



# Adoption Dynamics of Drought-Resistant Maize Varieties Among Northern Kenyan Smallholder Farmers: A Longitudinal Study

Oscar Gikonyo Mutua<sup>1</sup>

<sup>1</sup> Department of Interdisciplinary Studies, Technical University of Kenya

**Published:** 09 June 2000 | **Received:** 17 April 2000 | **Accepted:** 20 May 2000

**Correspondence:** [omutua@hotmail.com](mailto:omutua@hotmail.com)

**DOI:** [10.5281/zenodo.18717453](https://doi.org/10.5281/zenodo.18717453)

## Author notes

*Oscar Gikonyo Mutua is affiliated with Department of Interdisciplinary Studies, Technical University of Kenya and focuses on Arts & Humanities research in Africa.*

## Abstract

Drought-resistant maize varieties have been introduced to combat water scarcity in northern Kenya's agricultural landscapes. A longitudinal study employed surveys, farmer interviews, and field observations over three years to assess farmer perceptions and practices towards drought-resistant maize varieties. Farmers exhibited varying levels of adoption, with a significant proportion using these varieties for at least two consecutive seasons, showing improved yields compared to traditional hybrids by up to 30% in some plots. The study underscores the need for sustained agricultural support and education programmes to facilitate broader acceptance and long-term benefits of drought-resistant maize varieties. Policy makers should prioritise extension services that promote adoption, while farmers benefit from improved seed supplies and climate-resilient farming practices. Drought-Resistant Maize Varieties, Adoption Dynamics, Smallholder Farmers, Northern Kenya

**Keywords:** *African, Geographical, Adoption, Resilience, Smallholder, Sustainability, Anthropology*

## 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](mailto: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](http://app.parj.africa)



Scan to visit [app.parj.africa](http://app.parj.africa)

**Open Access Scholarship from PARJ**

Empowering African Research | Advancing Global Knowledge