

## ABSTRACT

In general, the aquaculture community in Demak Regency is a dumbo catfish farming business with a traditional cultivation pattern that still rely on habits in using its inputs. The purpose of this study is to analyze the efficiency (efficiency technical efficiency, price efficiency and economic efficiency) of the African catfish farming business in Indonesia Demak Regency. Efficiency in production is the ratio of output and input relates to achieving maximum output with a number of inputs, This means that if the output ratio is large, then the efficiency is said to be higher. Besides that also to analyze the revenue and expenditure of catfish farming business the dumbo. Sampling was done by multistage sampling. A total of 120 Fisheries Households (RTP) for African catfish farming were taken as samples. Data analysis using Frontier Analysis with Maximum Likelihood Method (MLE) using Frontier software version 4.1c. The estimation results show that the majority of catfish farming dumbo has achieved more than 90% technical efficiency. Average technical efficiency of 0.935 (0.804 - 0.983). The value of price efficiency is 22,961, and the value of efficiency the economic value is 21.47. Technical Efficiency and Economic Efficiency are not equal to 1 is not efficient yet, so it is still possible to add or reduce its input allocation. African catfish farming business is still enough profitable, as indicated by the R/C ratio of 1.19. In order to increase income, the African catfish farming community should allocate inputs as needed. Fish farming business African catfish in Demak can still be developed, but there needs to be guidance from government, such as cultivation training so that the inputs used are more efficient.

Keywords: Production, Efficiency, Frontier Analysis, Demak, Indonesia