



Water Scarcity Dynamics and Conflict Resolution Strategies in the Nile Basin of Kenya

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Abstract

Water scarcity in the Nile Basin of Kenya has been a persistent issue affecting agricultural productivity and socio-economic development. The research employs qualitative methods including semi-structured interviews with key informants, focus group discussions, and document analysis to understand the dynamics of water management in the region. Communities have developed innovative irrigation systems that utilise rainwater harvesting and solar-powered pumps, significantly reducing conflict over scarce resources. The proportion of households adopting these technologies has risen from 30% in to 45% by . The study underscores the importance of community-led initiatives in resolving water scarcity conflicts, highlighting the potential for technology adoption and policy support to enhance resilience. Government should provide financial incentives and technical assistance to promote wider adoption of sustainable water management practices among communities.

Keywords: *Water Scarcity, Nile Basin, Conflict Resolution, Sustainable Development, Social Capital, Qualitative Research, Community Empowerment*

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