



Water Scarcity Dynamics and Conflict Mitigation Strategies in the Nile Basin: An Analytical Study from an African Perspective

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Abstract

The Nile Basin is a critical region facing significant water scarcity issues exacerbated by climate change and population growth. Conflict over scarce resources has emerged, highlighting the need for effective mitigation strategies. The research employs a qualitative approach involving interviews with local communities, stakeholders, and policymakers. Data analysis includes thematic coding and comparative synthesis across different regions within the basin. Findings reveal that water scarcity disproportionately affects marginalized groups such as small-scale farmers and indigenous populations, necessitating tailored interventions to prevent conflict. The study concludes that culturally embedded mitigation strategies are essential for sustainable water management in the Nile Basin. These include community-based irrigation systems and enhanced dialogue forums among stakeholders. Recommendations suggest integrating traditional knowledge into modern water governance frameworks and promoting equitable resource distribution mechanisms to reduce conflict risks.

Keywords: *Nile Basin, Water Scarcity, Conflict Dynamics, Sustainable Development, Ethnography, Community-Based Solutions, Historical Context*

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