

**DIVERSITY AND DENSITY OF MAMMALS POPULATION IN INDUSTRIAL TREE  
PLANTATION (ITP), SEGALIUD LOKAN FOREST RESERVE,  
KTS PLANTATION SDN. BHD.**

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**ABSTRACT**

This study was carried out in the compartment 9 which was an area of industrial timber plantations (ITP) in KTS Plantation Sdn. Bhd., Sandakan. The objective of this study was to determine the diversity and density of mammals found in the area. The method use in this study was line transect survey. For data analysis, Shannon-Weiner diversity index, Simpson's diversity index. The King's Census population density have been used to determine the diversity and density of mammals. There were 31 mammals individual that have been successfully recorded. The 31 mammals are the 11 species of mammals have been identified, namely *Viverra zibetha*, *Hylobates muelleri*, *Callosciurus prevostii*, *Lariscus hosei*, *Sundasciurus lowii*, *Ratufa affinis*, *Sundasciurus hippurus*, *Rattus tiomanicus sabae*, *Tupaia glis*, *Tupaia picta* and *Tupaia minor*. *Callosciurus prevostii* is the most mammal recorded for 11 individuals. Diversity of mammals is 2.06 using Shannon-Weiner Diversity Index, while 0.78 using the Simpson Diversity Index. King's Cencus population estimates that there were 19.48 individual/km<sup>2</sup> or 0.19 individual/ha. Besides that, there was no strong relation between the vegetation cover and the mammal within the area. As conclusion, the habitat found in the compartment 9, KTS Plantation Sdn. Bhd. can sustain mammals population there.