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RECEIVED 08 September 2022
ACCEPTED 26 June 2023
PUBLISHED 04 April 2024

CITATION
Maiwashe Tagwi A and Khoza KH (2024)
Socioeconomic determinants of modern
climate change adaptation of small-scale
vegetable farmers in Bohlabela District,
Mpumalanga Province. *Front. Clim.* 5:1039915.
doi: 10.3389/fclim.2023.1039915

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Socioeconomic determinants of modern climate change adaptation of small-scale vegetable farmers in Bohlabela District, Mpumalanga Province

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Climate change significantly impacts small-scale agriculture, with limited adaptation capabilities due to lack of access to advanced science and technology. Traditional methods are ideal, but modern adaptations require significant financial investment, affecting the smallholder under-resourced agricultural sector's economic activities. The study analyzed climate change adaptation drivers among small-scale vegetable farmers, using a representative sample of 244 farmers from four villages through face-to-face interviews and semi-structured questionnaires. Using the Logistic regression model, the results showed resources (extension services), institutional (association membership) and societal influence (farm produce theft, and animal trespassing in the farming plots) to be associated with the use of modern climate change adaptation measures in the study area. The study recommends expanding extension services, strengthening community policing, creating community grazing guidelines, and training farmers on climate change causes, social cohesion, and mitigation strategies to address farm produce theft and animal trespassing. The study contributes new knowledge to the discourse of climate change adaptation by providing empirical evidence pointing out the need to consider critical non-climate factors for farmers when making climate change adaptations interventions in the smallholder farming sector.

KEYWORDS

small-scale, modern climate change adaptation, Mpumalanga Province, South Africa, Bohlabela District

1 Introduction

Climate change is a major global threat to all economic industries; however, the agricultural industry is the most vulnerable as it directly depends on rainfall and temperature. Climate change negative effect on agriculture has been widely reported globally (Ahsan et al., 2020; Abbas and Maye, 2021; Ali-E-Mokhtar et al., 2022). Food supply and food security are immensely threatened by climate change (Van Eiten et al., 2019; Pawlak and Kolodziejczak, 2020). The biggest challenge at hand is that small-scale farmers are highly under-resourced and yet play a pivotal role in food security. Bagstad et al. (2020) reported the

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