



# Aquaculture Dynamics and Food Security in Coastal West Africa: A Systematic Review

Karine Ndikou<sup>1</sup>, Jean François Raffin<sup>2</sup>, Huguette Alixini<sup>3,4</sup>

<sup>1</sup> Seychelles Business School

<sup>2</sup> Department of Crop Sciences, Seychelles Business School

<sup>3</sup> Department of Animal Science, Seychelles Business School

<sup>4</sup> Department of Crop Sciences, Seychelles National Statistics Office

**Published:** 15 August 2013 | **Received:** 12 April 2013 | **Accepted:** 19 June 2013

**Correspondence:** [kndikou@yahoo.com](mailto:kndikou@yahoo.com)

**DOI:** [10.5281/zenodo.18991983](https://doi.org/10.5281/zenodo.18991983)

## Author notes

*Karine Ndikou is affiliated with Seychelles Business School and focuses on Agriculture research in Africa.*

*Jean François Raffin is affiliated with Department of Crop Sciences, Seychelles Business School and focuses on Agriculture research in Africa.*

*Huguette Alixini is affiliated with Department of Animal Science, Seychelles Business School and focuses on Agriculture research in Africa.*

## Abstract

Coastal West Africa, including Seychelles, is a region with significant aquaculture potential but faces challenges in achieving sustainable food security through this sector. A comprehensive search strategy was employed using electronic databases such as OVID Medline and Web of Science. Studies published between and were included, focusing on aquaculture practices and their effects on food security indicators. Data analysis involved thematic synthesis across studies. The review identified a trend towards increased fish farming productivity in Seychelles, with an average annual growth rate of 4% over the last decade. Aquaculture has become a critical component in addressing food security challenges, particularly for small-scale farmers who rely on aquatic resources as a supplementary income source. Policy makers should support extension services to improve aquaculture practices and market access for local producers. Enhanced education programmes targeting climate resilience are also recommended. The empirical specification follows  $Y = \beta_{0+\beta} X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *Geography, Africa, Nutrition, Sustainability, Policy, Ecosystems, Climate*

## ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

**Email:** [info@parj.africa](mailto:info@parj.africa)

Request your copy of the full paper today!

## SUBMIT YOUR RESEARCH

**Are you a researcher in Africa? We welcome your submissions!**

Join our community of African scholars and share your groundbreaking work.

**Submit at:** [app.parj.africa](http://app.parj.africa)



Scan to visit [app.parj.africa](http://app.parj.africa)

**Open Access Scholarship from PARJ**

Empowering African Research | Advancing Global Knowledge