

**PENGARUH APLIKASI ABAMEKTIN TERHADAP POPULASI WERENG
BATANG PADI COKLAT (*Nilaparvata lugens* Stal.) DAN MUSUH ALAMINYA**

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ABSTRAK

Wereng batang padi coklat (*Nilaparvata lugens* Stal.) merupakan hama utama padi di Asia termasuk Indonesia. Abamektin dilaporkan memicu terjadinya ledakan populasi *N. lugens* di Thailand dan menyebabkan kerugian ekonomi yang tinggi pada tahun 2011. Ledakan populasi *N. lugens* sebagian besar terjadi akibat penggunaan insektisida yang mendorong terjadinya resurgensi. Tujuan penelitian ini adalah mengetahui pengaruh abamektin terhadap *N. lugens* dan musuh alaminya. Penelitian ini dilaksanakan di Desa Juwiran, Kecamatan Juwiring Kabupaten Klaten pada bulan Maret hingga November 2013. Walaupun populasi *N. lugens* secara umum rendah pada saat penelitian, abamektin konsentrasi subletal (3,4 ppm) menimbulkan peningkatan populasi *N. lugens* di akhir pengamatan. Populasi kompleks predator pada perlakuan abamektin tidak berbeda nyata dengan kontrol. Disamping itu, persentase parasitasi dan penetasan parasitoid pada perlakuan abamektin juga tidak berbeda dengan kontrol.

Kata kunci : *Nilaparvata lugens*, abamektin, resurgensi, predator, parasitoid.

**EFFECT OF ABAMECTIN ON POPULATION OF BROWN PLANTHOPPER
(*Nilaparvata lugens* Stal.) AND ITS NATURAL ENEMIES**

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ABSTRACT

Brown planthopper (*Nilaparvata lugens* Stal.) is one of the major pests on rice in Asia including Indonesia. Abamectin triggered *N. lugens* outbreak in Thailand and caused serious economic loss in 2011. *N. lugens* outbreak occurred after insecticide application leading to resurgence. The objectives of this research were to study effects of abamectin in *N. lugens* and its natural enemies. The field research was conducted in Juwiran Village, Juwiring Subdistrict, Klaten District in March to November 2013. Although the general population in the season was considerably low, application of sublethal concentration (3,4 ppm) of abamectin increased *N. lugens* population at the end of the observation. There was no significant difference between *N. lugens* complex predator population in abamectin plots and control. Futhermore, parasitism rate and parasitoid emergence did not different between abamectin and control treatment.

Keyword : *Nilaparvata lugens*, abamectin, resurgence, predator, parasitoid.