

Development of Glutinous Rice Varieties of Taichung Non 70 and Taichung Sen Non 1¹

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ABSTRACT

For the improvement of inferior agronomic characters on the cultivated varieties of glutinous rice in Taiwan, two varieties namely, Taichung Non 70 and Taichung Sen Non 1 had been developed, through hybridization by the high yielding of non-waxy cultivated variety and good quality of waxy rice as parents. They were named and released to the farmers on July 11, 1984.

Taichung Non 70 is a short-grain Japonica type glutinous variety with the favourable characteristics of strong culm to resistant lodging, high response to nitrogen fertilizer and suitable to cultivate by mechanization. The local yield trials showed that the grain yield could be increased 18.3% and 20.7% as compared with the check variety of Taichung Non 46 in the first and second crops, respectively. Although the variety is not resistant to leaf-blast, it is stronger resistant to neckblast than the currently varieties of glutinous rice. Since the variety is not resistant to bacterial leaf blight, it is better not to grow in the poorly drained or windy area where bacterial leaf blight is often serious. The brown plant hopper should be controlled according to the method recommended in the plant protection handbook. The rice quality is suitable to make processing foods and brew wines.

Taichung Sen Non 1 is a long-grain Indica type glutinous variety, characterized by its good eating quality, semi-dwarf plant to lodging resistance as well as resistant to disease and insect pests which are including blast disease, banded sclerotial disease, bacterial leaf blight, yellow disease and planthopper etc. This is a first glutinous variety of multiple resistance to disease and insect pests hybridized in Taiwan. According to the two years' local yield trials, it could be also increased 8.3% and 44.4% of grain yield compared check variety of Taichung Non 46 in the first and second crops, with the respectively. This variety is better transplanted at the late stage of first crop due to its susceptible to cold weather, and more suitable in second crop for cultivation.

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