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A CASE STUDY

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Evaluation of banana germplasm against sigatoka leaf spot disease under natural conditions

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ABSTRACT

Study on screening of germplasm of banana was under taken during 2008-09 and 2009-10 under natural epiphytotic conditions. The observations were recorded on to sigatoka leaf spot index of banana. All cultivars under study from four genomic groups have recorded susceptible to highly susceptible reactions to the sigatoka leaf spot disease (*Mycosphaerella musicola*) of banana. During both the years of study, all cultivars were recorded susceptible category, of disease reaction. Among the nine cultivars from AAA group, the respective range of PDI were 11.43 to 31.33 and 22.35 to 38.52 for 2008-09 to 2009-10. During both years of study, the highest PDI was recorded with cv. MAHALAXMI. The least PDI was recorded with cv. SHRIMANTHI. The cv. SAFED VELCHI (AB) recorded PDI above 20 and also recorded susceptible reaction. The four cultivars from AAB group recorded PDI in the range of 8.35 to 21.53 and 20.14 to 28.32, respectively for 2008-09 and 2009-10.

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