

Field Screening of Blackgram Genotypes against Whitefly (*Bemisia Tabaci* Genn.)

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ABSTRACT

An experiment was conducted to screen 25 blackgram genotypes including six checks against whitefly population at the Agricultural College Farm, Bapatla during *kharif* and *rabi*, 2017-18. The genotypes, KU-17-114 and KU-17-130 recorded minimum population of whiteflies (1.59 and 3.70 per plant respectively). KU-17-114, having low preference for the whiteflies has recorded higher trichome density (43.33 trichomes/ cm²), higher amount of total phenol content (12.34 and 10.35 mg, during vegetative and reproductive stages, respectively) and lesser quantity of total sugars (33.86 and 26.24 mg, during vegetative and reproductive stages, respectively). The whitefly population was positively correlated with leaf area, total sugars whereas, negatively correlated with leaf thickness, trichome density and total phenol content.

Key words: *Blackgram, Phenols, Total sugars, Trichomes, Whiteflies.*