



Climate-Smart Irrigation in Northern Nigerian Villages: Adoption Rates and Economic Impacts

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Published: 02 January 2000 | **Received:** 31 August 1999 | **Accepted:** 27 November 1999

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DOI: [10.5281/zenodo.18724405](https://doi.org/10.5281/zenodo.18724405)

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Abstract

Climate change poses significant challenges to agricultural productivity in northern Nigerian villages, where climate-smart irrigation techniques can enhance resilience and sustainability. A mixed-methods approach combining quantitative surveys with qualitative interviews to gather data from a representative sample of villages across northern Nigeria. Climate-smart irrigation techniques offer substantial economic benefits to farmers in northern Nigerian villages, particularly in enhancing agricultural productivity and reducing water usage. Public policy should incentivize the adoption of climate-smart irrigation technologies through subsidies and extension services to maximise their impact on rural livelihoods.

Keywords: *Geographical Indicators of Sub-Saharan Africa, Climate Change Adaptation, Participatory Irrigation Management, Farmer Field Schools, Economic Impact Studies*

ABSTRACT-ONLY PUBLICATION

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