Screening of Maize Genotypes against Maize Stem borer, *Chilo partellus* (swinhoe)

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ABSTRACT

A total of 55 maize genotypes obtained from Regional Maize Research Center (RMRC) Dharwad, Karnataka including with a resistant check, DHM 117 and a susceptible check, 30v92 were screened against stem borer, *Chilo partellus* during *kharif* 2013 under natural field conditions. Among these, 22 genotypes including checks were selected for further screening during *rabi* 2013-14 & 2014-15. Among the 20 maize genotypes, fifteen exhibited a damage score of 1.2 to 2.2, where ST X BM 254-1 (1.2), Dhk 12 X 5321 (1.3), ST X BM 32 (1.3), ST X 5422 (1.3), ST X BM 258-1 (1.4) and ST X BM 59-3(1.4) were designated as resistant. The remaining genotypes P3596, Dhk 12 X CM 1504, DHM 117, Dhk 12 X CM 142, ST X 5311, ST X 5416, ST X BM 254-3 and Dhk 12 X CM 151 were moderately resistant ranging from 1.6 to 1.8. The genotypes ST X BM 59-1(1.9) and P3396 (2.2) are designated as intermediate resistant. The highest intensity of damage was recorded in susceptible check 30v92 (3.5) which was followed by Dhk X CM 135 (3.0), ST X RNBL 4611 (2.8), Dhk 12 X CM 213, Dhk 12 X CM 138 (2.5) and Dhk 12 X 5304 (2.3) which were designated as susceptible to stem borer, *C. partellus*.

Key words: *Chilo partellus*, Maize genotypes, Screening.