



### REVIEWER'S REPORT

Manuscript No.: IJAR-50426

Date: 27-02-2025

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

**Recommendation:**

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

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

**Reviewer's Name:** Tahir Ahmad

**Reviewer's Decision about Paper:**      **Recommended for Publication.**

**Comments** (*Use additional pages, if required*)

### Reviewer's Comment / Report

**Authorship Contribution Statement Review:**

The CRediT authorship statement clearly delineates the roles and responsibilities of each contributor, providing transparency regarding conceptualization, methodology, investigation, formal analysis, writing, supervision, funding acquisition, and project administration. The collaborative effort is well-documented, reflecting a structured and organized research approach.

**Abstract Review:**

The abstract effectively presents the research objective, methodology, and key findings. It succinctly introduces the significance of agroforestry systems in restoring degraded soils and enhancing agricultural yields in the Sahel. The comparison between the optimized (OSS) and traditional (TMS) *Guiera senegalensis* management systems is well-articulated. The description of the randomized block design with fifteen replications ensures clarity in the experimental approach. The inclusion of measurements such as plant height, LAI, NDVI, yield components, and rainwater use efficiency strengthens the research's scientific rigor. The results highlight the superior performance of the optimized system, leading to improved crop growth, yield components, and water use efficiency. The conclusion effectively summarizes the key findings, emphasizing the overall increase in crop performance under OSS.

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### **Résumé Review:**

The French abstract accurately mirrors the English abstract, maintaining consistency in research objectives, methodology, and findings. The technical terms, experimental design, and measurement parameters are clearly described. The summary effectively communicates the enhanced crop performance observed in the optimized system compared to the traditional system. The language is precise, and the key points are well-structured.

### **Key Words Review:**

The selected key words—Peanut Basin, Guiera senegalensis, Optimized System, Millet, Groundnut, Crop Performance—are relevant and reflect the core themes of the research. They enhance the discoverability of the study in academic and scientific databases.

### **Overall Review:**

The study is well-structured, with a clear research objective, robust methodology, and significant findings. The comparison between OSS and TMS is effectively articulated, and the inclusion of multiple performance metrics strengthens the credibility of the conclusions. The language is precise, and both the English and French abstracts maintain consistency. The study contributes valuable insights into agroforestry practices and sustainable agriculture in the Sahel.