

Review Form 3

Journal Name:	Journal of Experimental Agriculture International
Manuscript Number:	Ms_JEAI_130917
Title of the Manuscript:	INTEGRATING LAND SUITABILITY AND SOCIO-ECONOMIC ANALYSIS FOR SUSTAINABLE AGRICULTURE IN TASIKMALAYA REGENCY, WEST JAVA, INDONESIA
Type of the Article	ORIGINAL RESEARCH ARTICLE

PART 1: Comments

	Reviewer’s comment	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 significantly contributes to the scientific community by integrating land suitability analysis with socio-economic assessments to enhance agricultural productivity in Tasikmalaya Regency. By combining GIS-based evaluations, economic feasibility analyses, and sustainable intensification strategies, it provides a data-driven framework for optimizing land use and improving farmer livelihoods. The study identifies key challenges, such as soil fertility limitations, irrigation deficiencies, and market access constraints, offering targeted solutions to address them. Its findings serve as a valuable resource for policymakers, researchers, and stakeholders in agricultural planning and rural development.	This manuscript offers a comprehensive analysis of land suitability and socio-economic factors influencing strategic agricultural commodities in Tasikmalaya Regency, West Java, Indonesia. By integrating these two critical aspects, the study provides valuable insights into optimizing agricultural practices tailored to the region's unique environmental and socio-economic conditions. Such an approach not only enhances the understanding of sustainable agriculture in similar contexts but also serves as a model for future research aiming to balance ecological suitability with socio-economic viability. Consequently, this work significantly contributes to the scientific community's efforts in promoting sustainable agricultural development.
Is the title of the article suitable? (If not please suggest an alternative title)	I suggest “Land Suitability and Socio-Economic Analysis for Sustainable Agriculture in Tasikmalaya, Indonesia”	Integrating Land Suitability and Socio-Economic Analysis For Strategic Agriculture Commodities In Tasikmalaya Regency, West Java, Indonesia

Review Form 3

<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>Revised Version Example (More Concise & Impactful Abstract)</p> <p><i>Tasikmalaya Regency has diverse land resources, yet agricultural productivity remains suboptimal due to environmental and socio-economic constraints. This study integrates land suitability analysis with economic feasibility assessments to optimize agricultural development. Using GIS-based land evaluation and socio-economic surveys, the study assesses nine key commodities across agro-ecological zones. The results indicate that most areas are classified as moderately (S2) or marginally suitable (S3), with potential for high suitability (S1) for rice, potatoes, and carrots following soil and irrigation improvements. Economic analysis reveals that plantation crops (cocoa, coffee, and cloves) are more profitable than horticultural crops, though market access and infrastructure limitations hinder overall profitability. The study provides zoning recommendations and highlights the need for targeted investments in irrigation, farmer training, and agro-industrial integration. These findings offer valuable insights for policymakers, researchers, and stakeholders in advancing sustainable and economically viable agriculture in the region.</i></p>	<p>The varied topography of Tasikmalaya Regency, characterized by its hills, plains, and valleys, significantly influences the agricultural practices that serve as the primary livelihood for 4,113 residents. Nonetheless, the key agricultural commodities such as rice, corn, vegetables, and fruits demonstrate suboptimal economic performance, largely attributable to environmental and socioeconomic constraints. This research integrates land suitability analysis with economic feasibility assessments to maximize agricultural development within the region. Utilizing Geographic Information System (GIS)-based land evaluation techniques alongside socioeconomic surveys, we analyzed nine principal commodities across distinct agroecological zones, specifically focusing on lowland rice, corn, potatoes, carrots, cabbage, tomatoes, cocoa, cloves, and coffee. The findings suggest that the majority of areas fall within the categorizations of moderately suitable (S2) or marginally suitable (S3), with potential for high suitability (S1) for rice, potatoes, and carrots contingent upon enhancements in soil quality and irrigation practices. The economic analysis indicates that plantation crops, including cocoa, coffee, and cloves, yield greater profitability compared to horticultural products. However, limitations related to market access and infrastructure impediments adversely affect overall profitability. Zoning recommendations arise from this analysis, proposing the cultivation of lowland rice in the northern regions, corn and peanuts in central areas, horticulture across the northern to central zones on Red-Yellow Podzolic soils, and the production of cloves and plantation crops in the central to southern regions. This study underscores the necessity for focused investments in irrigation systems, farmer education, and agro-industrial integration to bolster agricultural productivity and enhance the welfare of farmers in Tasikmalaya Regency.</p>
<p>Is the manuscript scientifically, correct? Please write here.</p>	<p>Overall, the manuscript is scientifically correct, with a strong foundation in land suitability analysis and socio-economic assessment. However, minor clarifications in classification criteria, economic indicators, data sources, and socio-cultural factors would further enhance its scientific rigor. If these points are addressed, the study will be even more robust and valuable for agricultural policy and planning.</p>	<p>agree</p>
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>✓ Overall, the references are relevant but could be more recent and diverse. While a few references from 2020–2024 are present, many citations are from earlier years. More recent studies (2021–2024) on land suitability, climate-smart agriculture, and precision farming could strengthen the manuscript.</p> <p>✓ Adding more studies from 2021–2024 on GIS, precision agriculture, irrigation management, and socio-economic resilience would enhance the manuscript's scientific foundation.</p> <p>✓ Citing globally recognized sources such as FAO, IPCC, and recent peer-reviewed studies would improve credibility.</p>	<p>agree</p>

Review Form 3

Is the language/English quality of the article suitable for scholarly communications?	<div>1. Grammatical Errors & Wordiness</div> <div><div></div> Some sentences are too long and complex, making them difficult to read.</div> <div><div></div> Example:<div><div>✓</div> <i>"Despite agriculture being the primary livelihood for 41.13% of the population, the productivity of key agricultural commodities such as rice, corn, vegetables, and fruits remains suboptimal, limiting economic profitability."</i></div><div><div>✓</div> Improved version: <i>"Although 41.13% of the population depends on agriculture, productivity remains low, limiting economic profitability."</i></div></div>
---	--

2. Redundant Phrasing

 Some phrases could be more concise without losing meaning. Example:

✓

"The study evaluates the land suitability and economic viability of 9 major commodities, encompassing food crops, horticulture, and plantation crops."

✓

Improved version: *"This study assesses the suitability and economic viability of nine key crops, including food, horticulture, and plantation commodities."*

3. Inconsistent Use of Tenses

 Some sections **mix past and present tense**, making it inconsistent.**Correction:**

✓

 Use **past tense** for methods and results (*"Data were collected using GIS-based analysis"*)

✓

 Use **present tense** for general facts (*"Agricultural productivity depends on land suitability"*)

4. Improving Readability and Flow

 The manuscript **sometimes repeats ideas**, which can be streamlined for better readability. Example:

✓

 The conclusion **repeats** zoning recommendations without summarizing their broader impact.

Overall Assessment:

❖

 The **language is appropriate** for scholarly communication but needs **minor grammatical and stylistic improvements**.

❖

Simplifying complex sentences, removing redundancies, and ensuring consistency in tense will enhance clarity.

❖

 A **professional proofreading service or grammar tool** (e.g., Grammarly, Hemingway Editor) could help refine the text further.

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)	No, there are not