

Review Form 1.7

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_108026
Title of the Manuscript:	Applications of Mathematics in Agricultural Engineering
Type of the Article	Review Article

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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>Compulsory REVISION comments</p> <ol style="list-style-type: none"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The manuscript is very important for scientific community.</p> <p>The title is suitable, but I would like to suggest the following to be used for more clarity. "Various mathematical models in Agricultural Engineering".</p> <p>The abstract of the article is comprehensive</p> <p>Subsections and structure of the manuscript are appropriate</p> <p>The manuscript is scientifically is correct</p> <p>The references sufficient but they are not recent. I would suggest additional references as follows: 1 "Mathematical modeling of water and nutrient dynamics in soil-plant systems for improved irrigation management" by Li et al. (2020) - This study explores the use of mathematical models to optimize irrigation practices and improve water and nutrient management in agricultural systems. 2. "Application of optimization algorithms in precision agriculture: A review" by Zhang et al. (2019) - This review paper discusses the application of various optimization algorithms in precision agriculture, including mathematical techniques such as genetic algorithms and particle swarm optimization, to enhance resource allocation and decision-making processes. 3. "Mathematical modeling of crop growth and yield prediction: A review" by Yin et al. (2017) - This review provides an overview of mathematical models used for crop growth and yield prediction, highlighting their importance in agricultural engineering for optimizing crop production and resource management. 4. "Mathematical modeling of soil erosion processes for sustainable land management" by Wang et al. (2018) - This research paper focuses on the development of mathematical models to simulate soil erosion processes, aiding in the design of erosion control measures and sustainable land management practices in agriculture. 5. "Statistical analysis of agricultural data for improved decision-making" by Smith et al. (2016) - This study demonstrates the use of statistical analysis techniques in agricultural data to identify patterns, trends, and correlations, enabling informed decision-making in various aspects of agricultural engineering.</p>	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> Is language/English quality of the article suitable for scholarly communications? 	<p>The language used is suitable for scholarly communication.</p>	
<p>Optional/General comments</p>	<p>Co2 should be properly written as Co₂</p>	

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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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