

REVIEWER'S REPORT

Manuscript No.: JNAVES-041

Title: IMPACT OF ORGANIC SOIL AMENDMENTS ON SOIL FERTILITY AND YIELD PERFORMANCE OF MAIZE (ZEA MAYS L.) UNDER SUSTAINABLE FARMING SYSTEMS.

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 Id: JPR-168

Reviewer's Comment for Publication.

The manuscript presents a well-designed study evaluating the effects of different organic soil amendments on soil fertility and maize productivity under sustainable farming systems. The research addresses an important issue in sustainable agriculture by comparing farmyard manure, vermicompost, and poultry manure under field conditions. The objectives are clearly defined, the experimental design (RCBD) is appropriate, and the manuscript is logically organized. The results demonstrate the beneficial effects of organic amendments, particularly vermicompost, on soil physicochemical properties and crop yield, providing useful information for sustainable nutrient management.

The manuscript is recommended for publication after the following minor revisions:

1. Provide additional information on the initial soil characteristics, including texture, pH, organic carbon, and available nutrient status before treatment application.
2. Describe the chemical composition and nutrient content of the organic amendments (farmyard manure, vermicompost, and poultry manure) to improve reproducibility.
3. Present measures of variability (standard error or standard deviation) along with the mean values in all tables, and include ANOVA results, Duncan's Multiple Range Test groupings, and significance levels.
4. Expand the discussion by comparing the findings with more recent peer-reviewed studies and providing a deeper explanation of the mechanisms responsible for improved soil fertility and maize yield.
5. Although the study acknowledges its single-season limitation, briefly discuss the need for multi-location and long-term field trials to validate the consistency of the results under different agroecological conditions.
6. Carefully proofread the manuscript to ensure consistency in table formatting, units of measurement, scientific terminology, and reference style.

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Overall, the study provides valuable scientific evidence supporting the use of organic soil amendments for improving soil fertility and sustainable maize production. After addressing the above minor comments, the manuscript will be suitable for publication.