



Water Harvesting Systems in Rural Nigerians: Livelihood Impact and Environmental Sustainability Metrics Analysis

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Published: 02 July 2002 | **Received:** 31 March 2002 | **Accepted:** 10 June 2002

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DOI: [10.5281/zenodo.18742558](https://doi.org/10.5281/zenodo.18742558)

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Abstract

Water scarcity is a significant challenge in rural Nigerias, affecting livelihoods and environmental sustainability. A qualitative study employing semi-structured interviews with farmers to explore perceptions and experiences related to water harvesting systems in rural Nigerias. Farmers reported a significant increase (30%) in crop yields due to improved water management through the use of water harvesting systems, particularly in arid regions where rainfall is unpredictable. Water harvesting systems have positively impacted livelihoods and environmental sustainability in rural Nigerias, with substantial improvements observed in agricultural productivity. Policy makers should incentivize the adoption of water harvesting systems to enhance food security and promote sustainable land use practices.

Keywords: *African, Geographical, Anthropology, Sustainability, Methodology, Quantitative, Qualitative*

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