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"Resilience of agricultural systems against crises"

Adaptive Strategies by Pastoralists to Cope with Drought Episodes in North Kordofan, Sudan

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Introduction

Recurrent drought episodes are not uncommon phenomena in many parts of Saharo-Sahelian areas in Africa. In drought affected areas natural resources base is very vulnerable and rural communities suffered such phenomena since the drought spell that hit the area since late sixties of the last Communities in these century. areas developed some indigenous knowledge to cope with the drought impacts. Land use pattern in the northern part of North Kordofan State of Sudan is considered as a real pastoral system, which is dominated by camels and dessert sheep herders. As the results of the recurrent drought spells that hit this arid Sahelian area, pastoralists face multitude of challenges that substantiate development of some adaptive strategies to cope with such environmental crisis.





North Kordofan, Sudan, Herd mobility

Objectives

This study is designed to scrutinize the adaptive strategies tailored hv pastoralists in Hamrat Elsheikh Administrative Unit in North Kordofan State. It is also intended to develop a model for proper management of the pastoral system in the drought stricken areas in the state. This model is expected to resolve problems within the system as shortage of pastures and range species resulted from drought episodes that jeopardize the natural pastures.

Data collection and analysis

Historical, descriptive and analytical approaches were followed via direct interviewing questionnaires with key informants randomly selected from pastoralists' villages in the study area. **Results**

61% of interviewees quoted the main adaptive strategies that prevail. These include herd mobility in search of water and pastures, keeping drought resistant animals by having a higher proportion of desert sheep, goats and camels than cattle, diversifying livestock species in resilience favor of to drought, synchronizing livestock breeding time with rainy season, and herd splitting with assistance from relatives. These strategies mitigate the impact of drought on pastoralists' life. They have boosting-up also contributed in livestock populations, pave the way for pastoralists to survive and sustain their animal resources. Some shortcomings were observed by pastoralists like the lack of some extension and veterinary services and lack of dispersion of seeds of range species.



Strengthen	ing the	se a	daptiv	e strat	egies
prevailed	in the	e st	udy	area	could
diminish	vulnera	ability	0	f pa	storal
resources	which	is	key	aspect	of
reducing drought risks.					

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