INTERNATIONAL JOURNAL OF PLANT PROTECTION
VOLUME 10 | ISSUE 1 | APRIL, 2017 | 75-78

● e ISSN-0976-6855 | Visit us : *www.researchjournal.co.in*

IJPP

RESEARCH PAPER

DOI : 10.15740/HAS/IJPP/10.1/75-78

Impact of weather parameters on abundance of major defoliators of soybean

■ M.V. MATTI* AND R.O. DEOTALE

Department of Entomology, College of Agriculture, NAGPUR (M.S.) INDIA

ARITCLE INFO

Received : 05.01.2017
Revised : 04.03.2017
Accepted : 11.03.2017

KEY WORDS :
Correlation, Regression, Incidence, *Spodoptera litura, Thysanoplusia orechalsia,* Weather parameters

***Corresponding author:**
Email : muttumatti@gamil.com

ABSTRACT

Studies were under taken on seasonal incidence and relationship of weather parameters on major defoliators of soybean during *Kharif* 2014-15 at the College of Agriculture, Nagpur. Incidence of *Spodoptera litura* began during 35th standard week (0.20 $\pm$ 0.12) gradually attained maximum (1.80$\pm$0.11) during 41st standard week. Multiple regression analysis revealed that decrease in 1per cent of morning relative and evening relative humidity would lead to increase of 0.019 and 0.014 mean number of *Spodoptera* larvae per meter row length. Incidence of *Thysanoplusia orechalsia* began during 35th standard week (0.20 $\pm$ 0.15) gradually attained maximum (1.00 $\pm$ 0.12) during 42nd standard week. Population was decreased from 43rd standard week onwards, Regression analysis revealed that decrease in 1per cent of morning relative humidity would lead to increase of 0.010 mean number of larvae per meter row length, decrease in 1^{0}C of morning relative humidity would lead to increase of 2.264 per cent foliage damage.

How to view point the article : Matti, M.V. and Deotale, R. O. (2017). Impact of weather parameters on abundance of major defoliators of soybean. *Internat. J. Plant Protec.*, **10**(1) : 75-78, **DOI : 10.15740/HAS/IJPP/10.1/75-78**.