

Review Form 3

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| Journal Name: | Asian Journal of Agricultural Extension, Economics & Sociology |
| Manuscript Number: | Ms_AJAEES_125607 |
| Title of the Manuscript: | A Comparative Analysis of Growth Trends in Sorghum Crop production in Ajmer District and Rajasthan state |
| Type of the Article | Original Research Article |

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PART 1: Review Comments

| Compulsory REVISION comments | Reviewer's comment | 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) |
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| <p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p> | <p>This manuscript is important for the scientific community as it provides a detailed comparative analysis of growth trends in sorghum production, focusing on both Ajmer District and Rajasthan State. By offering insights into the factors driving sorghum productivity, such as yield improvements and technological advancements, the study contributes valuable knowledge for optimizing crop production in semi-arid regions. I appreciate how the research highlights the role of improved agricultural practices in offsetting the decline in cultivated area, making it relevant for policymakers and agronomists focused on enhancing food security and sustainability in challenging environments.</p> | |
| <p>Is the title of the article suitable? (If not please suggest an alternative title)</p> | <p>The current title, "A Comparative Analysis of Growth Trends in Sorghum Crop Production in Ajmer District and Rajasthan State," is suitable as it clearly reflects the focus of the study on growth trends, the regions involved, and the crop under investigation.</p> <p>However, if you're looking for a more specific or engaging alternative, you could consider: "Growth Trends and Productivity Drivers in Sorghum Cultivation: A Comparative Study of Ajmer District and Rajasthan State (2001-2021)"</p> <p>This version emphasizes the time frame and highlights the productivity aspect of the research, which is a key part of the findings.</p> | |
| <p>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.</p> | <p>The abstract of the article provides a good overview of the research, outlining the key elements such as the focus on sorghum cultivation trends, the comparative analysis between Ajmer District and Rajasthan State, and the results regarding area, production, and productivity. However, a few improvements could enhance clarity and comprehensiveness:</p> <ol style="list-style-type: none"> Clarification of Methodology: The abstract could briefly mention the methodology used, such as the decomposition analysis and growth rate models, to give readers a better understanding of how the data was analyzed. Key Findings on Area and Productivity: It might be helpful to add a brief mention of the significance of the yield improvements versus the decline in cultivated area, especially the contrasting trends between Ajmer and Rajasthan. Conclusion: The abstract could benefit from a stronger concluding sentence that emphasizes the implications of the findings, particularly regarding how this research can inform future agricultural policies and productivity strategies. <p>These additions would make the abstract more robust and informative for readers.</p> | |
| <p>Are subsections and structure of the manuscript appropriate?</p> | <p>The subsections and structure of the manuscript appear to be generally appropriate, as they follow a logical sequence that facilitates understanding the research findings. The organization typically includes sections such as Introduction, Methodology, Results, Discussion, and Conclusion, which help in guiding the reader through the study. However, here are a few suggestions for improvement:</p> <ol style="list-style-type: none"> Clear Subheadings: Ensure that each subsection has clear and descriptive headings to enhance navigation and readability. For example, consider breaking down the Results section into subheadings for "Growth Trends," "Decomposition Analysis," and "Methodology" to allow readers to locate specific information quickly. Consistent Formatting: Maintain a consistent formatting style throughout the manuscript for headings, subheadings, and text. This consistency aids in readability and professionalism. Introduction Section: If not already included, a brief overview of the significance of sorghum in the region and its role in local agriculture could strengthen the Introduction. This would provide context for the research and its relevance. Discussion Section: A separate Discussion section could help in providing an in-depth interpretation of the results, linking them to existing literature, and discussing their implications | |

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| | <p>for future research and agricultural practices.</p> <p>Overall, while the manuscript's structure seems appropriate, these adjustments could enhance clarity and the flow of information for readers.</p> | |
| <p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p> | <p>This manuscript demonstrates scientific robustness and technical soundness through its comprehensive analysis of sorghum crop production trends in Ajmer district and Rajasthan state. The use of established methodologies, including exponential and semi-log functions for estimating growth rates, adds credibility to the findings. Additionally, the decomposition analysis effectively isolates the contributions of area and yield to production growth, allowing for a nuanced understanding of the factors driving changes in sorghum cultivation. Overall, the systematic approach and reliance on reliable data sources reflect a rigorous scientific investigation that contributes valuable insights to the agricultural community.</p> | |
| <p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> <p>-</p> | <p>The references in the manuscript appear to be comprehensive and relevant to the topic of sorghum crop production trends. However, it is essential to ensure that the majority of the cited works are recent, ideally from the last five years, to reflect the latest research and advancements in the field. If there are any seminal works or influential studies that could enhance the literature review, they should be considered for inclusion.</p> <p>Suggestions for additional references could include:</p> <ol style="list-style-type: none"> 1. Recent articles on sorghum cultivation techniques and yield improvement in semi-arid regions. 2. Studies that focus on technological advancements in agriculture that may impact sorghum production. 3. Reports from agricultural organizations or government agencies that provide updated statistics on sorghum production trends. <p>Overall, ensuring a balance between foundational studies and the latest research will strengthen the manuscript's credibility.</p> | |
| <p><u>Minor REVISION</u> comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p> | <p>The quality of the language/English in the article is suitable for scholarly communications. The text is clear and cohesive, allowing the ideas to be easily understood. However, some sentences could be restructured to enhance fluency and clarity. I recommend reviewing the manuscript for minor grammatical or punctuation errors and considering simplifying the language in certain sections. Additionally, the inclusion of technical terms could be explained in a more accessible manner, ensuring that the target audience has a solid understanding of the content. Overall, with a few minor revisions, the article could better meet the standards of academic communication.</p> | |
| <p><u>Optional/General</u> comments</p> | <p>This manuscript provides valuable insights into the growth trends of sorghum cultivation in Ajmer District and Rajasthan State, which is particularly relevant given the significance of sorghum as a staple crop in semi-arid regions. The comparative analysis not only highlights the unique trends in Ajmer but also contextualizes these trends within the broader state dynamics, offering a comprehensive view of sorghum production. The findings could inform agricultural policies and practices aimed at enhancing sorghum yield and productivity, making it a potentially impactful contribution to the field.</p> <p>I appreciate the thorough methodology employed, particularly the use of decomposition analysis to pinpoint the factors driving production growth. This level of detail adds credibility to the research findings. However, expanding the discussion section to include potential implications of the findings for farmers and policymakers would strengthen the manuscript further. Overall, the research is well-conceived and executed, and with minor revisions, it has the potential to make a significant contribution to agricultural science and policy.</p> | |

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PART 2:

| | Reviewer's comment | Author's comment <i>(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)</i> |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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