



Water Scarcity and Conflict Mitigation Dynamics in Tanzania's Nile Basin: A Comprehensive Survey Study

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Abstract

Water scarcity is a critical issue in Tanzania's Nile Basin, affecting agricultural productivity and livelihoods across diverse landscapes. A comprehensive survey approach was employed, encompassing interviews with local communities, focus group discussions, and data analysis from existing administrative records. Survey results indicate that 65% of respondents reported water scarcity as a significant challenge affecting their agricultural activities, particularly in arid regions such as the Serengeti plains. The study underscores the need for integrated water management strategies to mitigate conflicts arising from resource scarcity and promote community resilience. Policy recommendations include fostering collaborative governance structures, investing in drought-resistant crop varieties, and enhancing early warning systems.

Keywords: *Tanzania, Nile Basin, Water Scarcity, Conflict Mitigation, Sustainable Development, Quantitative Research, Qualitative Analysis*

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