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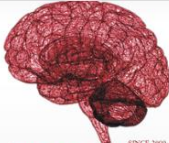
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 Abd. Rahim, Diah Retno Dwi Hastuti and Ulifah Syam

**Abstract:** Although, the policy of infrastructure support program from the local government of Barru district South Sulawesi province Indonesia in the form of fishing gear and outboard machine has been done but the change of income of catching business has not sufficient for household economy needs of small-scale fisherman. The purpose of this article is to estimate the small-scale fisherman's decision in selecting capture technology (fishing gear and outboard engine power) in Indonesia using model estimation model logit equation. The type of research used is explanatory method. The findings indicate that small-scale fisherman decision in choosing fishing gear is positively influenced by the income of catching business and the number of members covered and negatively by regional differences while the age of fisherman, education, side occupation and regional differences have no significant effect. Another case of fisherman decision in choosing the power of outboard engines is positively affected by the income of catching businesses and the number of members who are covered and negatively by different regions. While the age of fishermen, the number of family members, side jobs and regional differences have no significant effect.

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**Estimation Comparison of Small-Scale Fisherman Decision on Choice Fishing Gear and Outboard Engine Power**  
<sup>1</sup>Abd. Rahim, <sup>2</sup>Diah Retno Dwi Hastuti and <sup>3</sup>Ulifah Syam  
<sup>1</sup>Development Economic Study Program, Faculty of Economics,  
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**Abstract:** Although, the policy of infrastructure support program from the local government of Barru district South Sulawesi province Indonesia in the form of fishing gear and outboard machine has been done but the change of income of catching business has not sufficient for household economy needs of small-scale fisherman. The purpose of this article is to estimate the small-scale fisherman's decision in selecting capture technology (fishing gear and outboard engine power) in Indonesia using model estimation model logit equation. The type of research used is explanatory method. The findings indicate that small-scale fisherman decision in choosing fishing gear is positively influenced by the income of catching business and the number of members covered and negatively by regional differences while the age of fisherman, education, side occupation and regional differences have no significant effect. Another case of fisherman decision in choosing the power of outboard engines is positively affected by the income of catching businesses and the number of members who are covered and negatively by different regions. While the age of fishermen, the number of family members, side jobs and regional differences have no significant effect.

**Key words:** Small-scale fishermen decisions, fishing gear, outboard engine power, estimation model, explanatory, regional

**INTRODUCTION**  
 Small-scale fishermen as small fisheries sub-sectors (Lopes and Begossi, 2011; Gebremedhin *et al.*, 2013) are characterized as poor and marginalized (Ofori-Danson *et al.*, 2013) but these small-scale fisheries support livelihoods and welfare more than 500 million people worldwide and as an important source of income in developing countries where millions of poor people (2008) small-scale fishermen (Bolaky, 2006; Salas and Charles, 2008). The survival of small-scale fishermen in the Western coastal areas of Barru district in fulfilling their living needs in uncertain conditions due to seasonal changes (catching and famine). The existence of the season resulted in a change in catch production (Rahim *et al.*, 2019) which resulted in a decrease in the income of fishermen in the business and household income (Rahim *et al.*, 2018) and expenditure on

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