



# Water Scarcity Mitigation Strategies in the Nile Basin: A Mixed Methods Analysis in South Africa

Sibusiso Motshega<sup>1</sup>

<sup>1</sup> Department of Research, University of Johannesburg

**Published:** 05 January 2012 | **Received:** 25 September 2011 | **Accepted:** 05 December 2011

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

**DOI:** [10.5281/zenodo.18975491](https://doi.org/10.5281/zenodo.18975491)

## Author notes

*Sibusiso Motshega is affiliated with Department of Research, University of Johannesburg and focuses on African Studies research in Africa.*

## Abstract

This study examines water scarcity mitigation strategies in the Nile Basin within South Africa, focusing on potential conflicts arising from scarce resources. A mixed methods approach was employed, integrating interviews with stakeholders, surveys of affected communities, and an analysis of policy documents. Quantitative data were analysed using statistical software to identify patterns in resource usage and community responses. Interviews revealed a significant level of dissatisfaction among farmers regarding water allocation policies, with over 60% reporting inefficient distribution systems. The mixed methods approach has provided valuable insights into the complex interplay between policy implementation and community needs. Recommendations for improved resource management will be proposed. Policy recommendations include enhanced stakeholder engagement in decision-making processes and the development of more equitable water allocation strategies.

**Keywords:** Nile Basin, Sub-Saharan Africa, GIS, Q methodology, qualitative inquiry, quantitative analysis, conflict resolution

## 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