

Review of: "Determination of Evapotranspiration and Crop Coefficients of Irrigated Legumes on Different Soil Types Using the FAO56 Approach"

John P.O. Obiero¹

¹ University of Nairobi

Potential competing interests: No potential competing interests to declare.

Review Report

I have read the manuscript, and my report is presented as follows.

General Comments

- Study significantly contributes to reliable determination of actual evapotranspiration, important in determination of crop water requirements necessary for irrigation water scheduling and management.
- The manuscript requires proofreading to eliminate grammatical errors.
- The paper is generally well-written, systematic, and with a clear flow of information. Chapter-by-chapter comments are as follows;

Title

The title seems to be OK; however, the study extends beyond just determination of the evapotranspiration crop coefficients, but also makes comparisons. An alternative word could be used to reflect the same.

Abstract

The abstract is OK, having most of the components; however, it could also highlight briefly the meaning of the findings.

Introduction

Line 1, last word should be "subsistence," not "subsistent."

Adequate and generally well referenced.

Materials and Methods

- Line 10, indicate the method used in determining hydraulic conductivity.
- Line 9, sentence commencing "The saturated hydraulic conductivityis not quite clear. Correct appropriately.
- Line 11, check the correctness of the sentence commencing "The saturated hydraulic conductivity."
- Line 13, what informed the choice of the hygrometer method in determination of soil texture?

- Section 2.2, the experimental design is elaborate, however, it would be a good idea to present the layout of the design diagrammatically for visual clarity.
- Line 12, highlight the reliability and limitations associated with remotely sensed agrometeorological data.
- Section 2.9 is short and general. It needs to be specific, indicating what ANOVA was used to do. Want specific means and variances are being referred to.

Results and Analysis

- Line 31, saturated hydraulic conductivity is a highly variable parameter with values obtained dependent on the method used and location of measurement. How was this taken into account?
- Comprehensive and well-written.

Conclusion

- Para 4, the last paragraph appears more of a recommendation than a conclusion.

REFERENCES

- Well-written. Consistent and complete.