8. Clarity and Structure:</b> The manuscript is generally well-structured, but some sections could benefit from improved organization. Consider using subsections to break down the content further, making it easier for readers to follow the logical flow of the paper.</p> <p><b>9. Language and Style:</b> The paper is generally well-written, but there are minor grammatical errors and awkward phrasings. A careful proofreading pass is recommended to improve the language and overall readability.</p> <p><b>10. Practical Implications:</b> The manuscript briefly touches on the practical implications of the research, but it could be beneficial to expand on how these findings might be applied in the fields of agriculture and irrigation, as well as the potential impact on Egypt's agricultural strategy.</p> <p>In summary, this manuscript addresses an important topic in the field of agriculture and irrigation. It provides valuable data and insights, but it would benefit from some revisions to improve clarity, organization, and the depth of the discussion. Additionally, the inclusion of relevant figures to support the findings is recommended.</p>	

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<b>Minor</b> REVISION comments		
1. Is language/English quality of the article suitable for scholarly communications?		
<b>Optional/General</b> comments		

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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:**

Name:	<b>Adeola Akinrinmade</b>
Department, University & Country	<b>Al-Hikmah University, Nigeria</b>