

## ABSTRACT

The paper analyzed agricultural production potential in light of climate variability in Oljoro-orok division in Kenya. The objective of the paper was to evaluate the available opportunities and assess the challenges that may limit agricultural production in light of climate variability threats in the division. Climate variability variables such as severe drought and frequent flooding has caused a lot of suffering to human being and animals in the world today due to hunger, increased cases of diseases and destruction of their habitats. Households' adaptations and responses to climate change cannot be seen in isolation from the state in which they operate in. External adaptations practices fail to reflect local needs and priorities, leading to low adoption of external interventions. The study explored the strength, weaknesses, opportunities and threat in Oljoro-orok division in place to adapt to climate change using a SWOT analysis. SWOT is an acronym for Strengths, Weaknesses, Opportunities and Threats. A SWOT matrix was developed using matching and conversion method and used in the analysis of the adaptive capacity of the division. The study found that there are strengths and opportunities which when well utilised will help counter the weaknesses and threats and adapts to climate change and increase agricultural production.

**Keywords:** Agriculture, climate variability, households, adaptations' and responses, adaptive capacity.