

*NESIDIOCORIS TENUIS* (REUTER) AS A POTENTIAL PREDATOR OF  
*TUTA ABSOLUTA* (MEYRICK), THEIR HOSTS, DISTRIBUTION AND  
DENSITY ON DIFFERENT VEGETABLE CROPS IN BASRAH\*  
PROVINCE

Farhan J. AL-Behadili

Alaa Sabeeh Jabbar

The search lemma from Farhan. J.Al bahadely thesis

ABSTRACT

The plant bug *Nesidiocoris tenuis* Reuter (Hemiptera: Miridae) one of predators important in the Mediterranean basin, That feed on the *Tuta absoluta*. The study purpose was survey of natural enemies on tomato leaf miner *Tuta absoluta* in Basrah province during season 2011-2012. The results show record for first time of *Nesidiocoris tenuis* as a predator of *Tuta absoluta* in Qarmet Ali / location university/ Basrah province at 4/11/2011, Therefore show *N. tenuis* presence on tomato and Snake cucurbits crops while not presence on other crops in same season in Basra province. Adults and nymphs appeared in the beginning at November 2011 (autumn season temperature is 23 °c and humidity 30%) and density increase until adults arrived 88 per 50 m and nymphs 79 per 50 m in middle December and then densities decrease in the middle of January and February (adults 75, 71 per 50 m, nymphs 74, 70 per 50 m) (15 °c & 40% r.h). Infestation appeared in the middle March to begin month of May (26 °c & 60% r.h), and found also of that the highest density (adults 155 per 50 m, nymphs 143 per 50 m) in middle April (25 °c & 65% r.h) and found lower density in July (adults 4, nymphs 6). Finally the study show distribution *N. tenuis* at different region of Basrah province and found also of that the highest density (adults and nymphs 143 per 50 m) in Qarmet Ali region and found lower densities in Alzobear region (adults and nymphs 102 per 50 m) at April.

Keywords *Nesidiocoris tenuis*. new recorded, Hosts, Distribution Density