

ABSTRACT

- a) Title of Thesis : Mites associated with poultry birds at Hisar
- b) Full name of degree holder : Ajmer Singh
- c) Title of degree : Master of Science
- d) Name and Address of Major Advisor : Dr. B.N. Putatunda
Professor
Department of Zoology
CCS Haryana Agricultural University
Hisar-125 004, India
- e) Degree awarding University/Institute : CCS Haryana Agricultural University
Hisar-125 004 (Haryana), India
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Poultry birds namely fowl, turkey and duck were examined for the presence of mites at Hisar. A total of 133 fowls, 5 ducks and 10 turkeys were examined. Nasal examination and examination of body parts revealed absence of mites.

The poultry feed on examination revealed the presence of 14 species of mites under 5 families. The mites observed were *Aleuroglyphus ovatus*, *Rhizoglyphus* sp., *Thyreophagus entomophagus*, *Tyrophagus* sp., *Neocypholaelaps* sp., *Hypoaspis marksii*, *Leiodynychus parasiticus*.

Cheletophanes sp., *Cheyletus eruditus*, *C. fortis*, *C. malaccensis*, *C. trouessarti*, *C. trux* and *Nodeles philippinensis*. *L-parasiticus* was the most dominant.

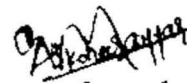
The poultry bed (soil) on examination revealed the presence of 15 species of mites under 7 families. Mites observed were *Aleuroglyphus ovatus*, *Tyrophagus* sp., *Austroglycyphagus geniculatus*, *Dendrolaelaps passalorum*, *Macrocheles tridentatus*, *M. whartoni*, *Macrocheles* sp., *Phytoseiidae* sp., *Leiodynychus parasiticus*, *Bak sanctachelenae*, *Cheyletus eruditus*, *C. malaccensis*, *C. rapax*, *C. trouessarti* and *cheyletus* sp. *A. ovatus* was the most dominant among predatory mites *Bak sanctachelenae* was the most dominant.

Out of 29 species of mites, 8 species were new to India and all others were new to Haryana off poultry.

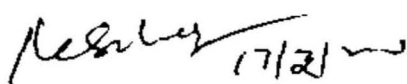
The effect of temperature and humidity was studied and it was found that mites were abundant at 20-30°C and 50-70 per cent relative humidity.



Major Advisor



(Signature of student)



Head of the Department



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