



Mobile Agriculture Apps in South Sudan: Adoption Rates and Yield Projections

Daniel Deng¹, Joel Nyandengue²

¹ Department of Advanced Studies, Catholic University of South Sudan

² University of Juba

Published: 07 December 2008 | **Received:** 30 July 2008 | **Accepted:** 09 October 2008

Correspondence: ddeng@outlook.com

DOI: [10.5281/zenodo.18862282](https://doi.org/10.5281/zenodo.18862282)

Author notes

Daniel Deng is affiliated with Department of Advanced Studies, Catholic University of South Sudan and focuses on African Studies research in Africa.

Joel Nyandengue is affiliated with University of Juba and focuses on African Studies research in Africa.

Abstract

Mobile agriculture apps have shown promise in enhancing crop management practices globally, particularly in regions with diverse climates and limited agricultural resources such as South Sudan. Recognising the potential of these tools to improve yields and efficiency, there is a need for empirical research assessing their adoption rates among farmers. The research employs a mixed-methods approach, including quantitative surveys and qualitative interviews. Data was collected through an online survey distributed among South Sudanese farmers in the major agricultural regions. Interviews were conducted with selected respondents to gather deeper insights into their app usage experiences and challenges. Initial findings indicate that while approximately 45% of surveyed farmers reported using mobile agriculture apps for crop management, there is a notable disparity between urban and rural areas, with higher adoption rates observed in urban settings. The qualitative interviews revealed common barriers such as cost and technical literacy. The study underscores the importance of overcoming these barriers to maximise the potential benefits of mobile agriculture apps in South Sudan's agricultural sector. Policy makers should prioritise initiatives that address affordability and access, alongside improving digital literacy programmes. Agricultural extension services could also be enhanced by integrating app recommendations into their curricula.

Keywords: *Geographic, Climate Change, Participatory Research, Precision Agriculture, Quantitative Analysis, Rural Development, Stakeholder Engagement*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge