



Comparative analysis of jholmol and vermiwash as liquid fertilizers

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Introduction

This study compares the effects of Jholmol, Vermiwash, and their combination on onion crop growth and soil nutrition in Nepal. By assessing these organic liquid fertilizers, the research aims to identify the most effective method for enhancing both crop yield and soil health.

Research questions

- How do jholmol, vermiwash, and their combination affect onion crop growth?
- What are the impacts of these fertilizers on soil nutrient content?
- Is there a synergistic effect when combining jholmol and vermiwash?

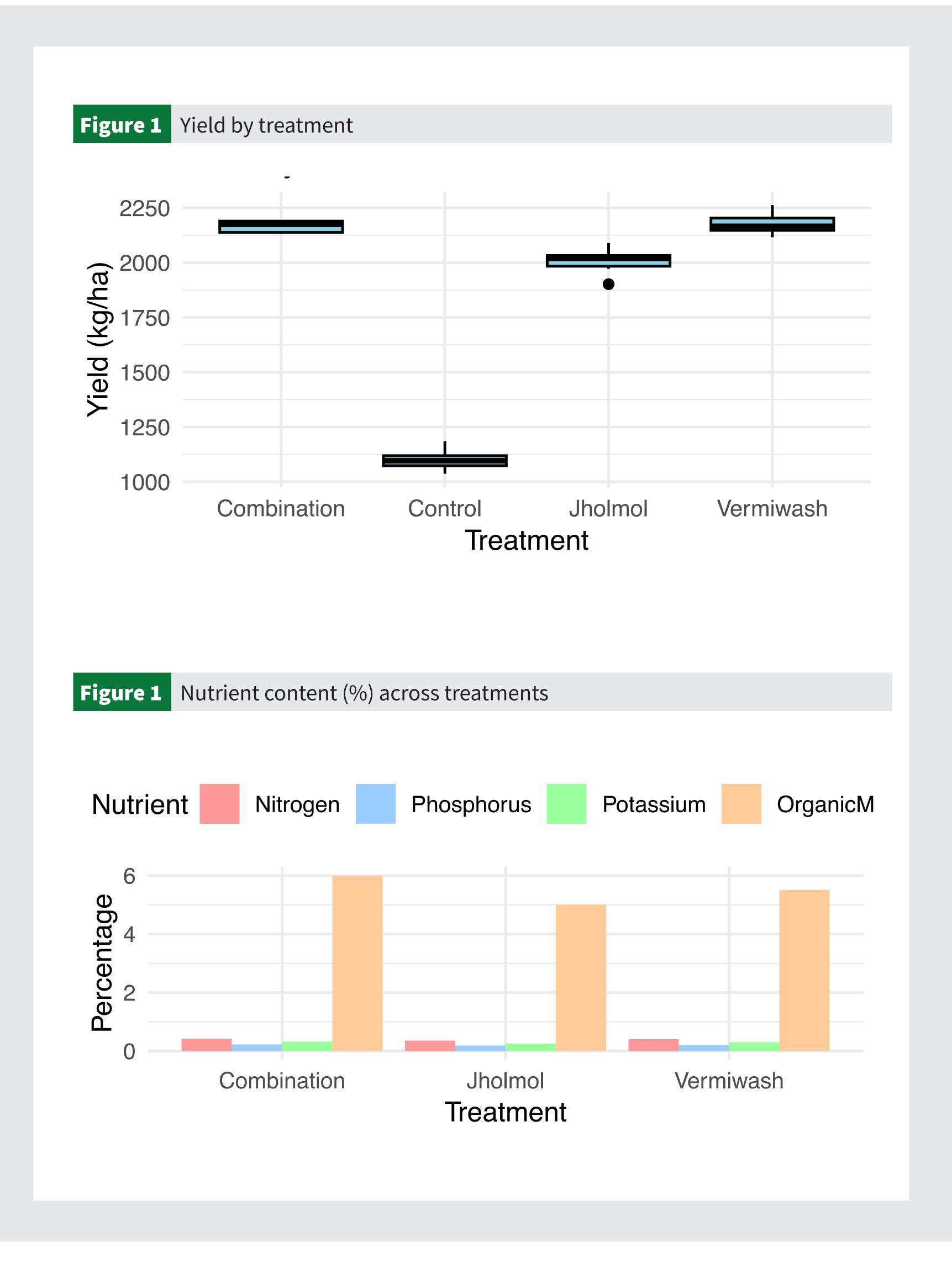
Methodology

A randomized complete block design was used with four treatments: control, Jholmol, Vermiwash, and their combination, applied bi-weekly. Growth parameters and soil nutrients were measured using ANOVA and Tukey's HSD tests to evaluate the effectiveness of each treatment.

Key findings

- Vermiwash resulted in the highest improvements in plant height, leaf area, biomass, and yield.
- The combination of jholmol and vermiwash significantly enhanced soil nutrients, particularly nitrogen, potassium, and organic matter.
- Results suggest vermiwash is best for immediate growth, while the combination offers long-term soil health benefits.







Conclusion

Vermiwash when used alone excels in promoting onion growth, but the combination of jholmol and vermiwash is superior for enhancing soil health. This study advocates for a balanced approach that considers both immediate agricultural productivity and long-term soil sustainability.

