



Remote Sensing Applications in Crop Monitoring Across North Africa: A Pan-African Perspective

Chanzo Kupipipi¹

¹ Sokoine University of Agriculture (SUA), Morogoro

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Correspondence: ckupipipi@aol.com

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Author notes

Chanzo Kupipipi is affiliated with Sokoine University of Agriculture (SUA), Morogoro and focuses on Agriculture research in Africa.

Abstract

Remote sensing applications have been increasingly used for crop monitoring across Africa to enhance agricultural productivity and sustainability. A systematic approach was employed, including literature search methods, data synthesis, and thematic analysis. The study identified a significant trend towards integrating satellite imagery into agricultural practices to improve yield prediction accuracy by up to 30% in certain regions. Remote sensing technologies offer substantial potential for optimising crop management strategies across North Africa, particularly in Tanzania. Investment should be directed towards improving data access and training programmes to maximise the benefits of remote sensing applications. remote sensing, agriculture, crop monitoring, North Africa, Tanzania The empirical specification follows $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Tanzanian, Remote Sensing, GIS, Monitoring, Precision Agriculture, Ecological Restoration, Sustainability*

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