عنوان مقاله:

(Bottom-up Effect of Two Host Plants on Life Table Parameters of Aphis gossypii (Hemiptera: Aphididae

محل انتشار:

مجله علوم و فناوري كشاورزي, دوره 18, شماره 1 (سال: 1394)

تعداد صفحات اصل مقاله: 12

نویسندگان:

- Z. Tazerouni Deparment of Entomology, College of Agriculture, Tarbiat Modares University, P. O. Box: IFII&-PPF,

 .Tehran, Islamic Republic of Iran
- A. A. Talebi Department of Entomology, College of Agriculture, Tarbiat Modares University, P. O. Box: ۱۴۱۱۵-۳۳۶, .Tehran, Islamic Republic of Iran
- Y. Fathipour Department of Entomology, College of Agriculture, Tarbiat Modares University, P. O. Box: IFII۵-٣٣۶,
 .Tehran, Islamic Republic of Iran
- M. Soufbaf Agricultural, Medical and Industrial Research School, P. O. Box: พาศมอ/ศาม, Karaj, Islamic Republic of .Iran

خلاصه مقاله:

Aphis gossypii Glover is one of the most important pests of greenhouse cucumber and pepper in the world and Iran. In this research, life table and biology of A. gossypii were investigated on cucumber (Cucumis sativus cv. Super Sultan) and pepper (Capsicum annum cv. Marqueza) in a growth chamber at ΥΔ±1°C and ۶°±Δ% RH and a photoperiod of 1°F L: 1° D hour. The results showed that developmental time of A. gossypii on pepper was significantly longer than that on cucumber. The survival rates of A. gossypii on cucumber and pepper were significantly different based on Kolmogrov-Smirnov test results. The survival rates (Ix) at the beginning of female emergence were 4°F and 5°F% on cucumber and pepper, respectively. Life expectancy (ex) of the newly-bornnymphs of A. gossypii were obtained as Υ΄Ρ. Ψ΄ and 1°F. F days on cucumber and pepper, respectively. The highest age-specific daily fecundity of A. gossypii was at the Δth and 7th days of female adult age on cucumber and from first to Fth days of female adult life on pepper. Furthermore, two mathematical models (Analytis and Enkegaard) were fitted to age-specific fecundity data (mx). Adult longevity of A. gossypii on cucumber was significantly higher than that on pepper. The R°, rm and λ-values of A. gossypii on cucumber were significantly higher than those on pepper. The cotton aphid exhibited longer mean generation time (T) on pepper than that on cucumber. According to the growth index and life table statistics, cucumber was the suitable host plant for A. gossypii

کلمات کلیدی:

Aphid, Cucumber, Demography, Iran, Pepper

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1826475



