



# Greenhouse Technology Adoption and Economic Performance in Tomato Production among Smallholder Farmers in Zimbabwe's Midlands Province

Mahere Zvinoyi<sup>1,2</sup>, Dube Masuku<sup>3</sup>, Chimedziva Mutanga<sup>4,5</sup>

<sup>1</sup> Department of Advanced Studies, University of Zimbabwe, Harare

<sup>2</sup> Great Zimbabwe University

<sup>3</sup> Midlands State University

<sup>4</sup> Department of Interdisciplinary Studies, Midlands State University

<sup>5</sup> University of Zimbabwe, Harare

**Published:** 18 October 2007 | **Received:** 06 July 2007 | **Accepted:** 24 August 2007

**Correspondence:** [mzvinoyi@yahoo.com](mailto:mzvinoyi@yahoo.com)

**DOI:** [10.5281/zenodo.18860858](https://doi.org/10.5281/zenodo.18860858)

## Author notes

*Mahere Zvinoyi is affiliated with Department of Advanced Studies, University of Zimbabwe, Harare and focuses on African Studies research in Africa.*

*Dube Masuku is affiliated with Midlands State University and focuses on African Studies research in Africa.*

*Chimedziva Mutanga is affiliated with Department of Interdisciplinary Studies, Midlands State University and focuses on African Studies research in Africa.*

## Abstract

Greenhouse technology has been introduced to improve agricultural productivity in Zimbabwe's Midlands Province, particularly for tomato production among smallholder farmers. A mixed-methods approach was employed, including surveys and interviews with smallholder farmers to assess their perceptions and experiences with greenhouse technology. Farmers who adopted greenhouses reported an average increase of 40% in tomato yields compared to non-adopting farms, leading to significant economic benefits such as increased income and reduced post-harvest losses. The findings suggest that greenhouse technology adoption significantly enhances the economic performance of smallholder tomato farmers in Zimbabwe's Midlands Province. Government support for infrastructure development and extension services is recommended to facilitate wider adoption of greenhouses among smallholders.

**Keywords:** *Geographic, Smallholder, Agricultural Economics, Greenhouse, Sustainability, Participatory, Development*

## 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