

# BUKTI KORESPONDENSI ARTIKEL JURNAL\_SHORTFIN SCAD

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RESEARCH ARTICLE

## Length-weight relationship, body condition, and fishing gear selectivity of shortfin scad (*Decapterus macrosoma*) landed in Banjarmasin fishing port, Indonesia

Ahmadi

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Citation: Ahmadi 2020 - Length-weight relationship, body condition, and fishing gear selectivity of shortfin scad (*Decapterus macrosoma*) landed in Banjarmasin fishing port, Indonesia - Fish. Aquat. Life 27: 113-124

**Abstract:** The present study provides scientific information on the growth pattern and relative condition of shortfin scad, *Decapterus macrosoma* Bleeker landed in Banjarmasin fishing port, Indonesia. A total of 313 individual scad comprising 178 males and 135 females ranging from 152 to 225 mm total length and from 37 to 110 g weight were investigated. The body shape of both males and females showed isometric growth patterns indicating that all body dimensions grew at the same rate. The regression coefficient was significantly different between the sexes. The total length (TL), body weight (W), body depth (BD), W/TL, and BD/TL ratios and condition factors of the females were comparatively higher than those of males. The highest percentage of the catch was between 180 and 189 mm TL (32.59–40.45%) and 50 and 59 g W (20.65–21.79%). The relative condition factor values ranged from 0.799 to 1.433, which reflected the good condition of the fish samples. The estimated length at first capture ( $L_{\infty}$ ) and selection factor values were 180 mm and 3.54 for males and 185 mm and 3.64 for females. In the present work, the purse seine was considered to be a male-biased gear, with a sex ratio of 1.3 : 1. The outcomes of this research could be useful for sustainable pelagic fisheries management and for developing precautionary measures to prevent the overexploitation of this species.

**Keywords:** *Decapterus macrosoma*, Isometric, Masallima Sea, Banjarmasin fishing port

### Introduction

The shortfin scad *Decapterus macrosoma* Bleeker is a commercially important pelagic fisheries resource that beneficially supports food supply and the fish processing industry, and it is also fish bait for the tuna longline fishing industry (Asni et al. 2019). It belongs to the family Carangidae, which is in high market demand locally as it is less expensive than other pelagic fishes. At least four species of scad mackerel inhabit Indonesian waters, i.e., *Decapterus kurroides* Bleeker, *Decapterus macarellus* (Cuvier), *Decapterus russelli* (Rüppell), and *Decapterus macrosoma* Bleeker (Atmaja and Sadhotomo 2005). These fishes are mostly caught with purse seines, gill nets, ring nets, mini-trawls, and rod and line fishing (Ohshimo et al. 2014, Narido et al. 2016). The scad fishery is very important in Indonesia, since it employs large numbers of fishers and takes a significant proportion of the total catch. However, high demand

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