

**Contribution of Agricultural Marketing Cooperative Society on Climate Change
Adaptation: Evidence from Mlimani Ngarashi AMCOS**

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Abstract

Climate change is one of the greatest environmental and human development challenges facing the world development sectors including Cooperative development. It threatens to large extent the human health in view to food insecurity, malnutrition and hinders sustainable natural resource conservation for enhanced agriculture productivity. However, changes of temperature, land forms degradation, rainfall variability resulted from human development activities including crop production appears to increase land use conflicts on resource use. Agriculture Rural Cooperative development sector appears to be highly affected with these changes. The conflicts aggravate the socio-economic problems including land scarcity due to uncontrolled urbanization impacts on environment, land degradation, loss of biodiversity, infrastructures depletions and water scarcity. However, there is limited knowledge to date on understanding the symbiotic relation of climate impacts on agriculture cooperative development sector. This paper provides empirical data with evidence based to show the linkage and impacts of climate change and rural agriculture cooperative development sector. It considers Agriculture and Marketing Cooperative Society (AMCOS) to provide the evidence for learning. It highlights the historical development of the sector, activities and how these activities influence climate and therefore impacts on cooperative development. The existing nexus between biodiversity loss, ecosystem function, cooperative services and human wellbeing, their impacts and challenges are documented. Likely, institutional and policy aspects, member-based climate adaptation capacity are envisaged. Future risks and hotspots for climate change interventions in respect of AMCOS operations are highlighted to provide further lesson of experience in context specific and may be applied to other agriculture cooperative development sector in Sub-Saharan Africa with the same context.

KEY WORDS: Agriculture and Marketing Cooperative Society, Rural, Agriculture, Urbanization, Food Insecurity, Climate Change