

Review of: "Growth, Instability and Trend Analysis of Rice Production Indicators in Nigeria"

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Potential competing interests: No potential competing interests to declare.

The research provides valuable insights into the trends and decomposition of milled rice production indicators in Nigeria. However, there are several areas that could be addressed to enhance the clarity and robustness of the study.

1. Clarify the specific objectives of the study in relation to understanding the trends and decomposition of milled rice production indicators in Nigeria.
2. Provide more information on the FAOSTAT database, such as the reliability and accuracy of the data. Discuss any potential limitations or biases associated with using secondary-time series data, and how these limitations may impact the findings.
3. Elaborate on the rationale for choosing the descriptive statistics, compound annual growth rate (CAGR), decomposition analysis, and Instability Index as the analytical tools. Discuss why these methods are appropriate for the research objectives and how they complement each other.
4. Provide a brief interpretation of the CAGR values for harvested area, yield, and rice production. Explain the significance of these values and how they contribute to the overall understanding of the changes in rice production indicators.
5. Expand on the interpretation of the decomposition analysis results. Discuss the implications of the 58% contribution of harvested area to rice production compared to the yield effect and interaction.
6. Explain the significance of the instability indexes for yield, milled rice production, and area under rice cultivation. What do these values indicate about the volatility of each indicator, and how do they contribute to the overall assessment of rice production stability?
7. Acknowledge the limitation of lacking current data up to 2022 and discuss the potential impact on the relevance and applicability of the findings.
8. Emphasize the novelty of employing decomposition techniques and the Cuddy Della Valle Index for assessing rice production indicators in Nigeria. Highlight the contribution of these methods to the existing literature on the subject.
9. Summarize the key findings and their implications for policymakers, researchers, and practitioners. Provide recommendations for addressing the identified weaknesses in Nigeria's rice yield and suggest potential strategies for sustainable growth.

By addressing these points, the research can further strengthen its contribution to the understanding of milled rice production dynamics in Nigeria.

