



Climate Change and Human Security in Burkina Faso's Sahel Region: A Comparative Analysis

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Abstract

The Sahel region of Burkina Faso is experiencing significant climate variability, which has profound implications for human security. A comparative analysis of three villages within Burkina Faso's Sahel region was conducted using interviews, surveys, and participatory observation to assess local perceptions and coping mechanisms. Interviews revealed that climate variability has led to a 40% reduction in crop yields, with 75% of respondents indicating increased water scarcity affecting agricultural productivity. Climate change exacerbates existing vulnerabilities, particularly among the most vulnerable communities such as small-scale farmers and herders. Enhanced climate resilience programmes should prioritise early warning systems for weather events and support diversified livelihood strategies to mitigate future risks.

Keywords: *Sahelian, Climate Variability, Human Security, Adaptation Strategies, Anthropogenic Effects, Livelihoods, Migration Patterns*

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