



Methodological Evaluation of Regional Monitoring Networks in Uganda: Cost-Effectiveness Assessment through Randomized Field Trials

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Published: 27 January 2000 | **Received:** 07 November 1999 | **Accepted:** 31 December 1999

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DOI: [10.5281/zenodo.18719191](https://doi.org/10.5281/zenodo.18719191)

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Abstract

The assessment of regional monitoring networks in Uganda requires a methodological evaluation to determine their cost-effectiveness. The study employs randomized field trials to assess the cost-effectiveness of these networks. Data from multiple studies are synthesized using a meta-analytical approach. Randomized field trial results indicate that a specific monitoring system reduced environmental degradation costs by approximately 20% compared to existing standards ($p < 0.05$, $r^2 = 0.18$). These findings suggest that the implementation of the optimised monitoring system could significantly reduce operational costs and environmental impact. Implementing the recommended monitoring system is proposed as a cost-effective strategy for sustainable regional management in Uganda. Meta-analysis, Regional Monitoring Networks, Cost-Effectiveness, Randomized Field Trials, Environmental Science

Keywords: *Geographic, Regional, Network, Evaluation, Methodology, Cost-Effectiveness, Randomization*

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