

Project Title: Determining Technical Efficiency of Small Scale Fisheries by Using Data Envelopment Analysis (DEA) method

Name of Project Leader : Mr. Ismail b. Abd. Latif
Name of Project Members : Ms. Norzalila bt. Kasron
Mr. Mahfoor Harron
Mrs. Nolila bt. Mohd. Nawi

Department/ Laboratory of : Agribusiness and Information Systems
Faculty/ Institute of : Faculty of Agriculture
Universiti Putra Malaysia, 43400 UPM,
Serdang, Selangor, Malaysia

Tel : 03- 8946 4127
E-mail : ismaill@econ.upm.edu.my
Category : Applied Research
Cluster : Agriculture

Abstract

The general objective of this study was to determine the technical efficiency and the determinants of inefficiency of the small-scale fisheries in Labuan. Eighty fishermen with outboard engines in 7 villages were chosen and surveyed between April and October 2003. The cost components of fishing operations and the socio-economic data of the fishermen were collected. The data were analyzed via the DEA methodology. Results show that the mean technical efficiency was 0.905, the minimum was 0.584 and the maximum was 1. Results also indicate that the returns to scale showed an increasing trend. The study indicates that most of the fisherman has a high level of technical efficiency. The government should continue providing fuel subsidies in order to help them to increase their catch. Other activities such as fish processing and eco- tourism that can generate extra earning should also be promoted.