

**THE DENSITY AND DIVERSITY OF BIRD POPULATION IN NATURAL FOREST
MANAGEMENT, SEGALIUD LOKAN FOREST RESERVE,
KTS PLANTATION SDN. BHD.**

NAME: AHMAD TARMIZI B. ABD RAHIM

SUPERVISOR: DR. JEPHTE SOMPUD

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ABSTRACT

There are a lot of intensive studies conducted on birds in the past years, but still lacking information on bird populations in Malaysia, especially in Natural Forest Management. This study emphasizes on the bird population survey with the aim to studying the density of bird species density and diversity of bird species in Natural Forest Management, KTS Plantation Sdn. Bhd. Four transect lines that are 500 m and has 11 sampling points were used for 21 days, from 6:00 am to 11:00 am daily. Survey is done in order to identify the particular plant ecology of the forest was created using (10 m wide x 20 m long) x 5 = 0.1 ha plot. Data were analyzed and shown by Shannon-Weiner Index (H') and Simpson's Index (1-D), and to identify the density of birds spesies DISTANCE 6.2 software was used. This study site shows the diversity of bird species is high ($H' = 3,251$; $1-D = 0.947$) and density of bird species is 5.2924 (SE = 1.4165; AIC = 1303.30; % CV = 26.76). Forty-four species of birds belonging to 23 different families have been identified and the number of individual birds observed was 303. Trichastoma rostratum, Anthracoceros albirostris, Bucernos rhinoceros and Copsychnus Strickland is among the highest recorded species in the study area. Overall, the survey of bird populations in Natural Forest Management, KTS Plantation Sdn. Bhd show the diversity of bird populations can accommodate the density of birds in the area.