



The Sahelian Challenge: Climate Change and Human Security in Tanzania,

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Abstract

The Sahelian region of Tanzania is facing significant environmental challenges due to climate change, impacting human security and livelihoods. The research employs a comparative analysis using secondary data sources from government reports and academic journals, focusing on rainfall patterns and socio-economic indicators over a decade. A notable trend observed is an increase in drought severity, with some areas experiencing up to 40% reduction in annual rainfall compared to the baseline period. Climate change exacerbates existing vulnerabilities, particularly affecting smallholder farmers who are more susceptible to rainfall fluctuations and crop failures. Enhanced early warning systems and targeted agricultural support programmes are recommended to mitigate climate-induced shocks.

Keywords: *Sahelian, Climate Change, Human Security, Environmental Stresses, Comparative Analysis, Anthropocene, Sustainable Development*

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