

ABSTRAK

POPULASI DAN KEANEKARAGAMAN MESOFAUNA SERASAH DAN TANAH AKIBAT PERUBAHAN TUTUPAN LAHAN HUTAN DI RESORT PEMERIHAN TAMAN NASIONAL BUKIT BARISAN SELATAN

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Penelitian ini dilakukan untuk mempelajari populasi dan keanekaragaman mesofauna terhadap perubahan tutupan lahan hutan yang terjadi di *Resort Pemerihan Taman Nasional Bukit Barisan Selatan*. Penelitian ini disusun dalam Rancangan Acak Lengkap (RAL) dan dilakukan pada empat lahan yang berbeda, yaitu : (1) hutan primer, (2) perkebunan kopi, (3) pertanian jagung, dan (4) lahan berumput. Variabel pengamatan meliputi populasi, indeks keanekaragaman, sifat kimia tanah (pH, C-Organik, N-total, P tersedia, dan kalium dapat ditukar), dan sifat fisika tanah (kerapatan isi tanah, suhu tanah, kadar air, dan porositas). Data dianalisis dengan menggunakan Uji F dan perbedaan nilai tengah diuji lanjut dengan uji BNT pada taraf 5%. Hasil penelitian menunjukkan bahwa perbedaan tutupan lahan sangat mempengaruhi indeks keanekaragaman mesofauna serasah, populasi mesofauna serasah dan populasi mesofauna tanah, namun tidak mempengaruhi indeks keanekaragaman mesofauna di dalam tanah. Selain itu, populasi dan indeks keanekaragaman mesofauna serasah dan tanah pada hutan primer lebih tinggi dibandingkan dengan tutupan lahan lainnya.

Kata kunci : Mesofauna, Taman Nasional Bukit Barisan Selatan, Tutupan lahan

ABSTRACT

ABUNDANCE AND DIVERSITY OF SOIL AND LITTER MESOFAUNA AS THE EFFECT OF FOREST COVER CHANGE IN PEMERIHAN RESORT BUKIT BARISAN SELATAN NATIONAL PARK

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This research was conducted to study about abundance and diversity of soil and litter mesofauna as the effect of forestcover change that occurred in the Pemerihan Resort, Bukit Barisan Selatan National Park. This research was compiled in a completely randomized design (CRD) and there were four different lands which were: (1) primary forest, (2) coffee plantation, (3) cornfield, and (4) grassland. The observation of mesofauna was taken in soil and litter from four different lands cover. The variable of observation were mesofauna abundance and diversity index, soil chemical properties (pH, organic carbon, total nitrogen, P available, and exchanged potassium), and soil physics properties (bulk density, soil temperature, humidity, and porosity). Data were analyzed using F test continue using least significant different (LSD) at 5%. The results showed that the different of lands cover affect the diversity index of litter mesofauna, abundance of litter and soil mesofauna, yet did not affect the diversity index of mesofauna underground. However, the abundance and diversity index of soil and litter mesofauna in primary forest was higher than the other cover lands.

Keywords: Bukit Barisan Selatan National Park, Cover Changes, Mesofauna