## Effect of Bt Cotton on Growth and Development of Tobacco Caterpillar, *Spodoptera litura* (Fab)

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## **ABSTRACT**

The mortality of early larval instars of S. litura was higher compared to the later instars on both the leaves and squares of  $Bt_2$  cotton hybrids. Moreover the mortality on leaves was higher compared to squares for all the larval instars in  $Bt_2$  (Tulasi4BGII) compared to  $Bt_1$  (Tulasi4Bt) and non-Bt (Bunny) cotton hybrids. Exposure of later instar larvae of S. litura to plant parts of  $Bt_2$  cotton hybrids exhibited reduced larval weight, prolonged larval development period, reduced pupation, formation of small pupae with less weight, reduced adult emergence and low growth and survival index compared to  $Bt_1$  and non-Bt cotton hybrids.

**Key words**: Bt<sub>1</sub>, Bt<sub>2</sub>, Non- Bt cotton hybrids, Spodoptera litura.