

**ABOVEGROUND BIOMASS OF MANGROVE FOREST IN SULAMAN LAKE
FOREST RESERVE, TUARAN SABAH**

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ABSTRACT

This study emphasizes the quantifying of aboveground biomass of mangrove forest in Sulaman Lake Forest Reserve, Tuaran Sabah. The objectives of this study are to quantify aboveground biomass of live mangrove trees and standing dead mangrove trees and to quantify the total aboveground biomass in mangrove forest. A total of five transect lines have been established within the study area covering 0.23 hectares. The activity such as forest inventory was done in the study area. In this study, aboveground biomass was identified by quantifying biomass of live trees and biomass of standing dead trees. An allometric equation was used for estimating aboveground biomass by using the value of diameter at breast height (DBH) of a mangrove tree. This study was conducted starting from February 2016 until December 2016. This study found that the total biomass was 1.97 t ha^{-1} . It consists of biomass of live mangrove trees in value of 1.97 t ha^{-1} and biomass of standing dead mangrove trees in value of $4.32 \times 10^{-3} \text{ t ha}^{-1}$.