

District Difference of Rice Quality and Yield in Hualien County¹

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Summary

To enhance the rice quality and adjust the rice cultivated system in Hualien County, the rice samples from Eastern Region Branch, Agriculture and Food Agency had been analyzed from the second crop of 2004 to the first crop of 2006. The results showed that the palatability value of milled rice, protein of rice, and grain yield in the first crop of 2005 was better than other crops. Between cultivars, Taikeng No.4 and Kaohsiung No.139 were the best two in palatability value of milled rice in the second crop of 2005, and Taikeng No.16 was the best in the first crop of 2006. In the grain yield, Taikeng No.4 yielded highest in the second crop of 2004 with 6214 kg /ha, but Taikeng No.2 yielded lowest in the first crop of 2005. Quality of rice produced in Fu-li township was supposed the best, but there was no significant difference among townships in the palatability value of milled rice from the second crop of 2004 to the second crop of 2005. Finally, the palatability value of milled and brown rice negatively correlated with percentage of protein of rice, but the palatability value and taste value of rice positively correlated in all crops. In all crops, the correlation of the palatability of milled rice and the grain yield was very low.

keywords : rice, quality, palatability value of rice, taste of rice

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