



## Intisari

# KERAGAMAN ARTROPODA TANAH PADA SISTEM BUDIDAYA PADI HEMAT AIR

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Penelitian ini bertujuan untuk mengetahui dampak durasi penggenangan dan tinggi genangan air pada artropoda tanah pada lahan padi organik di Desa Sidorejo, Kecamatan Godean, Kabupaten Sleman, Daerah Istimewa Yogyakarta. Perlakuan yang diuji adalah (1) penggenangan air (setinggi 5-10 cm) hingga saat sebelum tumbuh malai (WM1) dan (2) penggenangan terus-menerus (setinggi >15 cm) hingga saat panen. Hasil penelitian menunjukkan bahwa kelimpahan artropoda tanah pada perlakuan WM1 lebih banyak secara nyata dibandingkan pada perlakuan WM2. Hasil penelitian juga menunjukkan bahwa keragaman artropoda pada perlakuan WM2 lebih besar daripada pada perlakuan WM1. Meskipun demikian, dominansi artropoda di WM1 lebih besar daripada WM2. Dengan demikian, penelitian ini menunjukkan bahwa kondisi genangan air mempengaruhi keberadaan artropoda pada lahan padi.

Kata kunci: kelimpahan, keragaman, dominansi, artropoda tanah, kondisi genangan air.



## Abstract

# DIVERSITY OF SOIL ARTHROPODS IN SYSTEM OF WATER- SAVING PADDY CULTIVATION

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This research aims to determine the impact of the duration of flooding and the height of puddles on the existence of soil arthropods in an organic paddy field in the village of Sidorejo, District Godean, Sleman. The two treatments were (1) intermittent watering (5-10 cm in height) until the emergence of grains (WM1), and (2) continuously flooding (> 15 cm in height) until harvest time (WM2). The result showed that the abundance of arthropods in WM1 is higher than in WM2, while the opposite result was found in terms of arthropod diversity. The result also indicated the higher domination of the decomposer functional group in WM1. As a conclusion, this research showed that the water puddle influenced the existence of soil arthropods in paddy system.

Kata kunci: abundance, diversity, dominance, soil arthropods, water puddle.