

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

	Reviewer’s comment Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.	Author’s Feedback (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.	Thank you for your understanding on the importance of this paper.
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.	Thank you for your appreciation
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 clear summary of the study, including the research objective, methodology, key findings, and implications. However, it can be improved by: <ul style="list-style-type: none">Briefly mentioning the statistical validation tests (e.g., ADF test, Granger Causality) used to confirm model accuracy.Including a statement on the practical implications of the forecast results for agricultural policy and planning.Clarifying the limitations of the study, such as possible external factors influencing cropping intensity that were not considered in the model.	Thank you for your comments. Brief mention about validation tests and decision criteria was added. Practical implications of the forecasting were included. As it needs more research on numerous other factors influencing cropping intensity, the limitation of the study was not given in abstract.
Is the manuscript scientifically, correct? Please write here.	Yes, the manuscript is scientifically correct and presents a rigorous methodology for forecasting cropping intensity	Thank you for your valuable comments
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">Recent studies on machine learning-based forecasting models in agriculture.Studies examining climate change impacts on cropping intensity in Kerala.	Thank you for your suggestions. Some references were added which related to time series forecasting and machine learning

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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.	Thank you. Refinement of the language was done.
Optional/General comments	<ul style="list-style-type: none">The manuscript could benefit from graphical representations of model validation results (e.g., normality test distribution, residual plots).A sensitivity analysis on how different lag selections (p-values) impact forecasting accuracy would add robustness to the study.The conclusion should provide more actionable insights, such as how policymakers and farmers can use these forecasts in agricultural decision-making.	Thank you for your valuable suggestions. The rectification will be done in the future papers.

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)	