Effect of plant characters on sheath blight disease development

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ABSTRACT

Experiment on the effect of plant characters *viz*., Plant height, leaf length, leaf width, leaf angle, culm strength, number of tillers, culm diameter, sheath length and duration of the crop on sheath blight disease development was carried out at Regional Agricultural Research Station, Maruteru and found that Plant height, leaf length, leaf width, leaf angle, culm strength, no. of tillers and sheath length were positively correlated with sheath blight disease development , culm diameter and duration of the crop were negatively correlated with disease severity. Leaf angle, culm strength and culm diameter and total number of tillers significantly influence the disease development. Out of 12 different genotypes tested, MTU-7029 (70.44%), IR-64 (66.35%) and MTU-3626 (61.28%) having more sheath length, leaf angle and more no. of tillers recorded maximum severity than other genotypes. MTU-1001(53%) showed less disease incidence than other genotypes due to more culm strength, diameter and less duration.

Key words: *Plant Characters. Rhizoctonia solani,Rice and Sheath Blight.*