

**DIVERSITY OF THE STINGLESS BEES (APIDAE: MELIPONINI) IN
LUBUK MINTURUN, KOTO TANGAH, PADANG, WEST SUMATRA**

UNDERGRADUATE THESIS

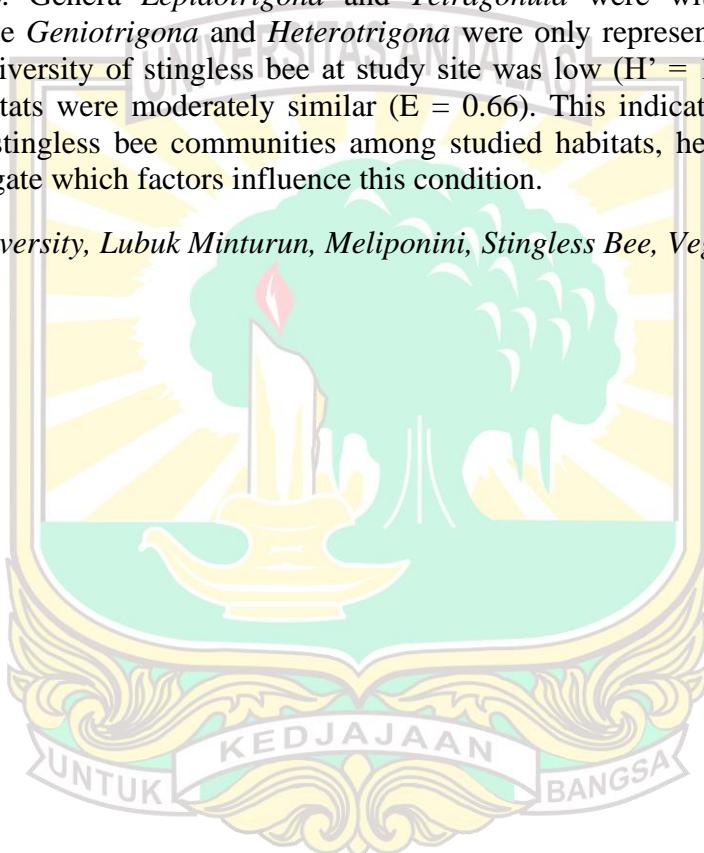


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ABSTRACT

The diversity of stingless bees (Apidae: Meliponini) in Lubuk Minturun, Koto Tangah, Padang, West Sumatra had been investigated from December 2021 to October 2022. This study aimed to determine species and diversity of stingless bees at the vegetated habitats in Lubuk Minturun. Data collection was performed at three types of vegetated habitats; anthropogenic area, forest edge, and forested area, each represented by three sites. The stingless bees were sampled using insect net and baited trap. As result, six stingless bees species from four genera were recorded from the study site. Genera *Lepidotrigona* and *Tetragonula* were with two species collected, while *Geniotrigona* and *Heterotrigona* were only represented by a single species. The diversity of stingless bee at study site was low ($H' = 1.07$), while the vegetated habitats were moderately similar ($E = 0.66$). This indicated the possible instability of stingless bee communities among studied habitats, hence it needs to further investigate which factors influence this condition.

Keywords: *Diversity, Lubuk Minturun, Meliponini, Stingless Bee, Vegetated Habitat*



ABSTRAK

Keanekaragaman lebah tanpa sengat (Apidae: Meliponini) di Lubuk Minturun, Koto Tangah, Padang, Sumatera Barat telah diteliti sejak Desember 2021 hingga Oktober 2022. Penelitian ini bertujuan untuk mengetahui spesies dan keanekaragaman lebah tanpa sengat pada habitat bervegetasi di Lubuk Minturun. Pengumpulan data dilakukan pada tiga tipe habitat bervegetasi; area antropogenik, tepi hutan, dan kawasan hutan, masing-masing diwakili oleh tiga lokasi. Pengambilan sampel lebah tanpa sengat dilakukan dengan jaring serangga dan perangkap berumpan. Hasilnya, enam spesies lebah tanpa sengat dari empat genera tercatat dari lokasi penelitian. Genus *Lepidotrigona* dan *Tetragonula* dengan dua spesies terkoleksi, sedangkan *Geniotrigona* dan *Heterotrigona* hanya diwakili oleh satu spesies saja. Keanekaragaman lebah tanpa sengat di lokasi penelitian tercatat rendah ($H' = 1,07$) dan ($E = 0,66$). Hal ini mengindikasikan adanya kemungkinan ketidakstabilan komunitas lebah tanpa sengat di antara habitat yang diteliti, sehingga perlu diteliti lebih lanjut faktor apa saja yang mempengaruhi kondisi tersebut.

Keywords: *Habitat Bervegetasi, Keanekaragaman, Lebah Tanpa Sengat, Lubuk Minturun, Meliponini*

