



Indigenous Crop Varieties and Food Security in Ethiopia: A Longitudinal Study

Zegeye Amsalu^{1,2}, Yared Abera³

¹ Department of Agricultural Economics, Jimma University

² Department of Animal Science, Gondar University

³ Department of Soil Science, Gondar University

Published: 03 November 2012 | **Received:** 28 July 2012 | **Accepted:** 21 September 2012

Correspondence: zamsalu@hotmail.com

DOI: [10.5281/zenodo.18953414](https://doi.org/10.5281/zenodo.18953414)

Author notes

Zegeye Amsalu is affiliated with Department of Agricultural Economics, Jimma University and focuses on Agriculture research in Africa.

Yared Abera is affiliated with Department of Soil Science, Gondar University and focuses on Agriculture research in Africa.

Abstract

Ethiopia faces significant challenges in food security due to climate variability and limited agricultural diversity. A longitudinal study employing mixed-methods approach including surveys, interviews, and field observations across ten selected regions. Indigenous crops showed an average annual yield increase of 15% compared to conventional varieties in drought-prone areas, with variability within $\pm 20\%$. Indigenous crop varieties contribute significantly to food security by maintaining yields despite climate fluctuations. Promote indigenous seed banks and farmer training programmes for sustainable agricultural practices. indigenous crops, food security, yield stability, longitudinal study, Ethiopia The empirical specification follows $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African agroecology, climate resilience, crop diversity, indigenous knowledge, mixed methods, food security, sustainable agriculture*

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