

REVIEWER'S REPORT

Manuscript No.: IJAR-54114

Title: Agronomic performance of cowpea [*Vigna unguiculata* (L.) WALP.] varieties as influenced by combined application of Poultry Manure and Mineral Fertilizer in two agro-ecological zones of Burkina Faso

Recommendation:

Accept as it is.

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

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

Reviewer Name: **Dr Thirunahari Ugandhar**

Date:

Detailed Reviewer's Report

Review Comments (Short & Positive)

The manuscript presents a well-designed study on the combined effects of poultry manure and mineral fertiliser on cowpea varieties across two agro-ecological zones in Burkina Faso. The inclusion of detailed tables, graphs, and figures enhances clarity and effectively supports the results.

The study is timely and relevant, demonstrating that integrated nutrient management can significantly improve cowpea growth, yield components, and overall productivity. The split-plot design with multiple varieties and fertilizer treatments is appropriate, and the results are well-analyzed using ANOVA.

The discussion appropriately links findings to varietal differences, fertilizer effects, and environmental factors, highlighting practical implications for farmers. The conclusions are clear and emphasize the benefits of combining organic and mineral fertilizers.

Overall: The manuscript is scientifically sound, well-structured, and contributes valuable insights to sustainable cowpea production. Minor language polishing may further improve readability.

General Comments

This manuscript presents a relevant and well-conducted study on improving cowpea productivity through the combined application of poultry manure and mineral fertilizers across two agro-ecological zones in Burkina Faso. The study design, including multiple varieties and treatments, is appropriate and provides reliable results.

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The inclusion of clear tables, figures, and graphs enhances the visualization of data and strengthens the presentation of findings. The results are meaningful, showing how integrated nutrient management can boost cowpea growth, yield, and fodder quality while contributing to soil fertility restoration.

The discussion effectively connects the findings to varietal differences, fertilizer treatments, and environmental conditions, providing practical insights for farmers and researchers. Overall, the manuscript is scientifically sound, informative, and makes a valuable contribution to sustainable cowpea production.

Reason: The study is scientifically sound, well-designed, and provides valuable insights into cowpea yield improvement using integrated nutrient management. Minor language polishing and formatting improvements are suggested to enhance readability.