

# Review of: "Analyzing the Effects of Organic Amendments on Soil Erosion Dynamics: A Comprehensive Study on Application Methods and Timing"

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Potential competing interests: No potential competing interests to declare.

**Title:** Analyzing the Effects of Organic Amendments on Soil Erosion Dynamics: A Comprehensive Study on Application Methods and Timing

## Comments

The study aims to evaluate soil erosion components following the application of various organic amendments at different time intervals, assess the impact of different organic amendment application methods on soil erosion properties across various time points, and investigate the interaction between organic amendment types and their application methods concerning soil erosion properties. The article is generally well-written, technically sound, and in a well-scientific style. However, the manuscript needs to address certain critical points and look into grammatical and spelling errors before recommending it for publication.

Below are my comments:

### **Abstract:**

The authors have done a commendable job. It would enhance the abstract to include specific quantitative results to underscore that barberry biochar is the most effective in reducing erosion and sedimentation. A brief statement on how these findings could inform policy or agricultural practices is necessary.

### **Introduction:**

While the introduction effectively communicates the problem of soil erosion and its broad-ranging implications for agriculture, environmental conservation, and natural resource management, there are areas for improvement. The authors should make the transition between sections smoother to enhance the flow of the text. Emphasis should be placed on the unique contribution of the work. I also suggest the authors provide general conclusions derived from surveying previous literature at the end of the literature review.

### **Methods and materials:**

The methodology mentions using ANOVA and LSD tests. However, I didn't find anywhere the rationale behind choosing these specific statistical methods.

**Conclusion:**

I suggest the authors should enhance the conclusion section by integrating explicit recommendations derived from the current study's findings.