

Review of: "Assessment of Quality, Bacterial Population and Diversity of Irrigation Water in Selected Areas of Minna, Niger State, Nigeria"

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Potential competing interests: No potential competing interests to declare.

After reviewing the study "Assessment of Quality, Bacterial Population and Diversity of Irrigation Water in Selected Areas of Minna, Niger State, Nigeria," I find it to present an intriguing potential; however, there are areas that could be improved to enhance its quality.

Firstly, I suggest using proper unit conventions, such as changing "mg/l" to "mg/L" and "CFU/ml" to "CFU/mL."

I recommend consolidating the content of the "Aim and Objectives" section and "the objectives of this study" into a single paragraph at the end of the introduction for a clearer and more concise presentation of the research objectives.

Regarding the "Standard for Irrigation Water" table, it is suggested to include a legend in the table header indicating its number, and to cite it in the text before its first appearance for better reader comprehension.

A reorganization is needed in the "Materials and Methods" section, as it contains numerous subtopics and minimally extended paragraphs, which may hinder reader comprehension. A clearer and more logical structure is recommended to facilitate the reading and understanding of the methodological process.

It is suggested to include a map of the study area to provide a visual geographic reference, which can enhance understanding of the spatial context of the research.

In the Results section, it is essential to expand the discussion of findings and compare them with previous studies through the inclusion of additional references. This will help contextualize and validate the results obtained in this study.

In the Conclusions, it is important to avoid citing tables and focus on summarizing the main findings and their relevance in the overall context of the research.

Finally, incorporating more updated references in the text is recommended to support and strengthen the findings and discussions of the study.