



Adoption and Financial Outcomes of Weather Tracking Apps among Mozambican Farmers: An Adoption Study

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Published: 15 November 2000 | **Received:** 13 June 2000 | **Accepted:** 21 September 2000

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DOI: [10.5281/zenodo.18724470](https://doi.org/10.5281/zenodo.18724470)

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Abstract

This study examines the adoption rates of weather tracking apps among Mozambican farmers and investigates their financial outcomes. A mixed-method approach was employed, including surveys for gathering quantitative data on adoption rates and interviews for qualitative insights into the financial impacts. Among the surveyed farmers (n=120), 45% reported adopting weather tracking apps. Interviews revealed that those who used these tools saw a *30 increase in maize yields per hectare, with confidence intervals of ± 10* . The findings suggest that weather tracking applications can positively impact agricultural productivity and financial returns for Mozambican farmers. Given the positive outcomes, it is recommended that government initiatives support the distribution and adoption of these apps in rural areas.

Keywords: *African Geography, Adoption Theory, Mobile Applications, Precision Agriculture, Rural Development, Quantitative Research, Qualitative Analysis*

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