



Traditional Ecological Knowledge in Conservation Practices: An Intervention Study in Tanzania

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Abstract

Traditional ecological knowledge (TEK) has been recognised for its potential in guiding sustainable management of natural resources. A mixed-methods approach combining qualitative interviews with quantitative surveys to evaluate TEK usage and its effectiveness in managing wildlife conflicts. Interview data indicated that TEK practices reduced human-wildlife conflict by 35% compared to conventional methods, suggesting a significant positive impact on biodiversity conservation. Traditional ecological knowledge (TEK) plays a crucial role in effective wildlife management and can be integrated into existing conservation strategies for enhanced outcomes. Policy makers should prioritise TEK integration into conservation programmes by providing training and recognition to local communities, ensuring equitable benefits from conservation efforts. Traditional Ecological Knowledge (TEK), Conservation Practices, Wildlife Management, Tanzania The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African Geography, Conservation Biology, Ethnobotany, Indigenous Knowledge Systems, Participatory Monitoring, Sustainable Development, Traditional Ecological Knowledge*

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