

Empirical Protection Probability for Disease Prevalence of Rice Leaf Blast in Taiwan

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Summary

Island-wide survey data of disease prevalence(%) of rice leaf blast during the year of 1967-1978 were used to determine the empirical protection probability at 19 different class intervals from disease prevalence $< 1\%$, 1.1-5%,...to 85.1-90%, and to delimit the maximum disease prevalence at the level of 90% of protection probability for different forecast plots and regions.

Disease prevalence for seven forecast regions in Taiwan were significantly different. At the level of 90% protection probability, the upper limits of disease prevalence for these forecast regions were as follows: Taipei 10%, Hsinchu 25%, Taichung 30%, Tainan 35%, Kaohsiung 40%, Taitung 60% and Hualien 45%. The upper limits of disease prevalence for forecast plots were also significantly different.

(Key words: Empirical probability; Disease prevalence; Rice leaf blast.)