

INSECT-PEST COMPLEX ON *PISUM SATIVUM* L. AND THEIR NATURAL ENEMIES AT PANTNAGAR

Sunil Kumar Yadav* and Shweta Patel

Department of Entomology, College of Agriculture, G. B. Pant University of Agriculture and Technology, Pantnagar-263145 (U.S. Nagar) Uttarakhand

Email; 1989sunilyadav@gmail.com

Received-02.11.2015, Revised-12.11.2015

Abstract: A pest complex of about five insect pests belonging to three orders and 3 families were recorded at Pantnagar infesting the pea var. 'Pant P-13' at different stages of crop growth in an overlapping manner. Two species each belonged to the order Lepidoptera and Diptera, whereas, Hemiptera shared with one species. All the major parts of this legume plant viz., pod/seed, leaf and stem were found to be infested. Out of five insect species, two recorded as foliage feeders, one as sap suckers, one as pod feeders and one as stem feeder. Leaf miner, *Chromatomyia horticola* was observed as the major pests on pea. During the course of investigation, three species of natural enemies were found to be associated with insect pest of pea of which *Diglyphus sp.* was recorded major one.

Keywords: Insect-pest complex, natural enemies, *Pisum sativum*

REFERENCES

Bhat, D.M. and Bhagat, R.C. (2009) Natural parasitism of leaf Miner, *Chromatomyia horticola* (Goureau) (Diptera: Agromyzidae) on vegetable crops in Kashmir (India). *World Journal of Agricultural Sciences*, **5** (S): 888-891.

Bijjur, S. and Verma, S. (1995) Effect of abiotic factors on the pests of pea and natural enemies. *Indian Journal of Entomology*, **57**(3): 233-239.

Darvas, B., Andersen, A. and Thuroaczy, C.S. (1999) Generalist hymenopteran parasitoids of the leaf-miner, *Chromatomyia fuscata* (Zett.) (Dipt.: Agromyzidae). *Journal of Natural History*, **33**: 1089-1105.

Gencer, L. (2004) A Study on the chalcidoid (Hymenoptera: Chalcidoidea) parasitoids of leaf miners (Diptera: Agromyzidae) in Ankara Province. *Turk J Zool.*, **28**: 119-122.

Mekhlif, A.F. and Abdul-Rassoul, M.S. (2002) Efficacy of parasitoids of pea Leaf miner, *Phytomyza horticola* Goureau and their appearance time in the field. *Bull. Iraq nat. Hist. Mus.*, **9**(4): 27-32.

Murphy, S.T. and Lasalle, J. (1999) Balancing biological control strategies in the IPM of new world invasive *Liriomyza* leaf miners in field vegetable crops. *Biocontrol/New and Information*, **20**: 91-104.

Prasad, D., Singh, K.M. and Katiyar, R.N. (1983) Succession of insect pests in early maturing high yielding variety of pea, *Pisum sativum* Linn. *Indian j. Ent.*, **45**(4): 451-455.

*Corresponding Author