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| Journal Name: | [**Asian Journal of Research in Crop Science**](https://journalajrcs.com/index.php/AJRCS) |
| Manuscript Number: | **Ms\_AJRCS\_131596** |
| Title of the Manuscript: | **EFFECTS OF DIFFERENT LEVELS OF COMPOST ON GROWTH PARAMETERS OF OKRA** |
| Type of the Article |  |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | Manuscripts’ Significance to the Scientific Community for researchers and members of the agricultural community alike, this paper represents a substantial addition to the current literature on artificial amendments in soil health and crop production, specifically through the study of compost. More specifically, the results highlight the importance of compost on soil physical and chemical characteristics which can enhance water retention, nutrient availability and general structure of the soil. The increasing organic movement and eco-friendly cultivation, on a global scale, demand that this research could be of considerable interest to practitioners in the field of okra production, as well as to academia in seeking welfare improvements by decreasing chemical use. The research may help farmers, agronomists, and policymakers who are seeking sustainable soil management practices, as well as enhanced crop yields. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The title **"Effects of Different Levels of Compost on Growth Parameters of Okra"** is clear and accurately reflects the study’s content. However, a slight refinement could improve clarity and specificity. Here are some alternative suggestions:   1. **"Impact of Compost Levels on Soil Properties and Growth Performance of Okra"** 2. **"Evaluating Compost as a Soil Amendment for Okra Growth and Productivity"** 3. **"Enhancing Okra Growth and Soil Health through Compost Application"** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | The abstract is well-structured and provides a clear summary of the study. But, some minor adjustments are suggested:   1. The phrase **"the were subjected to analysis of variance (ANOVA)"** should be corrected to **"they were subjected to analysis of variance (ANOVA)."** 2. The abstract effectively presents the research background, methodology, and key findings but should explicitly state the main conclusion—e.g., compost at 1000g yielded the best results. 3. It would be beneficial to highlight the practical implications of the findings in sustainable agriculture more clearly.   **Suggested Revision (Final Sentences):** "The study concluded that increasing compost levels significantly improved soil health and okra growth, with 1000g treatment yielding the tallest plants and highest leaf count. These findings underscore the importance of compost application in sustainable agriculture, promoting soil fertility and reducing reliance on synthetic fertilizers." |  |
| Is the manuscript scientifically, correct? Please write here. | The manuscript is scientifically correct, with well-defined methodologies and relevant statistical analyses. The experimental design (Randomized Complete Block Design) is appropriate, and the soil and plant parameters measured align with standard agronomic research practices. However, the discussion should further elaborate on the practical applicability of compost for large-scale farming beyond controlled greenhouse conditions. Additionally, the study could benefit from addressing potential limitations, such as climatic conditions or soil variability that may influence compost effectiveness in different environments. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references are generally sufficient and relevant, with many citations from reputable journals and books. However, some references are slightly outdated (e.g., Brady & Weil, 2017; Rillig et al., 2016; Bonanomi et al. 2015 and Gupta and Sharma, 2017). More recent studies (2022–2024) on compost use in agriculture could strengthen the manuscript. If available, additional references on the impact of compost on other crops in similar agroecological conditions would be beneficial. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The manuscript is written in a generally clear and scholarly manner. However, some grammatical and typographical errors need attention, such as:   1. **"the were subjected to"** **"they were subjected to"** 2. **"these results play a crucial role in understanding"** (should be refined for smoother readability) 3. Some sentences are overly long and could be broken down for clarity. |  |
| Optional/General comments | 1. The **introduction** is well-developed but could more explicitly define the research gap and objectives. 2. The **materials and methods** section is comprehensive but could benefit from a brief discussion on compost composition variations and their potential effects. 3. The **results** section presents data effectively, but some tables could be formatted for improved readability. Consider summarizing key takeaways in bullet points. 4. The **discussion** effectively connects findings with previous studies but should expand on broader agricultural implications, such as compost’s economic feasibility for small-scale farmers. 5. The **conclusion** is concise but should reiterate the most significant findings and their practical applications.   **Final Recommendation:** The manuscript is a valuable contribution to sustainable agriculture research. Minor revisions in language, clarity, and discussion depth would improve its quality for publication. |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*** |
| **Are there ethical issues in this manuscript?** | ***(If yes, Kindly please write down the ethical issues here in details)*** |  |

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| **Reviewer Details:** | |
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| **Department, University & Country** | **Federal College of Horticulture Dadin-Kowa, Nigeria** |