

Studies on Cropping Systems with Early Maturing Rice and Upland Crops in Central Taiwan

by

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Summary

This experiment was conducted at the Stations's research farm from 1976 to 1976 in order to prove the possibility of cropping system, using early maturing rice variety by adjust the conventional transplanting period, grow three rice crops or two rice crops followed by a winter intercrop in the same year in central Taiwan. The results of past four years are summarized as following:

The experimental results indicated that planting three crops of early maturing rice could increase 33.4% and 24.3% of total production value compared with conventional two crops of rice planting with Tainan 5 and Taichung sen 3. The data also showed that the production value by planting two crops of early maturing rice variety followed by one crop of corn or soybean were increased 14.8% and 12.6% compared with two crops of Tainan 5. However, if the rice variety Tainan 5 was replaced by Taichung sen 3, the total production value would increased to 6.9% and 4.9%.

From above results, a general conclusion could be made that the increasing of farmers income by growing three crops rice or two crops of early maturing rice variety followed by one crop of corn or soybean could be also be extended in central Taiwan.