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Newsletter

Technical Efficiency and Environmental Sustainability of Shrimp Farming in Malaysia

The Situation

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

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

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

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

(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

(iii) To study the ecological awareness and environmental practices adopted by the farmers

(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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