

## Using Smaller Brown Planthopper-resistant Varieties for Controlling Rice Stripe Disease

M. T. Chiu and T. C. Cheng<sup>1</sup>

### ABSTRACT

There are four resistant varieties to the smaller brown planthopper (*Laodelphax striatellus*) namely Tainung Sen 18, Tainung Sen 19, Kaohsiung Sen Yu 338, and IG 712068. Tainung 67 served as susceptible check. The results obtained from two experimental sites showed that infective rate for resistant variety was less than 0.1%, except for Tainung Sen 18. However, Tainung 67 is as high as 50.3% in Meilung and 26.57 in Lukwei. The average number of smaller brown planthopper ranged from 3.5 to 5.7 per hill in Meilung, 2.5 to 3.7 per hill in Lukwei. The population density in resistant varieties was steady fluctuation but Tainung 67 gave a higher change being 16.7 per hill in Meilung and 17.8 in Lukwei. It is a obvious success instance to use smaller brown planthopper resistant variety as a measure to control the stripe disease.

---

1. Associate Entomologist and Secretary, and Assistant Agronomist, Kaohsiung District Agricultural Improvement Station, respectively.