



# Sustainable Agriculture Practices in Northern Cameroon: Soil Fertility Improvement Through Crop Rotation Studies

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## Abstract

Sustainable agriculture practices are crucial for maintaining soil fertility in northern Cameroon, where smallholder farmers face challenges such as declining soil nutrient levels and erosion. Crop rotation was employed to assess its effectiveness in enhancing soil fertility. Farmer interviews, field observations, and soil analysis were conducted across different villages in northern Cameroon. A significant proportion (70%) of interviewed farmers reported improved soil health after adopting a two-year crop rotation cycle, with increased levels of organic matter and nutrient retention. The findings suggest that sustainable agricultural practices through crop rotation can significantly improve soil fertility in northern Cameroon, benefiting smallholder farmers' livelihoods. Government policies should support the promotion and adoption of sustainable agriculture practices, including financial incentives for farmers who implement effective crop rotation systems. Sustainable Agriculture, Soil Fertility Improvement, Crop Rotation, Northern Cameroon

**Keywords:** *Geographical Indicators of Africa, Soil Fertility Management, Smallholder Farming, Crop Rotation Studies, Sustainable Agriculture Practices, Terracing Techniques, Agroforestry Systems*

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