

Biology of predatory mite, *Amblyseius longispinosus* (Evens) (Acari: Phytoseiidae) on broad mite, *Polyphagotarsonemus latus* (Banks)

■ SANCHIT S. MANDAPE AND ABHISHEK SHUKLA*

Department of Entomology, N.M. College of Agriculture, Navsari Agricultural University, NAVSARI (GUJARAT)
INDIA

ARTICLE INFO

Received : 18.12.2016
Revised : 01.03.2017
Accepted : 07.03.2017

KEY WORDS :

Biology, Predatory mite,
A. longispinosus, *P. latus*

ABSTRACT

Biological parameters of *A. longispinosus* was recorded by feeding on broad mite, *P. latus* at Acarology Laboratory, Department of Entomology, Navsari Agricultural University, Navsari, Gujarat during April to June of the year 2014 and 2015. The results indicated that the mean of immature period for egg, larvae, protonymph and deutonymph were 2.33 ± 0.49 , 3.73 ± 0.70 , 4.53 ± 0.52 and 4.67 ± 0.72 days, respectively when feed on *P. latus*. The total developmental period completes in 15.26 ± 0.68 days, while the pre-oviposition, oviposition and post-oviposition period took 5.53 ± 0.51 , 15.73 ± 0.45 and 4.13 ± 0.51 days. The period of adult longevity for male and female were 9.00 ± 0.95 and 25.39 ± 0.45 days, respectively. A single female laid on an average 30.00 ± 2.77 eggs in her life span when reared on *T. urticae* under the laboratory conditions.

How to view point the article : Mandape, Sanchit S. and Shukla, Abhishek (2017). Biology of predatory mite, *Amblyseius longispinosus* (Evens) (Acari: Phytoseiidae) on broad mite, *Polyphagotarsonemus latus* (Banks). *Internat. J. Plant Protec.*, **10**(1) : 58-62, DOI : 10.15740/HAS/IJPP/10.1/58-62.

*Corresponding author:

Email : shuklafrs.nau@gmail.com