



Diseases of Sugarcane

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Abstract

There are more than 120 sugarcane diseases that have been found in the world presently and more than 60 have been reported in. Mastering the disease types, damage, and distribution in the sugarcane area can provide scientific basis for the sugarcane disease. After June, with the high temperature and humidity, eyespot, brown stripe, yellow spot, pokkah boeng, rust, ring spot, and leaf scorch diseases are easily occurring and epidemic. Especially in recent years, introducing seedcanes frequently and transposing seedcanes in sugarcane planting area make some dangerous set transmitted diseases (ratoon stunting disease, mosaic, smut, yellow leaf syndrome, etc.) which are spread by seed cane between sugarcane areas.

Keywords: Rot, Smut, Acervulus, Chlamydospore, Inoculum

Sugarcane (*Sachharum sp*) is one of the most important cash crops in India. Its commercial aspects make the crop most popular among farming communities across the length and breadth of India. Still it is considered as the most important source of sugar in India. A healthy crop of sugarcane ensures the smooth running of sugar industry. The molasses not only be taken in brewing industry but also the byproducts are popular in paper industry as well as in manuring (Heinrichs *et al.*, 2017).

However the cultivation and productivity of sugarcane is always been facing the disease problem. Knowing the diseases that affect its production and building knowledge on their effective control is a must. In this chapter we get organized knowledge on the disease constraint of sugarcane.

Important Diseases of Sugarcane

Sugarcane has been reported to be suffered from many fungal, bacterial and viral diseases (Ricaud *et al.*, 2012), which are as follows

Fungal Disaeses:

1. Red rot – *Colletotrichum falcatum*
2. Whip smut – *Ustilago scitaminea*
3. Rust – *Puccinia sachharii*
4. Pineapple rot/Sett rot – *Ceratocystis paradoxa*
5. Wilt – *Cephalosporium sachharii*
6. Eye spot – *Bipolaris sachharii*
7. Ring rot – *Leptosphaeria sachharii*
8. Pokkah boeng- *Fusarium monilliformiea subgluinans*

Bacterial Diseases:

1. Ratoon stunting – *Clavibacter xyli*
2. Grassy shoot– MLO (Mycoplasma Like Organism)

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