

**KAJIAN MORFOMETRI WERENG COKLAT (*Nilaparvata Lugens*) DAN  
GULMA PADA EKOSISTEM PADI SAWAH DI KABUPATEN LANGKAT  
PROPINSI SUMATERA UTARA**

**Heka Citra Dewi Br. Tarigan (4121220003)**

**ABSTRAK**

Tujuan dalam penelitian ini adalah mengetahui perbedaan morfometri *Nilaparvata lugens* betina dewasa dengan *Nilaparvata lugens* jantan dewasa dan indeks nilai penting (INP) gulma sebagai inang *Nilaparvata lugens* yang ada pada ekosistem padi sawah yang berada di Kabupaten Langkat. Sampel *Nilaparvata lugens* yang ditemukan kemudia diukur menggunakan mikroskop stereo Zees (Stemi 2000-C). Parameter terukur yang diamati adalah panjang tubuh, lebar tubuh, panjang kepala, lebar kepala, panjang sayap, lebar sayap dan panjang tungkai. Hasil penelitian menunjukkan bahwa ukuran morfometri *Nilaparvata lugens* betina lebih besar secara nyata dibandingkan *Nilaparvata lugens* jantan dan gulma yang menjadi inang *Nilaparvata lugens* adalah *Leersia hexandra*. Ukuran parameter terukur *Nilaparvata lugens* jantan yaitu panjang tubuh 2.330, lebar tubuh 0.716, panjang kepala 0.796, lebar kepala 0.556, panjang sayap 2.700, lebar sayap 0.470 dan panjang tungkai 2.423. Sedangkan ukuran parameter terukur betina yaitu panjang tubuh 2.960, lebar tubuh 0.843, panjang kepala 1.006, lebar kepala 0.590, panjang sayap 2.909, lebar sayap 0.940 dan panjang tungkai 2.800.

**Kata Kunci** : Morfometri, *Nilaparvata lugens*, Gulma, Tumbuhan Inang.

**MORPHOMETRY STUDY OF BROWN PLANTHOPPER (*Nilaparvata  
Lugens*) AND WEEDS IN RICE ECOSYSTEMS LANGKAT IN NORTH  
SUMATERA PROVINCE**

**Heka Citra Dewi Br. Tarigan (4121220003)**

**ABSTRACT**

The purpose of this research was to determine the difference morphometry *Nilaparvata lugens* *Nilaparvata lugens* adult female with adult male and an important value index (INP) weeds as host *Nilaparvata lugens* exist in lowland rice ecosystems that are in Langkat. Samples *Nilaparvata lugens* were found later measured using a stereo microscope Zees (Stemi 2000-C). Measurable parameters measured were body length, body width, head length, head width, wing length, wingspan and long legs. The results showed that the size of *Nilaparvata lugens* morphometry females significantly larger than males *Nilaparvata lugens* and weeds that are hosts *Nilaparvata lugens* is *Leersia hexandra*. The size of the measured parameters *Nilaparvata lugens* 2,330 males ie body length, body width 0716, 0796 head length, head width 0556, 2,700 long wings, a wingspan of 0.470 and 2.423 limb length. While the size of the measured parameter, namely the female body length 2960, 0843 wide-body, head length 1006, 0590 head width, length 2,909 wings, wingspan 0.940 and 2.800 limb length.

**Keywords** : Morphometry, *Nilaparvata lugens*, Weeds, Host Plants.