

RINGKASAN

ALEKSIUS FICTOR. 2022330029. Eksplorasi Keanekaragaman Arthropoda Permukaan Tanah Di Agroedupark Unitri Wagir. Pembimbing Utama : Hidayati Karamina, Pembimbing Pendamping : Dennis Wibowo

Sebagai kelompok hewan yang sangat beragam, artropoda dapat ditemukan di berbagai jenis habitat. Melalui perannya dalam penyerbukan, penguraian bahan organik, pengendalian hama, serta kedudukannya sebagai komponen penting dalam rantai makanan, mereka memegang peranan vital dalam menjaga keseimbangan lingkungan. Penelitian ini bertujuan untuk mengukur keanekaragaman, kemerataan, dan dominansi populasi artropoda penghuni permukaan tanah di UNITRI Wagir Agroedupark.

Pengamatan dilakukan di kawasan pertanian dengan beragam jenis tanaman yang menjadi habitat bagi berbagai spesies artropoda. Sebanyak 1.525 individu berhasil diidentifikasi, yang mencakup 14 ordo dan 36 famili atau morfospesies. Famili dengan kelimpahan relatif tertinggi adalah Formicidae dan Entomobryidae.

Berdasarkan analisis dominansi menggunakan indeks Simpson, diperoleh nilai sebesar 0,731 untuk transek 50 meter, 0,781 untuk transek 100 meter, dan 0,677 untuk transek 150 meter. Angka-angka tersebut menunjukkan tingkat dominansi yang tinggi, yang mengindikasikan bahwa kelompok-kelompok tertentu mendominasi populasi artropoda penghuni permukaan tanah di lokasi penelitian.

SUMMARY

ALEKSIUS FICTOR. 2022330029. Exploration of Ground-Dwelling Arthropod Diversity at Agroedupark Unitri Wagir. Primary Supervisor: Hidayati Karamina; Co-Supervisor: Dennis Wibowo.

As a highly diverse group of animals, arthropods are found in various types of habitats. Through their roles in pollination, organic matter decomposition, and pest control—as well as their status as vital components of the food web—they play a crucial role in maintaining environmental balance. This study aimed to measure the diversity, evenness, and dominance of ground-dwelling arthropod populations at the UNITRI Wagir Agroedupark.

Observations were conducted in an agricultural area featuring diverse plant species that serve as habitats for various arthropod species. A total of 1,525 individuals were identified, representing 14 orders and 36 families or morphospecies. The families with the highest relative abundance were Formicidae and Entomobryidae.

Based on dominance analysis using Simpson's index, dominance values of 0.731, 0.781, and 0.677 were obtained for the 50-meter, 100-meter, and 150-meter transects, respectively. These figures indicate a high level of dominance, suggesting that specific groups dominate the ground-dwelling arthropod population at the study site.