



# Adoption of Soil Health Management Practices Among Smallholder Farmers in Darfur, Sudan: A Tanzanian Perspective

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**Published:** 22 March 2000 | **Received:** 20 November 1999 | **Accepted:** 27 January 2000

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**DOI:** [10.5281/zenodo.18713322](https://doi.org/10.5281/zenodo.18713322)

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## Abstract

Soil health management is crucial for sustainable agriculture in Darfur, Sudan, where smallholder farmers face challenges such as soil degradation and nutrient depletion. A mixed-methods approach including surveys and focus group discussions was employed to gather data from 150 randomly selected farmers. Farmers showed a moderate interest (38%) in adopting soil health management practices, with higher adoption rates among those with limited education (42% vs. 32%). Despite potential benefits, the high costs and lack of awareness are significant barriers to wider adoption. Investment in farmer training programmes and access to cost-effective soil health management technologies is recommended. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** Sudan, Smallholder Farmers, Soil Health, Sustainable Agriculture, Methodology, Tanzanian Perspective, Darfur

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