

Review Form 3

Journal Name:	Asian Journal of Research in Crop Science
Manuscript Number:	Ms_AJRCS_128909
Title of the Manuscript:	A REVIEW ON ADVANCED APPLICATIONS OF THE AQUACROP MODEL FOR OPTIMIZED FIELD MANAGEMENT AND CLIMATE CHANGE IMPACT ASSESSMENT
Type of the Article	

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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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PART 1: 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>
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.	This manuscript provides a comprehensive review of the AquaCrop model, which is significant for the scientific community involved in agricultural modeling, climate change mitigation, and water management. It offers valuable insights into the model's applications in different crops and regions. Its emphasis on climate change impacts and the potential to optimize field management practices is timely, considering the global focus on sustainable agriculture and food security.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title is clear and accurately reflects the content of the manuscript. It describes the main focus of the paper, which is the application of the AquaCrop model in field management and climate change assessment.	
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.	The abstract provides a good overview of the manuscript's content. It briefly introduces AquaCrop, its applications, and highlights its significance in crop modeling for arid regions. However, it could be improved by mentioning the potential limitations or areas for future research, which would add depth to the summary.	
Is the manuscript scientifically, correct? Please write here.	The manuscript is scientifically correct, providing accurate descriptions of the AquaCrop model, its development, and its applications. It aligns well with the existing literature on the subject and cites relevant works in the field.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references are generally sufficient, though there is a need for more recent references, particularly in the context of climate change and the latest advancements in crop modeling. The author might consider citing more recent papers from the last 2-3 years to keep the review up-to-date with the current state of research.	
Is the language/English quality of the article suitable for scholarly communications?	The language quality is generally good, and the manuscript is well-written. However, a few sections could be rephrased for clarity, especially when explaining complex technical terms or concepts. Minor grammar corrections could also be made to improve readability.	
Optional/General comments	The manuscript could benefit from a more structured presentation of the material, such as subdividing the sections on different crop types and regions. This would make it easier for the reader to follow the different aspects of AquaCrop's applications.	

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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