

**EKOLOGI ARTHROPODA PADA SAWAH ORGANIK DAN SAWA NON ORGANIK DI DESA LUBUK BAYAS KECAMATAN PERBAUNGAN KABUPATEN SERDANG BEDAGAI**

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**ABSTRAK**

Penelitian ini bertujuan untuk mengetahui kelimpahan, keanekaragaman, jumlah spesies, indeks keanekaragaman, indeks keseragaman, indeks dominansi Arthropoda, dan faktor fisika lingkungan di sawah organik dan sawah anorganik di Desa Lubuk Bayas Kecamatan Perbaungan Kabupaten Serdang Bedagai. Penelitian ini menggunakan metode survey dengan jala serangga pada dua periode yaitu pada masa tanam padi dan pasca panen. Pengambilan Arthropoda dilakukan dengan mengayunkan jala serangga sejauh 20 meter sebanyak 6 transek. Pengambilan sampel dilakukan sebanyak 6 kali .

Hasil penelitian menunjukkan bahwa terdapat 2 Kelas (Insecta, Arachnida), 9 Ordo (Coleoptera, Hemiptera, Diptera, Hymenoptera, Homoptera, Odonata, Orthoptera, Lepidoptera, Araneidae), 25 Famili (Coccinellidae, Chrysomelidae, Staphylinidae, Carabidae, Pentatomidae, Alydidae, Chironomidae, Tipulidae, Anthomyiidae, Chloropidae, Drosophilidae, Braconidae, Sphecidae, Ichneumonidae, Cicadellidae, Delphacidae, Coenagrionidae, Libellulidae, Acrididae, Tettigoniidae, Nymphalidae, Tetragnathidae, Lycosidae, Araneidae, dan Salticidae), dan 43 Spesies. Terdapat 40 jenis Arthropoda pada sawah organik dan 36 jenis Arthropoda pada sawah anorganik .

Dari hasil penelitian indeks keanekaragaman kedua sawah sedang, indeks keseragaman kedua sawah tinggi, dan indeks dominansi kedua sawah rendah. Faktor fisika lingkungan pada masa tanam padi hingga pasca panen berkisar antara 26,5 - 26,8°C, dengan kelembaban udara berkisar antara 65,7 – 68,2%, dan kecepatan angin berkisar antara 1,39 – 1,40 m/detik.

*Kata kunci : Arthropoda, organik, anorganik*

**ECOLOGICAL ARTHROPOD IN ORGANIC PADDY FIELD AND  
INORGANIC PADDY FIELD IN LUBUK BAYAS  
PERBAUNGAN DISTRICT  
SERDANG BEDAGAI**

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**ABSTRACT**

This research is conducted to determine the abundance, diversity, total species, diversity index, equitability index, dominance index of Arthropod and physical environmental factors in organic paddy field and inorganic paddy field in Lubuk Bayas village Perbaungan district Serdang Bedagai. This research uses a survey method with insecting net in two periods. The sampling is taken by swung insecting net as far as 20 meter in six lines. Sampling was done six times.

The result showed that there are 2 Class (Insect, Arachnida), 9 Ordo (Coleoptera, Hemiptera, Diptera, Hymenoptera, Homoptera, Odonata, Orthoptera, Lepidoptera, Araneidae), 25 Family (Coccinellidae, Chrysomelidae, Staphylinidae, Carabidae, Pentatomidae, Alydidae, Chironomidae, Tipulidae, Anthomyiidae, Chloropidae, Drosophilidae, Braconidae, Sphecidae, Ichneumonidae, Cicadellidae, Delphacidae, Coenagrionidae, Libellulidae, Acrididae, Tettigoniidae, Nymphalidae, Tetragnathidae, Lycosidae, Araneidae, and Salticidae), and 43 species. There are consist 40 species of Arthropod in organic paddy field and 36 species Arthropod in inorganic paddy field.

The result of this research are the diversity index of organic and inorganic paddy field is middle. The equitability index on organic and inorganic paddy field is high. The dominance index on organic and inorganic paddy field is low. The air temperature ranged from 26,5 - 26,8°C, with a range from 65,7 – 68,2% humidity, and wind speed ranged from 1,39 – 1,40 m/sec.

*Key words : Arthropod, organic, inorganic*