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REVIEWER'S REPORT

Manuscript No.: IJAR-50426

Date: 25/2/2025

Title: Effect of the optimized Guiera senegalensis system on crop performance (millet, groundnut) in the northern Peanut Basin (Senegal)

Recommendation:

- Accept as it is
- Accept after minor revision.....
- Accept after major revision√.....
- Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		√		
Techn. Quality			√	
Clarity			√	
Significance		√		

Reviewer Name: Ahmed M. Saqr

Date: 25/2/2025

Reviewer's Comment for Publication.

(To be published with the manuscript in the journal)

The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.

The manuscript presents a valuable contribution to the field of agroforestry by demonstrating how an optimized Guiera senegalensis system can enhance crop performance and rainwater use efficiency in a semi-arid region. The study's strengths lie in its robust experimental design, comprehensive analysis, and potential implications for improving agricultural resilience and food security in the Sahelian zone.

Detailed Reviewer's Report

Thank you for the opportunity to review the manuscript titled "Effect of the optimized Guiera senegalensis system on crop performance (millet, groundnut) in the northern Peanut Basin (Senegal)".

This study presents a promising exploration of how an optimized Guiera senegalensis system can enhance crop performance in a semi-arid region. While the manuscript provides valuable insights, several aspects require improvement and further clarification. Therefore, I recommend a major revision of the manuscript.

REVIEWER'S REPORT*Comments and Suggestions for Authors*

Abstract: *The abstract provides an overview of the study, but it lacks specific details about the statistical significance of the results. Can you include key statistical findings to strengthen the abstract?*

Introduction: *The introduction highlights the importance of crop performance improvement in Senegal. However, it could benefit from a clearer articulation of the research gap being addressed. Can you elaborate on this?*

Figures and Tables: *Some figures are not well-labeled and are difficult to interpret (e.g., Figures 1 and 2). Would you consider improving the clarity of the figures and providing more descriptive captions?*

Methodology: *The methodology describes the study design but lacks detailed information on how quality control was ensured during data collection. Can you provide more details about the quality control measures used?*

Results: *The results section is comprehensive but includes excessive detail that might be better suited for supplementary materials. Would you consider summarizing the key findings more succinctly?*

Discussion: *The discussion lacks a critical comparison with prior research. Are there specific similarities or differences between your findings and previous studies? Please provide a more detailed comparison.*

References: *The references appear to be comprehensive, but some recent studies on agroforestry systems are missing. Have you considered including more recent literature?*

Crop Management Practices: *The description of crop management practices could be expanded to include more details about how these practices may have influenced the study's results. Can you elaborate on this?*

Conclusions and Future Research: *The conclusion section could be strengthened by including specific suggestions for future research directions. Would you consider adding this?*

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Formatting and Language: The manuscript contains several formatting inconsistencies and language errors. Would you consider revising the manuscript for clarity and alignment with journal guidelines?