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| Journal Name: | [**Journal of Advances in Biology & Biotechnology**](https://journaljabb.com/index.php/JABB) |
| Manuscript Number: | **Ms\_JABB\_135261** |
| Title of the Manuscript: | **Evaluation of Maize Growth, Yield, and Economic Returns Influenced by Applied and Residual Phosphorus and Defoliants in a Pigeonpea-Maize Cropping System under Rainfed Conditions in Telangana** |
| Type of the Article | **Original Research 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** (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.** | The combination of phosphorus fertilization and the use of defoliants is a relevant topic for the scientific community. The pigeonpea-maize production system holds global importance, not just for India. The evaluation of economic data adds further knowledge to the field, providing not only an isolated perspective on plant growth and development but also on the economic returns associated with it. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The title is quite long and could be shortened to: Maize Growth, Yield, and Economic Returns as Influenced by Phosphorus and Defoliants in a Pigeonpea-Maize Cropping System. |  |
| 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 of the article covers the main points. |  |
| Is the manuscript scientifically, correct? Please write here. | The manuscript is scientifically sound, although it requires some corrections.  The text is organized into very long paragraphs; I suggest breaking them into shorter paragraphs to facilitate comprehension, improve the cohesion of the results, and enhance the articulation of ideas.  The keywords are also present in the article title; I recommend selecting alternative keywords.  In the introduction, the first paragraph lacks a proper reference, as it only cites a website. Additionally, the use of desiccants in maize should be discussed, and the research objective should be clearly stated.  In the methodology section, the type of mean comparison test used was not specified.  For the tables, I suggest including letters to distinguish statistical groups of means.  In the conclusion, abbreviations such as DAS and LAI should be avoided. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references are not recent, with all being over 13 years old. My suggestion is to include more up-to-date references.  Additionally, two references are listed but not cited in the text:   * Nooli, S.S. (2001). Influence of in-situ green manuring of intercropped legumes on the performance of maize-safflower sequence cropping. M.Sc. (Agri.) Thesis. University of Agricultural Sciences, Dharwad. * Tiwari, R.C., Sharma, P.K., and Khadelwal, S.K. (2004). Effect of green manuring through Sesbania cannabina and Sesbania rostrata and nitrogen application through urea to maize (Zea mays) in a maize-wheat (Triticum aestivum) cropping system. Indian Journal of Agronomy, 49(1), 15–17.   Furthermore, the name of the author Shafi et al. (2007) appears inconsistently between the in-text citation and the reference list. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The quality is satisfactory. |  |
| Optional/General comments |  |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (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)* |  |

**Reviewer details:**

**Lucas Carneiro Maciel, Universidade Federal do Tocantins, Brazil**