

An Early Maturing Variety of Japonica Rice, Toyonishiki

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Summary

Toyonishiki is a high and stable yielding Japonica rice variety with the favorable characteristics of early maturity, cold tolerance and good grain quality. It is suitable for rotational cultivation with some summer and winter catch crops, such as cantaloupes, pickling cucumber, vegetables, peas as well as various up-land crops. It is also suitable for cultivations in the coastal areas in monsoon season in Taiwan.

For the purpose of extending its growing period and increasing the tillers and panicles, as well as of avoiding the rainy season which will cause a loss of grain yield by lodging and grain sprouting in the field, this variety is recommended to transplant in late January throughout early February for the first crop. For growing this variety, it is necessary to raise a healthy seedlings, and to transplant by mechanical transplanter or by hand with closer spacings at 24cm×21cm for the first crop, and 24cm×18cm for the second crop respectively.

The character of nitrogen response of this variety is inferior to Tainung No. 67 or Kaohsiung No. 141. Therefore, the rates of nitrogen application for this variety should be 10% to 15% less than the rates for Tainung No. 67, and should be applied within 35 days after transplanting in the first crop, and within 20 days after transplanting in the second crop.

On the other hand, for preventing lodging the field should be properly drained during the maximum tillering and the booting stage. Besides, this variety is susceptible to all kinds of main diseases and insects. Therefore, application of chemicals is necessary while disease or insect appear.

In the second crop, the field should be irrigated once for every 3-5 days during the soft dough stage and maturation stage to keep proper amount of moisture in the soil to prevent the wilting of rice plants from over drying.

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