

Development of the New Rice Variety Taisen No. 2¹

J.W. Wu Y.C. Chiu Y. C. Teng F.H. Lin ²

T.F. Lin ³

Abstract

Taichung Sen No. 10 has been the leading indica rice variety in Taiwan, however, it is susceptible to bacterial leaf blight, especially after typhoon. In order to improve the disease resistance for Taichung Sen No. 10, a cross combination between Taichung Sen No. 10 and Taisen Glutinous Yu 738 was made in the spring of 1990, and the F₁ plants were back cross to Taichung Sen No. 10 in the fall of 1990. After a series of experiments and observations, a breeding line with good characteristic was selected in the fall of 1992, which was designated as Taisen Yu 3165. This breeding line with others were joined yield trials and agronomic characteristic tests, including the regional yield trial, Taisen Yu 3165 performed good in plant type, disease resistance and grain yield. Based on the 2 years average of regional yield trials, Taisen Yu 3165 obtained 3.5% and 7.3% higher yield than the Taichung Sen No. 10 for the spring and fall crop respectively. The data collected from the agronomic characteristic tests showed that Taisen Yu 3165 is resistant to leaf blast, panicle blast, rice stripe disease and moderately resistant to bacterial leaf blight. The other agronomic characteristics of Taisen Yu 3165 were similar to Taichung Sen No. 10. This variety was formally named as Taisen No. 2 in 1998. Thus, it is recommended to plant this new rice variety in the area which is suitable for indica rice varieties to grow.

Key Words: Rice, New Variety

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 2. Assistant Agronomist, Associate Agronomist, Deputy Director and Director of Kaohsiung DAIS, respectively.
 3. Associate Agronomist of Taichung DAIS.