| Grassy Stunt Disease of Rice: Symptoms, Disease<br>Cycle, and Management |   |
|--|---|
| Disease Name   | Rice Grassy Stunt Disease (RGSV)  |
| Common Name  | Rice Grassy Stunt Virus (RGSV)  |
| Pathogen   | Viral   |
| Vector   | Brown Planthopper (BPH)   |
| Transmission   | Feeding on infected plants and carrying the virus to healthy ones   |
| Symptom Highlights   | Severe stunting, excessive tillering, grassy and rosette appearance, abnormal leaf characteristics, rusty spots and blotches, green color retention with nitrogen fertilizers, survival without |

panicle formation

Significant stunting, reduced plant height, dense and grassy appearance, Impact on Plant Growth upright growth habit, bunchy look, yellowish-green leaves with small rusty spots, failure to produce panicles

Complex interaction between virus and the vector, brown planthopper. Longwinged adults play a significant role in transmission. The virus has a latent Disease Cycle period in the vector. Ratoon crop and vector presence can perpetuate the

disease. Use of Izumonas - Plant growthpromoting rhizobacteria (PGPR) to enhance plant defense mechanisms. Use of Izuraid - Biotech research product for Management insect pest control. Modes of use include seed treatment, seedling treatment, soil application, and foliar application.