

## **Impact of Extension Services Pastoralists' Vulnerability to Climate Change in Northern Guinea Savannah of Nigeria**

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**Abstract :** Pastoralists in Nigeria are situated in dry regions - where water and pasture for livestock are particularly scarce, as well as areas with poor availability of social amenities and infrastructure. This study therefore explored how extension service could be used to reduce the exposure of nomads to effects of seasonality, climate change, and the poor environmental conditions. The study was carried out in Northern guinea Savannah region of Nigeria because pastoralists have settled there in large numbers due to desertification and low rainfall in the arid regions. A multi-stage sampling procedure was used to arrive at the selection of two states (Kwara and Nassarawa) in the region. A total of 63 respondents were randomly chosen using simple random sampling. Focus group discussions and questionnaire were used to gather information while the data was analysed using content analysis. The facilities required by the sampled households are milking machine, cheese making machine, and preservatives to increase the shelf life of cheese. Whilst, the extension service required are demonstration on cheese making, training and seminars on animal husbandry. Additionally, livestock of pastoralists often encroach on farmers' plots which usually result in pastoralist-farmer conflicts. The study thus recommends diversification of economic activity from livestock to non-livestock related activities as well as creation of grazing routes to reduce pastoralist/farmer conflict.

**Keywords :** arid region, coping strategies, livestock, livelihood

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