

## The density of the Smaller Brown Planthopper of Rice Stripe Virus Disease Vector after Barley Harvest.

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In double cropping fields, there has been a risk to increase rice stripe viral disease by the vector smaller brown planthopper that overwinter in barley fields. Especially Honam region's rice cultivation has two systems such as only rice and double cropping both rice and barley. Which could induce of vector's migration from barley to rice field. So, there is needed a effective method to control the smaller brown planthopper.

In the results, the effective control time was within three days after barley harvesting. The vector's density was different in rice fields by distance from barley field. The planthopper's density was highest as 63 numbers within one meter from barley, and the numbers were reduced rapidly following by further distance from barley field. In examination of disease incidence according rice cultivation methods, Donjin 1 was resulted as a susceptible variety showed 2.4% and 2.5% in direct and transplanting cultivation, respectively.

Smaller brown planthopper as a causal agent of rice stripe virus was rapidly increased after 3 days barley harvest.