

# Field Reaction of Certain Rice Cultures Against Brown Planthopper (BPH), *Nilaparvata lugens* Stal°

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## ABSTRACT

Eighteen medium and ten long duration rice cultures along with resistant check, Ptb 33 and susceptible check, TN1 were mass screened both under greenhouse and field conditions for their reaction against brown planthopper (BPH), *Nilaparvata lugens* Stal° at Andhra Pradesh Rice Research Institute and Regional Agricultural Research Institute, Maruteru, West Godavari district, Andhra Pradesh during the period 2010 to 2011. The differential reaction of rice cultures to brown planthopper indicated that fourteen rice cultures from greenhouse and thirteen rice cultures from field studies were found to be resistant to BPH. Among the resistant rice cultures, BM 71 and the resistant check, Ptb 33 was highly resistant with a damage score of '1'. The rice cultures viz., M 401 and L 406 with a damage score of '3' categorized as resistant and the rice cultures viz., L 407 (damage score 3.3), M 406 (damage score 3.67), M 404 (damage score 4.0), M 391 (damage score 4.33), M damage score 405 (damage score 4.34), L 405 (damage score 4.34) M 392 (damage score 4.67), L 400 (damage score 4.67), and L 403 (damage score 5.0) with a damage score in between 3.0 to 5.0 have been designated as moderately resistant.

**Key words :** *Nilaparvata lugens* (BPH), Rice, Screening