

### Review Form 3

Journal Name:	<a href="#">International Journal of Plant &amp; Soil Science</a>
Manuscript Number:	Ms_IJPSS_127890
Title of the Manuscript:	Effect of wetting and Drying on Some Soil Properties Irrigation With Water of Different Salinity Concerti
Type of the 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:

<https://r1.reviewerhub.org/general-editorial-policy/>

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

Peer review Comments Approval Policy: <https://r1.reviewerhub.org/peer-review-comments-approval-policy/>

Benefits for Reviewers: <https://r1.reviewerhub.org/benefits-for-reviewers>

#### **PART 1: 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>
<b>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.</b>	Understanding the interplay of wetting, drying, salt concentration, and dispersion is crucial for managing irrigation, soil salinity, and soil chemical properties. Proper water management and control of thermal conditions are essential to mitigate salinity stress, maintain soil structure, and ensure sustainable crop growth.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	I suggest changing the title  I propose this title :Effect of Wetting and Drying Cycles on Soil Properties under Irrigation with Water of Varying Salinity Concentration	

**Review Form 3**

<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>- In the abstract we start with the general context of the work, then the aim, the methodology, the results, and of course we maintain a balance between these different elements. Please respect this order.</p> <p>- I suggest rephrasing the abstract to make it more clearer</p> <p>- The keywords do not adequately reflect the content of this work. try to change : for example add : Irrigation Soil ,salinity, Soil chemical properties,Thermal conditions</p> <p>I give you an example : This study examines the impact of alternating wetting and drying cycles, typical of field irrigation, on soil chemical properties under different salt concentrations. It focuses on how these cycles, combined with high thermal conditions, affect soil fertility and structure, especially in summer Objective: The aim was to assess the effect of wetting and drying cycles on the soil's chemical properties, focusing on the influence of varying salinity levels in irrigation water. Methodology: This study was conducted at five sites in Nineveh Governorate, northern Iraq, selected for soil texture variation. Surface soil samples were collected from the 0-20 cm depth, and both chemical and physical analyses were performed. Soil columns were also irrigated with well water at different salinity concentrations.</p> <p>Soil underwent ten cycles of wetting and drying, each lasting ten days. After the final cycle, samples were taken for chemical analysis to evaluate changes in properties such as electrical conductivity, pH, ion concentrations, calcium carbonate, and cation exchange capacity.</p> <p>Results: Results indicated that wetting and drying cycles increased electrical conductivity, decreased soil pH, and raised ion concentrations. Calcium carbonate content decreased, while cation exchange capacity and structural stability increased. Organic matter remained unchanged</p>	
<p><b>Is the manuscript scientifically, correct? Please write here.</b></p>	<p>- The manuscript is scientifically correct. But :</p> <p>- Add References in Results and Discussion: Including references in the Results and Discussion sections strengthens the credibility of your analysis and supports your findings .</p> <p>- Replace Tables with Figures: Figures are often more visually engaging and can present data in a clearer and more accessible way than tables</p> <p>- Add a Conclusion:A conclusion ties your study together and reinforces the key takeaways, ensuring that your readers understand the broader implications of your research.</p> <p>- Divide the Results and Discussion into Subsections</p> <p>- Make sure to integrate the figures and photos seamlessly with your discussion, referencing them in the text.</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>Add References in Results and Discussion</p>	
<p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>ok</p>	
<p><b>Optional/General</b> comments</p>	<p>-Add the Statistical Analysis</p>	

**Review Form 3**

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <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>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

Name:	<b>Ilham GRIoui</b>
Department, University & Country	<b>Tunisia</b>