GROWTH, DEVELOPMENT AND YIELD OF WHITE-BAKED PLANTHOPPER RESISTANT RICE VARIETIES IN THUA THIEN - HUE PROVINCE

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Summary

The study aimed to select white backed planthopper (Sogatella furcifera Horvath) (WBPH) resistant rice varieties to be adapted to the ecological conditions in Thua Thien - Hue province. The experiment was conducted on 6 WBPH resistant rice varieties (KR1, OM4900, OM7347, HP10, DT34 and PC6) and 02 controls including TN1 (WBPH susceptible variety) and HT1 (quality rice varieties commonly planting in Thua Thien - Hue), designed in randomized complete block (RCB) with 3 replications in summer – autumn season 2014 and winter- spring seasons 2014-2015 in Huong Xuan and Huong An communes, Huong Tra town, Thua Thien - Hue province. Results showed that tested varieties were short duration (growing duration of 96 - 126 days), medium plant height (85.66 – 108.13 cm) and good tillering ability (> 20 tillers/hill). The densities of WBPH on tested varieties were lower than those of the controls. The tested varieties were heigher grain yields and equivalent quality to the control HT1. Among them, HP10 and DT34 were two varieties obtained high yields from 4.80 to 5.97 tonnes / ha and 4.95 to 5.96 tonnes / ha, respectively. Therefore, it is necessary to carry out a large scale trials and to complete cultivated procedures for DT34 HP10 varieties to introduce them into rice production in Thua Thien - Hue province.

Keywords: Resistant variety, rice cultivation procedure, white backed planthopper, Thua Thien - Hue province.