

ABSTRAK

Nurbani Maruf : Struktur Komunitas *Arthropoda* tanah pada areal perkebunan pala (*Myristica fragrans*) dan cengkeh (*Syzygium aromaticum*) di Kota Ternate Selatan sebagai bahan pengembangan buku saku ekologi serangga. Skripsi.
Ternate : Fakultas Keguruan dan Ilmu Pendidikan, Universitas Khairun, 2022

Perubahan struktur vegetasi pada ekosistem teresterial mempengaruhi struktur komunitas *Arthropoda* tanah. Tujuan penelitian ini adalah untuk mengetahui struktur komunitas *Arthropoda* tanah, hubungan faktor lingkungan terhadap struktur komunitas *Arthropoda* tanah pada perkebunan pala dan cengkeh di Kota Ternate Selatan, dan menyusun prototype pengembangan buku saku serangga.

Penelitian ini merupakan penelitian deskriptif yang menggambarkan fenomena struktur komunitas hewan permukaan tanah pada perkebunan pala dan cengkeh. Sampel dalam penelitian ini adalah seluruh *Arthropoda* permukaan tanah di perkebunan pala dan Cengkeh yang tertangkap pada setiap perangkap jebak. Analisis deskriptif digunakan untuk menghitung indeks keanekaragaman, i kemerataan, dominasi dan indeks nilai penting.

Hasil penelitian diperoleh sebanyak 13 spesies 250 individu. struktur komunitas Perkebunan cengkeh diperoleh indeks keanekaragaman (H'), indeks kemertaan, indeks dominansi dan indek nilai penting, masing – masing adalah 1.13 (rendah), 0.27 (rendah), 0.40 (rendah) dan 200 %. Sedangkan perkebunan pala diperoleh 1.53 (rendah), 0.34 (rendah), 0,34 (rendah) dan 200 %. Hasil uji validasi buku saku ekologi serangga diperoleh 95 % aspek isi, 98 % aspek tampilan dan 92 % aspek kegunaan.

Kata Kunci : Struktur, Komunitas, *Arthropoda*, Tanah, perkebunan, Pala, Cengkeh, Buku Saku ekologi serangga.

ABSTRACT

Nurbani Maruf : Community Structure of Soil Arthropods in the area of nutmeg (*Myristica fargrans*) and clove (*Syzygium aromaticum*) plantations in the City of South Ternate as material for developing an insect ecology pocket book. Essay.
Ternate : Faculty of Teacher Training and Education, Khairun University, 2022

Changes in the structure of vegetation in terrestrial ecosystems affect the community structure of soil arthropods. The purpose of this study was to determine the structure of the soil arthropod community, the relationship of environmental factors to the community structure of soil arthropods in the nutmeg and clove plantations in the city of South Ternate, and to develop a prototype insect pocket book development.

This research is a descriptive study that describes the phenomenon of the community structure of ground-level animals in nutmeg and clove plantations. The samples in this study were all ground surface arthropods in the nutmeg and clove plantations caught in each trap. Descriptive analysis was used to calculate the diversity index, i evenness, dominance and significance index.

The results obtained as many as 13 species 250 individuals. Clove plantation community structure obtained diversity index (H'), necessity index, dominance index and important value index, respectively 1.13 (low), 0.27 (low), 0.40 (low) and 200%. Meanwhile, nutmeg plantations obtained 1.53 (low), 0.34 (low), 0.34 (low) and 200%. The results of the validation test of the insect ecology pocket book obtained 95 % of the content aspect, 98 % of the appearance aspect and 92 % of the usability aspect.

Keywords: Structure, Community, *Arthropods*, Soil, plantation, Nutmeg, Cloves, Insect Ecology Pocket Book.