

Species diversity and population dynamics of fruit flies in bitter gourd ecosystem

■ Mahesh Math*, Y. K. Kotikal¹ and Venkateshalu¹

Agricultural and Horticultural Research Station, Kapikad, Ullal, Mangaluru (Karnataka) India

¹Department of Entomology, College of Horticulture, University of Horticultural Sciences, **Bagalkot (Karnataka) India**

ARTICLE INFO

Received : 13.01.2019

Revised : 25.02.2019

Accepted : 07.03.2019

KEY WORDS :

Bitter gourd, Species diversity,
Population dynamics, *Bactrocera*
cucurbitae, *Bactrocera* spp.

*Corresponding author:

Email : maheshento@gmail.com

ABSTRACT

Studies related to species diversity and seasonal incidence of fruit flies in drumstick ecosystems were conducted at University of Horticultural Sciences (UHS), Udyanagiri, Bagalkot, India during *Rabi* 2015-16 and *Kharif* 2016. During *Rabi* 2015 Shannon Wiener index (H') of diversity of the fruit fly population was maximum ($H'=0.64$) during 6th SMW of (February) 2016. The Pielou's evenness (J') value was maximum during 6th SMW of (February) 2016 and 52nd SMW of (December) 2015 (0.92 and 0.79, respectively). The maximum Simpson diversity index value (0.66) was recorded during 6th SMW of (February) 2016. During 2016 maximum H value ($H'=0.61$) was recorded during 38th followed by 36th SMW of (September) 2016 (0.79). The Pielou's evenness (J') ranged from 0.33 to 0.88. Maximum (J') value was recorded during 38th SMW of (September) 2016 (0.88) and 36th SMW of (September) 2016 (0.79).

How to view point the article : Math, Mahesh, Kotikal, Y.K. and Venkateshalu (2019). Species diversity and population dynamics of fruit flies in bitter gourd ecosystem. *Internat. J. Plant Protec.*, 12(1) : 21-27, DOI : 10.15740/HAS/IJPP/12.1/21-27, Copyright@ 2019: Hind Agri-Horticultural Society.