



Community-led Conservation Initiatives Enhance Ecosystem Health in Eastern Kenya Fisheries

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Abstract

This report examines community-led conservation initiatives aimed at enhancing ecosystem health in Eastern Kenyan fisheries. A comprehensive survey method was used to collect data from fishermen and local communities. Statistical analysis was applied using a t-test for significance testing. Significant improvement in fish population diversity ($p < 0.05$) was observed, indicating enhanced ecosystem health post-conservation efforts. The community-led conservation initiatives have been effective in improving the health of Eastern Kenyan fisheries ecosystems. Further research should be conducted to understand long-term impacts and sustainability of these initiatives. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Kenya, Fisheries, Conservation, Ecosystems, Sustainability, Community Engagement, Livelihoods

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