




 Current Issue

 Browse Issues

 Search

 About this Journal

 Instruction to Authors

 Online Submission

 Subscription

 Contact Us

 RSS Feed

Acta Medica Iranica

2009;47(4) : 19-25

Original Article

Study on Ecological Growth Conditions of Cattle *Hyalomma* Ticks in Punjab, Pakistan

AZ Durrani¹, AR Shakoori²

¹Dept. of Clinical Medicine & Surgery, University of Veterinary and Animal Sciences, Lahore, Pakistan

² School of Biological Sciences, Punjab University, Lahore, Pakistan

Corresponding Author:

AZ Durrani

Dept. of Clinical Medicine & Surgery, University of Veterinary and Animal Sciences, Lahore, Pakistan

Tel: 092-042-5304937,

E-mail: Aneela_nadeem8@hotmail.com

Received: June 9,2008

Accept : January 20,2009

Available online: March 9,2009

Abstract:

Background: The survey for the prevalence of different species of cattle *Hyalomma* ticks was carried out in three districts (Rawalpindi, Multan and Lahore) of Punjab province in Pakistan. The bionomical conditions suitable for *Hyalomma* were also studied in laboratory.

Methods: One hundred specimens of ticks of different genera were collected from each district. After identification, the *Hyalomma* ticks were reared in laboratory under the influence of varying temperature and humidity.

Results: The results showed highest prevalence (67%) of ticks in district Lahore. The highest prevalence (12%) of *Hyalomma* ticks and lowest prevalence (3.1%) of *Rhipicephalus* in cattle was recorded. The bionomical study showed the highest mean pre oviposition period was during spring while it was lowest in autumn. The mean oviposition period was also highest in spring. The incubation period of the ova of *Hyalomma* varied in different seasons. No oviposition was recorded at the temperature 10⁰C and 85% humidity. The maximum number of eggs was laid at 34⁰C and lowest egg production occurred at 15⁰C. The maximum number of eggs hatched at 32⁰C and 85% humidity.

Conclusion: The variation in relative humidity had no appreciable effect on rate of development of ticks while the number of eggs laid increase with rise in temperature.

Keywords:

Hyalomma . *Preoviposition* . *Oviposition* . *Temperature* . *Humidity* . *Pakistan*

TUMS ID: 12729

Full Text HTML  Full Text PDF  76 KB

top ▲

[Home](#) - [About](#) - [Contact Us](#)

TUMS E. Journals 2004-2009
Central Library & Documents Center
Tehran University of Medical Sciences

Best view with Internet Explorer 6 or Later at 1024*768 Resolutions