



Adoption Dynamics and Yield Performance Evaluation of Climate Resilient Maize Varieties Among Smallholder Farmers in Southern Mozambique: A Methodological Approach,

Nyongwe Zombo¹, Ndagata Ngwenya², Chifundo Mabvuto^{1,2}

¹ Pedagogical University of Mozambique (UP)

² Department of Advanced Studies, Catholic University of Mozambique

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Correspondence: nzombo@hotmail.com

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Author notes

Nyongwe Zombo is affiliated with Pedagogical University of Mozambique (UP) and focuses on Environmental Science research in Africa.

Ndagata Ngwenya is affiliated with Department of Advanced Studies, Catholic University of Mozambique and focuses on Environmental Science research in Africa.

Chifundo Mabvuto is affiliated with Pedagogical University of Mozambique (UP) and focuses on Environmental Science research in Africa.

Abstract

This study examines the adoption dynamics of climate resilient maize varieties among smallholder farmers in Southern Mozambique, focusing on yield performance outcomes. A mixed-method approach was employed, combining quantitative survey data with qualitative interviews. Statistical models were used for predictive analysis. Farmers who adopted climate resilient maize varieties reported an average yield increase of 20% compared to non-adoption groups in the period studied. The study highlights significant benefits from adopting these varieties, including improved crop resilience and higher yields under varying climatic conditions. Policy makers should incentivize farmers to adopt climate-resilient maize varieties through targeted subsidies and extension services. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Geographic, Climate Resilience, Smallholder Farmers, Mixed-Methods, Yield Analysis, Adaptation Models, Agricultural Extension*

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