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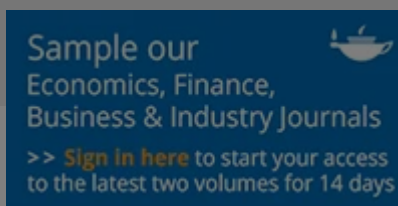
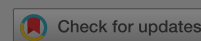
Original Articles

Analyzing the variations in cost-efficiency of marine cage lobster aquaculture in Vietnam: A two-stage bootstrap DEA approach

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ABSTRACT

This study examines the cost efficiency of marine cage lobster farms in Vietnam using a two-stage bootstrap DEA approach. The first stage evaluates the technical efficiency, and the second stage evaluates the allocative efficiency. The results show that the technical efficiency scores were relatively high, while the allocative efficiency scores were relatively low. The regression analysis indicates that the presence of other factors, such as the size of the farm, the type of equipment used, and the experience of the farmers, significantly impacts the cost efficiency of the farms.

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KEYWORDS: Bootstrap DEA | cost-efficiency | marine cage lobster aquaculture | truncated regression

Notes

Fish bycatch or trash fish used to feed lobster in Vietnam is low-valued fish such as snails, green mussel, clams, small swimming crabs, lizard fish, red big-eye, and so on.

Maintenance costs include the cost of repairs, maintenance to equipment and cages.

The information of interest has not been collected in this study because the lobster farmers considered it as a sensitive problem and were not ready to share. Therefore, this 5% for fixed costs does not include interest.

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