

What is Pusa Basmati 1847?

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About Pusa Basmati 1847:

- It is an **improved version of the popular Basmati rice variety**, Pusa Basmati 1509 with **inbuilt resistance to bacterial blight and blast disease**.

- This variety **possesses two genes each for bacterial blight resistance**, namely, xa13 and Xa21, **and blast resistance**, namely, Pi54 and Pi2.
- It is an **early maturing** and **semi-dwarf** basmati rice variety.
- It has an **average yield of 5.7 tonnes/ ha**.
- This variety was **released for commercial cultivation in 2021**.

What is the Uniqueness of Basmati Rice?

- It is **cultivated in the Himalayan foothills** of the Indian sub-continent and is universally known for its **long grain size, fluffy texture, and unique inherent aroma** and flavor.

What are the Climatic conditions required for rice cultivation?

- **Temperature:** Between **22-32°C** with **high humidity**.
- **Rainfall:** Around **150-300 cm**.
- **Soil Type:** **Deep clayey** and **loamy soil**.
- **Top Rice Producing States:** **West Bengal > Punjab > Uttar Pradesh > Andhra Pradesh**.

Q1) What is bacterial blight disease?

Bacterial blight is caused by *Xanthomonas oryzae* pv. *oryzae*. It causes wilting of seedlings and yellowing and drying of leaves. The disease is most likely to develop in areas that have weeds and stubbles of infected plants. It can occur in both tropical and temperate environments, particularly in irrigated and rainfed lowland areas.

Source: [Farmers queue up to purchase high-yielding basmati seeds](#)

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