



Integrated Watershed Management in Seychelles: A Review for Sustainable Agriculture and Water Supply Systems

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Abstract

Integrated Watershed Management (IWM) in Seychelles aims to enhance sustainable agriculture and water supply systems. A comprehensive systematic literature review was conducted using databases such as Web of Science and Scopus. Studies from 1980 to 2010 were included, focusing on IWM applications in Seychelles' agricultural landscapes. Findings indicate a significant proportion (75%) of reviewed studies highlighted the effectiveness of IWM practices in improving soil health and water retention. IWM in Seychelles is effective but requires tailored implementation strategies to address specific environmental challenges. Recommendation for policymakers includes integrating local knowledge into IWM planning, enhancing community participation, and monitoring system performance regularly. The empirical specification follows $Y = \beta_{0+\beta} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: Sahelian, agroecology, resilience, hydrology, sustainability, ecosystem services, participatory approaches

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