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Newsletter

Technical Efficiency and Environmental Sustainability of Shrimp Farming in Malaysia

The Situation



The **profitability** of shrimp farming operations depends on the **productivity** of the shrimp farms

(iv)

consists of 2 components: **technical efficiency** (TE) and allocative efficiency (AE)



Shrimp farming is a **high risk economic activity** mainly due to disease outbreaks



It can be achieved by developing and adopting new technologies and improving the **economic efficiency** (EE) of the farming operations

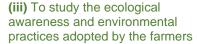
(v) TE analysis

has long been viewed as a valuable aid in evaluating and selecting farming strategies

Research Objectives



(i) To examine the productivity of shrimp farms in Malaysia





(ii) To identify the socio-economic factors influencing the efficiency of the shrimp farms

(iv) To discuss policy implications

Our Approaches



- (i) Primary data collection (questionnaire surveys)
- (ii) Stochastic production frontier approach (SPF)
- (iii) Likert-scale statements

Some Interesting Findings

Production: The shrimp industry is highly competitive

Environment: Shrimp farmers are concerned about the effects of pond water on the environment

Trade: The industry has the potential to expand the exports of food products in Malaysia

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