

## Southern Rice Black-streaked Dwarf Virus (SRBSDV)

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### Southern Rice Black-streaked Dwarf Virus (SRBSDV)

Recently, the Punjab Agricultural University (PAU) has revealed Southern Rice Black-streaked Dwarf Virus (SRBSDV) to be the cause behind the dwarfing of paddy plants across the state.



[Ref: Hindustan Times]

### Southern Rice Black-streaked Dwarf Virus (SRBSDV):

- It is a **non-enveloped icosahedral virus** with a genome of 10 double-stranded **RNA segments**.
- It is a novel species in the genus **Fijivirus** (family Reoviridae) first recognized in 2008.
- It was first discovered in China, in 2001.
- Since 2009, the virus has rapidly **spread and caused serious rice losses in East and Southeast Asia**.

### Characteristics of SRBSDD:

- Plants infected at the early seedling stage exhibit **dwarfism and stiff leaves**.
  - Most symptoms appear after the rice plants have been transplanted to the paddy field.
- Infection at the early tillering stage results in **excessive tillering**.
- Infection at the elongating stage led to **small spikes, barren grains, and deficient grain weight**.
- The **diseased leaves are short, dark green & rigid**, ruffles often appear near the leaf base on the surfaces of upper leaves.