



Adoption Rates and Yield Impact Analysis of Heat-Tolerant Rice Breeding Programmes in Mozambique's Coastal Zones

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Abstract

Mozambique's coastal zones are vulnerable to climate change, particularly high temperatures which affect rice yields. A combination of quantitative surveys for adoption data and qualitative interviews to explore perceptions and practices around the use of heat-tolerant rice varieties. Findings indicate that despite initial low adoption rates, community engagement led to significant increases in variety uptake over two years, with a proportion of 60% higher adoption rate observed in villages receiving targeted education compared to control areas. The study highlights the importance of tailored educational interventions for increasing heat-tolerant rice varieties' adoption and yields in coastal Mozambique. Government agencies should prioritise community-based agricultural extension services focusing on climate-resilient crop varieties like heat-tolerant rice to enhance food security in vulnerable regions. Heat-Tolerant Rice, Adoption Rates, Yield Impact, Mozambique Coast, Agricultural Extension

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