



# Aquaculture Dynamics and Food Security Dynamics in Coastal West Africa: A Ghanaian Perspective

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## Abstract

Coastal West Africa, including Ghana, faces challenges in aquaculture development to support food security. A mixed-methods approach combining quantitative data analysis with qualitative interviews to explore socio-economic factors impacting aquaculture productivity. Aquaculture production has shown a moderate growth trend, increasing by approximately 5% annually over the past decade. The study highlights significant disparities in aquaculture development between different regions of Ghana and suggests targeted interventions to enhance food security. Investment in infrastructure and improved access to markets are recommended for boosting aquaculture productivity. The empirical specification follows  $Y = \beta_{0+\beta}^{-} p X + varepsilon$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *African geography, aquaculture development, food security, mixed methods, coastal ecosystems, sustainability, socio-economic analysis*

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