



Enhancing Soil Health Through Agroecological Practices in Ghana: A Case Study

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Abstract

Soil health in Ghana is critical for agricultural productivity, yet agroecological practices are underutilized. The study employed a mixed-method approach including farmer interviews and soil analysis to assess changes in soil organic matter content over two years. Farmer-reported yields increased by an average of 15% with the implementation of agroecological practices, while soil organic matter content rose by approximately 20%. Agroecological practices significantly enhance soil health and fertility in Ghanaian agricultural systems. Farmers should be encouraged to adopt these practices for sustainable agriculture development. agroecology, soil health, Ghana, farmer participation The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African soils, agroecology, biodynamics, soil biology, sustainable agriculture, organic farming, permaculture*

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