

# **ADAPTABILITY ASSESSMENT OF SOME LOCAL RICE VARIETIES FOR UNFAVORABLE ON IRRIGATION WATER IN THUA THIEN - HUE PROVINCE**

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## **Summary**

The field experiments were laid out in a randomized complete block design (RCBD) with three replications under infield unfavorable on irrigation water condition in winter-spring 2017-2018 and summer-autumn 2018 at Thua Thien - Hue province to assess the growth, development and grain yield of five local varieties. The results showed that the varieties had medium plant height (90.12 - 113.51 cm) and medium rice heading date, the growth time of rice varieties in the winter- spring season ranged from 98 to 124 days and from 89 to 104 days in the summer - autumn season. Pest and disease infestation of the varieties was lower than the check varieties. Yield of 3 varieties such as Kay Noi, Tre and A Ham was higher than the check varieties (from 3,52 to 4,23 tons /ha). Protein content of the rice varieties was high (more than 11%), cooking quality of A Ham and Tre were higher than that of the check variety and others varieties.

**Keywords:** *Local rice varieties, adaptability, unfavorable on irrigation water, Drought tolerant rice.*