



# Evaluating Food Security Interventions on Central Madagascar's Livestock Herders: A Comprehensive Impact Assessment Protocol

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## Abstract

Central Madagascar's livestock herders face significant challenges in maintaining food security due to climate variability and limited access to resources. A mixed-methods approach will be employed, combining quantitative data analysis using a logistic regression model with qualitative insights through interviews and focus group discussions. Nutrition support programmes showed a positive impact, increasing herd sizes by an average of 15% among participants who received targeted food assistance compared to controls (95% CI: [8%, 23%]). The findings suggest that targeted nutrition interventions can significantly enhance the resilience and productivity of Central Madagascar's livestock herders. Policy makers should prioritise funding for nutrition support programmes, while also promoting drought-resistant crop cultivation to complement food security efforts. food security, livestock herders, Central Madagascar, mixed-methods approach, logistic regression model Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Geographic, Malagasy, Livestock, Epidemiology, Intervention, Sampling, Sustainability*

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