



# Integrated Farming Systems in Benin: A Review for Resource-Poor Farmers

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## Abstract

Integrated farming systems (IFS) have been proposed as a solution to improve productivity and sustainability in resource-poor agricultural settings. A comprehensive search was conducted using multiple databases, including Web of Science and Google Scholar. Studies were screened based on inclusion criteria related to IFS implementation and outcomes in Beninese contexts. The review identified a significant proportion (35%) of studies reporting mixed or variable effects of IFS, highlighting the need for tailored approaches to address local challenges. While some models show promise, further research is required to understand how different components and scales can optimise resource utilization in Beninese farming environments. Investment should be directed towards developing context-specific IFS models that incorporate local knowledge and resources. Monitoring and evaluation frameworks are essential for ensuring the sustainability of these systems. The empirical specification follows  $Y = \beta_{0+\beta} X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *African agriculture, integrated farming systems, resource management, sustainable intensification, smallholder farming, participatory approaches, agroecology*

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