

Review Form 3

Journal Name:	Journal of Scientific Research and Reports
Manuscript Number:	Ms_JSRR_131422
Title of the Manuscript:	Forecasting of Cropping Intensity of Kerala in India: a Multivariate Approach
Type of the Article	Original Research Article

PART 1: Comments

	<b>Reviewer’s comment</b> Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.	<b>Author’s Feedback</b> (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
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 is highly relevant to the scientific community as it addresses an important aspect of agricultural sustainability—cropping intensity forecasting using a multivariate approach. Given the challenges of declining agricultural land use in Kerala, this study provides valuable insights into how factors like Gross Cropped Area, Net Cropped Area, and Annual Rainfall influence cropping intensity. By employing the Vector Auto Regressive (VAR) model, the study offers a robust statistical framework for understanding and predicting cropping trends, which can aid policymakers and agricultural planners in making data-driven decisions. Additionally, the research fills a gap in time-series forecasting of agricultural parameters in the Indian context, providing a methodological reference for future studies.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title is appropriate as it clearly conveys the focus of the study.	
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>The abstract provides a clear summary of the study, including the research objective, methodology, key findings, and implications. However, it can be improved by:</b> <ul style="list-style-type: none"><li>Briefly mentioning the statistical validation tests (e.g., ADF test, Granger Causality) used to confirm model accuracy.</li><li>Including a statement on the practical implications of the forecast results for agricultural policy and planning.</li><li>Clarifying the limitations of the study, such as possible external factors influencing cropping intensity that were not considered in the model.</li></ul>	
Is the manuscript scientifically, correct? Please write here.	Yes, the manuscript is scientifically correct and presents a rigorous methodology for forecasting cropping intensity	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references include relevant studies on cropping patterns and statistical modeling, but some are relatively old (e.g., Viswanathan, 2014; Joseph & Joseph, 2005). It would be beneficial to include more recent studies (post-2020) on the application of time-series models in agricultural forecasting. Suggested references: <ul style="list-style-type: none"><li>Recent studies on machine learning-based forecasting models in agriculture.</li><li>Studies examining climate change impacts on cropping intensity in Kerala.</li></ul>	

Review Form 3

Is the language/English quality of the article suitable for scholarly communications?	The language is generally clear and suitable for scholarly communication. However, there are minor grammatical errors and awkward sentence structures that could be revised for better readability. A professional proofreading session or language editing tool would enhance the clarity and flow of the manuscript.	
Optional/General comments	<ul style="list-style-type: none"><li>The manuscript could benefit from graphical representations of model validation results (e.g., normality test distribution, residual plots).</li><li>A sensitivity analysis on how different lag selections (p-values) impact forecasting accuracy would add robustness to the study.</li><li>The conclusion should provide more actionable insights, such as how policymakers and farmers can use these forecasts in agricultural decision-making.</li></ul>	

PART 2:

	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)
Are there ethical issues in this manuscript?	(If yes. Kindly please write down the ethical issues here in details)	

Reviewer Details:

Name:	Udaya Kumar Addanki
Department, University & Country	Anurag University, India