

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_122369
Title of the Manuscript:	Weather variables and Reference evapotranspiration of Mustard (<i>Brassica juncea</i> L.) crop for Uttar Pradesh, India: A trend analysis
Type of the Article	Original Research Article

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PART 1: Review Comments

Compulsory REVISION 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>
<p>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.</p>	<p>The manuscript addresses an interesting research area. However, there are a lack of clarity in several points. For example:</p> <ol style="list-style-type: none"> 1. which particular state was the study conducted in? Uttar Pradesh or Haryana? confusing. 2. There is no clear conclusion on the trend of Weather in the study area (in the selected time frame) and its influence on the crop water requirement of Mustard. The conclusion of the author is like this "It may be concluded from the study that the Crop water requirement of Mustard crop ranges from 302.8mm (Western Plain) to 372.5mm (Bundelkhand region) for the Uttar Pradesh region". This was not the objective of this research. Please recheck your objective. 3. "Trend analysis of Crop water requirement of mustard by MK test revealed that out of 9 zones only Central plain has shown significantly decreasing trend". How it could be? Because in the same way you stated that there is no significant trend in seasonal & annual analysis of maximum temperature time period (1992-2022). Because crop water requirement is largely depending on temperature values. Recheck this part. 	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>Not suitable. My suggestion is: Analysing the temporal variation of ET0 and water requirement of Mustard (<i>Brassica juncea</i> L.) over different Agroclimatic Zones of Uttar Pradesh by using CROPWAT.</p>	
<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>There are no results in the abstract from main objective. Please add some results of trends wheatear variation on crop water requirement.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The structure is appropriate. However, the content needs major revision.</p>	
<p>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.</p>	<p>As it stands, I don't think the manuscript is robust. It needs major revisions, particularly in light of its objectives. The objective of the research was to analyse the trends and variations in key weather variables and reference evapotranspiration over time. The influence of variations in weather can be reflected on crop water requirement. However, the manuscript unable to discuss this issue. Therefore, I recommend to revise the manuscript deeply based on the objective.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>Sadly, the author provided only four citations in the discussion part of the manuscript. This is too small to support the results of the research.</p>	

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Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	There are several spellings, punctuation mark, grammatical errors. I recommend the author has to revisit the whole manuscript.	
<u>Optional/General</u> comments		

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>	

Reviewer Details:

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