

## عنوان مقاله:

Demographic Analyses of Resistance of Five Varieties of Date Palm, *Phoenix dactylifera* L. to *Ommatissus lybicus* De Bergevin (Hemiptera: Tropicuchidae)

## محل انتشار:

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## خلاصه مقاله:

Demographic analyses of dubas bug, *Ommatissus lybicus* de Bergevin, (Hemiptera: Tropicuchidae), reared on five date palm varieties (Zahdi, Mazafati, Piarom, Khasi, and Shahani) were constructed under laboratory conditions at  $27 \pm 1^\circ\text{C}$ ,  $70 \pm 5\%$  RH, and a 14:10 hours (L: D) photoperiod. Data were analyzed based on the age-stage, two-sex life table theory to take the variable developmental rate among individuals and both sexes into consideration. Results showed that different varieties of date palm influenced development time and fecundity of dubas bug. The total pre-adult developmental time was the shortest on Zahdi (85.21 days) and the longest on Khasi (88.39 days). The longevities of both male and female adults on different varieties were significantly different. The mean fecundity per female was significantly higher on Zahdi (78.62 eggs) and Mazafati (68 eggs) than on Shahani (43.53 eggs) and Khasi (46.32 eggs). The highest and lowest net reproductive rates were obtained on Zahdi (40.58 offspring per individual) and Shahani (16.88 offspring per individual), respectively. The intrinsic rates of increase were 0.0401, 0.0368, 0.0355, 0.0312 and 0.0301 per day on Zahdi, Piarom, Mazafati, Khasi and Shahani, respectively. The mean generation times ranged from 92.78 days reared on Zahdi to 95.25 days on Mazafati. According to results obtained in this study, Shahani and Khasi were the most resistant varieties while Zahdi was the most susceptible variety to dubas bug among the varieties tested.

## کلمات کلیدی:

Demography, Date palm variety, Dubas bug

## لینک ثابت مقاله در پایگاه سیویلیکا:

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