ABSTRAK

AHMAD TAMRIN. Tingkat Serangan Hama Penggerek Padi Putih Pada Waktu Tanam Berbeda Di Desa Helumo Kecamatan Mootilango Kabupaten Gorontalo. Dibimbing oleh DEWA OKA SUPARWATA sebagai pembimbing I dan ADITYA DJAINI sebagai pembimbing II.

Telah banyak penelitian terkait penggerek batang padi, namun dibutuhkan pengukuran intensif pada waktu kemunculan hama dalam mensiasti ketepatan penanaman padi. Tujuan penelitian ini yakni; (1) mengkaji pengaruh waktu tanam terhadap tingkat serangan hama penggerek batang padi; (2) mengkaji ledakan serangan hama penggerek batang padi; dan (3) mengkaji korelasi antara intensitas serangan hama penggerek terhadap jumlah kerusakan anakan padi sawah. Penelitian dilakukan di Desa Helumo Kecamatan Mootilango Kabupaten Gorontalo, pada Bulan Oktober sampai Desember 2024. Penelitian ini dirancang dengan menggunakan Rancangan acak Kelompok (RAK) dengan 3 perlakuan penentuan waktu tanam (awal, puncak, & akhir), yang diulang sebanyak 4 kali. Penentuan sampling tanaman ditentukan dengan pola diagonal, dengan pengamatan 10 rumpun setiap dan 50 rumpun setiap petak sampel. Analisis data yang digunakan meliputi analisis intensitas serangan, sidik ragam, dan regresi korelasi.
Hasil penelitian menunjukkan bahwa: (1) Waktu tanam memiliki pengaruh dengan tingkat penyerangan hama penggerek batang padi putih di Desa Helumo; (2) Intensitas serangan tertinggi terjadi pada akhir waktu tanam dan terendah pada awal waktu tanam. Persentase penyerangan hama penggerek padi sebesar 0,1-0,57% dan tergolong ringan; dan (3) Korelasi signifikan antara intensitas serangan hama penggerek terhadap jumlah anakan yang terserang ditunjukkan pada puncak musim tanam, dengan tingkat serangan mencapai 48,23% kerusakan anakan diakibatkan oleh serangan hama penggerek padi. Hal ini mengindikasikan bahwa di puncak tanam populasi meningkat sejalan dengan serangan yang semakin meningkat, bila dibandingkan pada awal dan akhir penanaman.

Kata Kunci: Hama Penggerek Batang Padi Putih; Padi Sawah; Intensitas Serangan; Waktu Tanam; Korelasi

ABSTRACT

AHMAD TAMRIN. Attack Level of White Rice Borer Pests in Helumo Village, Mootilango District, Gorontalo Regency, at Various Planting Times. Under the supervision of ***Aditya Djaini*** *as Supervisor II and* ***Dewa Oka Suparwata*** *as Supervisor I.*

Numerous research has been conducted on rice stem borers; however, in order to determine the correctness of rice planting, thorough measurements must be taken at the time of pest emergence. This study's goals are to: (1) investigate how planting time affects the severity of attacks by rice stem borer pests; (2) investigate the surge in attacks; and (3) investigate the relationship between the severity of attacks and the amount of damage done to rice seedlings. From October to December 2024, The study was conducted in Gorontalo Regency's Helumo Village, Mootilango District. Three treatments (early, peak, and late) were used to determine the planting timing in this study, which was developed using a Randomized Block Design (RBD) and repeated four times. A diagonal pattern was used to determine plant sampling, with observations of 10 clumps per sample plot and 50 clumps per sample plot. Analysis of variance, correlation regression, and attack intensity analysis were among the data analytic techniques employed.

The study's findings demonstrated that: (1) Helumo Village's degree of white rice stem borer pest attack is influenced by planting time; (2) Attack intensity peaks at the end of planting time and troughs at the start of planting time. Attacks by rice stem borer pests are classified as light, with a percentage of 0.1-0.57%; and (3) at the height of the planting season, there was a significant correlation between the number of seedlings attacked and the intensity of attacks, with an attack rate of 48.23% of seedling damage caused by attacks by rice stem borer pests. In contrast to the start and finish of planting, this suggests that at the height of planting, the population grows in tandem with the rise in attacks.

Keywords: Paddy Field; Attack Intensity; Planting Time; Correlation; White Rice Stem Borer Pest.