

Population dynamics of *Aphis gossypii* Glover on coriander in relation to biotic and abiotic factors

■ AHEIBAM RANILA, M.K. KANANI, J.B. BHUT* AND P.K. BORAD

Department of Entomology, B.A. College of Agriculture, Anand Agricultural University, ANAND (GUJARAT) INDIA

ARTICLE INFO

Received : 02.07.2014

Revised : 11.09.2015

Accepted : 25.09.2015

KEY WORDS :

Aphis gossypii, Population dynamics,
Biotic – abiotic factors, Coriander

ABSTRACT

Field experiment was conducted on population dynamics of *Aphis gossypii* Glover on coriander (Gujarat coriander 2) in relation to biotic and abiotic factors during winter season of 2011-12 and 2012-13. Incidence of aphid on coriander started from 3rd week of December (51st SMW) and continued till 1st week of March (10th SMW) with a peak level during 5th week of January (5th SMW). Minimum and mean temperature had highly significant negative association with aphid incidence during first year, whereas non-significant negative correlation with the pest activity during second year. The morning vapour pressure had significant negative relationship with *A. gossypii* during first year and non-significant negative association during second year. Remaining all the tested meteorological parameters showed non-significant relationship with aphid population on coriander crop during both the years. The biotic factors, viz., coccinellids and syrphids as well as their cumulative numbers showed highly significant positive correlation with aphid population during both the years.

How to view point the article : Ranila, Aheibam, Kanani, M.K., Bhut, J.B. and Borad, P.K. (2015). Population dynamics of *Aphis gossypii* Glover on coriander in relation to biotic and abiotic factors. *Internat. J. Plant Protec.*, **8**(2) : 372-374.

*Corresponding author:

Email: jjignesh1315@gmail.com