

Effects of Different Severity of Bacterial Leaf Blight on the Rice Yield and Quality in Hualien Area

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Summary

To study the effect of the bacterial leaf blight on the rice quality and yield, the experiments were conducted at Fenglin, Yuli and Fuli areas which were good-quality rice cultivation areas in Hualien from 1998 to 2000. The rice cultivars Taikeng 9, Taikeng 16 and a most prevailing rice variety in each experiment site were used in this experiment. The results showed that the grain yield was obviously reduced under heavy severity of bacterial leaf blight. Data also revealed the irregular effects under light to middle severity among varieties and crops, and Taikeng 2 were relatively stable among entries. In the rice grain appearance, the ratio of chalky rice was obviously raised in heavier severity, especially for TK16. In panel taste test of cooked rice, rice eating quality was worse under higher injury.

Key words: Rice, *Oryza sativa* L., Bacterial leaf blight of rice, Rice quality

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