

# Morphological characters of tomato in relation to resistance against tomato fruit borer, *Helicoverpa armigera* (Hubner)

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## ABSTRACT

The study on relation of morphological characters to fruit infestation of *H. armigera* was conducted in College Farm, N.M.C.A, Navsari Agricultural University, Navsari, Gujarat during two consecutive years 2012-13 and 2013-14. The result showed that the correlation of plant height ( $r= 0.7775$ ), branches plant<sup>-1</sup> ( $r= 0.7874$ ), and fruits plant<sup>-1</sup> ( $r= 0.7388$ ) with infestation of *H. armigera* were significantly positive, while the effect of fruit pericarp thickness ( $r= -0.9576$ ) exhibited significantly negative association with the damage of tomato fruit borer. However the stem diameter, fruit diameter, locules fruit<sup>-1</sup> and calyx fruit<sup>-1</sup> showed positive but non-significant association with fruit infestation recorded 0.4855, 0.3048, 0.3413 and 0.3943 correlation values, respectively.

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