



# Water Harvesting Technologies and Rural Livelihoods in Senegal: An Exploratory Study

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## Abstract

Water scarcity is a significant challenge in rural Senegal, affecting agricultural productivity and rural livelihoods. An exploratory qualitative study conducted through semi-structured interviews with farmers implementing water harvesting systems in three regions of Senegal. Farmers reported a 20% increase in crop yields, particularly in maize and groundnut crops, following the adoption of water harvesting technologies. Income growth among participating households was observed to be between 15-30%. Themes emerged around community support networks and government incentives facilitating technology uptake. Water harvesting technologies have shown promise for enhancing agricultural productivity and income in Senegalese rural areas. Government agencies should provide targeted subsidies and technical assistance to promote water harvesting systems, while encouraging the establishment of farmer-led initiatives to share best practices.

**Keywords:** *African Geography, Rural Development, Farmer Empowerment, Qualitative Research, Livelihoods Economics, Sustainability Studies, Case Study*

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