

Title: EFFECT OF AGRICULTURE LAND USE PRACTICES ON SELECTED SOIL PROPERTIES AND MACRO-AGGREGATE STABILITY: A CASE STUDY OF COASTAL PLAIN SAND IN AKWA IBOM STATE, NIGERIA

This research article aimed to evaluate the soil properties giving special emphasize on macroaggregate soil fractions under three different land use systems. However, the article has not been properly written and is not in the form it can be recommended for publication. So, I suggest the authors to revised the entire manuscript and go for resubmission.

Comments for the authors:

➤ **Abstract:**

- What does 'Random soil and core samples'. Are they different? Please rewrite
- Is it -mean weight or 'means weight'. Please check
- A conclusive statement must follow the major findings of the study.

➤ **Introduction:**

- According's must be replaced with According and the following sentence is not correctly written. Please revise
- What does 'The author added mean?'
- macro and macro-aggregate formed. Please check this line.
- Citations is suggested for this statement. Each group differs from the other in properties such as binding agents, carbon and nitrogen distribution.
- most importance must be replaced with most important.
- Usually disintegration of macro-aggregates begins with breakdown and weakening of aggregate bonds, which were, as a function of soil properties Indices of aggregate according to Juriga and Simansky (2018) and Ogban et al. (2022), explained that stability of micro-aggregate is essential for improved macro aggregation. Meaning of this sentence is not clear at all.
- Therefore, there is need to increase stability of macro-aggregate that is more suitable in acid soils, Akwa Ibom State, Nigeria. Meaning of this line is also not clear at all
- The citations mentioned are too old. I suggest to check out some latest findings preferably from 2020 onwards.
- The whole introduction part needs to be thoroughly revised as at present it does not have much relevancy with the topic of study. Few literature/published results must also be added to strengthen the concept.
- I suggest the authors to check out this recent publication on Rubber and oil palm plantations- <https://doi.org/10.1016/j.teadva.2024.200119>

➤ **Materials and Methods:**

- latitude 4⁰40 and 5⁰15¹ N and Longitude 7⁰ 301 E and 8⁰151 E. Check the format of latitude and longitude.
- The evapotranspiration for at least 8 months in a year with the different contributing to high runoff and potentially high soil erosion. This has no meaning. Rewrite

- The sampling intensity, procedure and design is not mention and clear. Major revision required.
 - Only Five samples per land use is too less to support the findings.
 - The formulas under section Laboratory Analysis are not properly written.
 - Organic matter was determined by Walkley. Is it organic carbon or organic matter?
 - Indices of Macro-aggregate stability sections requires major revision.
 - The study area map showing the sampling points could further improve the paper quality.
 - The images of the land uses are suggested to be included to have a clear picture of the study area.
- **Results:**
- The values mentioned after the mean values are not required on the text.
 - The way in which the results are written must be improved, so as to make it understand clearly.
 - Tables data and the respective variables mentioned must be properly written.
 - The result section is very poorly written. Major revision is required.
- **Discussion**
- Discussion is not at all appropriate.
 - I suggest to rewrite with proper inference of the results obtained.

References:

- The references and citations format are suggested to follow the journal guidelines.