

## عنوان مقاله:

(Temperature-dependent life table parameters of *Galleria mellonella* (L.) (Lepidoptera: Pyralidae)

## محل انتشار:

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## خلاصه مقاله:

The effect of temperature on demographic parameters of the greater wax moth, *Galleria mellonella* (L.) was studied at ۲۳, ۲۵, ۲۷, and ۳۰ °C,  $50 \pm 10\%$  RH and a photoperiod of ۱۶:۸ (L: D) h. The life table parameters were estimated according to the age-stage, two-sex life table procedure. In addition, the bootstrap technique was employed for estimating the means, variances, and standard errors of the population parameters at all studied temperatures. All estimated parameters were affected considerably by temperature. Among examined temperatures, the highest values of net reproductive rate ( $R_0$ ), intrinsic rate of increase ( $r_m$ ) and finite rate of increase ( $\lambda$ ) were ۲۲۳.۰۴ egg, ۰.۰۹۶ day<sup>-۱</sup>, and ۱.۱۰۱day<sup>-۱</sup>, respectively at ۲۷ °C. The lowest mean generation time was ۵۰.۳۱ day at ۳۰ °C. Moreover, the highest reproductive value was observed at ۲۷ °C. According to the results, temperature can affect all life table parameters of *G. mellonella*, and according to our investigation, ۲۷ °C is the best temperature for its mass rearing in laboratory condition among the evaluated temperatures.

## کلمات کلیدی:

*Galleria mellonella*, Life history, temperature

## لینک ثابت مقاله در پایگاه سیویلیکا:

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