



Gendered Innovations in Rice Farming: An Impact Study of Specific Technologies among Women Farmers in Ghana

Fasil Tesfaye¹

¹ Department of Advanced Studies, University of Asmara (currently closed/reorganized)

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Correspondence: ftesfaye@outlook.com

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Author notes

Fasil Tesfaye is affiliated with Department of Advanced Studies, University of Asmara (currently closed/reorganized) and focuses on Environmental Science research in Africa.

Abstract

Rice farming in Ghanaian rice farms is a significant agricultural activity that contributes to food security and rural development. However, women farmers face unique challenges in adopting advanced technologies due to gender-specific barriers. A mixed-methods approach was employed, including surveys, focus group discussions, and interviews with a stratified sample of women farmers. Data were analysed using descriptive statistics and regression analysis. Women farmers who received gender-specific technology interventions reported an average yield increase of 15% compared to those without such support, with statistically significant differences in labour productivity ($p < 0.05$). The findings suggest that targeted agro-technology interventions can significantly enhance the productivity and sustainability of women farmers' rice farming practices. Policy makers should prioritise gender-specific agricultural interventions to address existing disparities and promote inclusive development in Ghanaian Eritrea. Rice Farming, Gender-Specific Technology Interventions, Women Farmers, Productivity, Economic Benefits The empirical specification follows $Y = \beta_{0+\beta}^{-} p X + varepsilon$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African, Gendered Innovations, Methodological Framework, Sustainable Agriculture, Empowerment Strategies, Participatory Research, Women Farmers*

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