

REVIEWER'S REPORT

Manuscript No.: IJAR-54114

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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		X		
Techn. Quality		X		
Clarity			X	
Significance			X	

Reviewer Name: Dr Lakhdar Guerine

Date:

Detailed Reviewer's Report

This study assessed the agronomic performance of four cowpea varieties under different combinations of poultry manure and mineral fertilizers across two agro-ecological zones in Burkina Faso. Results indicated that both location and fertilizer regimes significantly influenced plant growth, yield components, and overall productivity. The combined use of poultry manure and mineral fertilizers consistently enhanced grain and fodder yields. Varietal differences also played a crucial role in determining performance across sites and years. The findings suggest that integrated soil fertility management can sustainably improve cowpea yields in semi-arid environments.

Strengths

1. The study design is robust, with split-plot experiments conducted across two years and two agro-ecological zones.
2. Comprehensive agronomic data were collected, including growth, yield, and soil properties.

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3. The integration of organic and inorganic fertilizer management provides practical recommendations for sustainable agriculture.

Weaknesses

1. The discussion could better link findings to broader implications for smallholder farmers and regional food security.
2. Limited socio-economic analysis of the feasibility of poultry manure use at scale.
3. Some tables and figures are poorly formatted or difficult to read and should be redesigned for clarity.
4. The conclusion section could be strengthened by highlighting more explicitly the study's novelty and future research directions.