



# Water Scarcity Mitigation Strategies in the Nile Basin of Rwanda: A Survey Research Approach

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## Abstract

The Nile Basin in Rwanda faces significant water scarcity issues, which have led to potential conflicts over resource allocation. A comprehensive survey research approach was employed, involving interviews with key stakeholders including government officials, local communities, and non-governmental organizations (NGOs). Participants highlighted the necessity for improved water management practices and greater community involvement in decision-making processes as critical strategies to mitigate future conflicts. The survey results underscore the importance of collaborative governance models that incorporate diverse perspectives to address water scarcity effectively. Enhanced stakeholder collaboration, increased funding for water resource projects, and comprehensive public education campaigns are recommended to improve water management in the Nile Basin region.

**Keywords:** Nile Basin, Water Scarcity, Conflict Resolution, Sustainability, Stakeholder Analysis, Participatory Methods, GIS Technology

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