RECORDS OF CULICINE MOSQUITOES FROM BASTAR DISTRICT (MADHYA PRADESH), INDIA (DIPTERA : CULICIDAE), PART IV, GENUS - CULEX

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INTRODUCTION

The genus Culex includes many important proved/potential vectors of human diseases like Culex quinquefasciatus (vector of periodic bancroftian filariasis) and C. tritaeniorhynchus (vector of Japanese encephalitis). Some probable or potential vectors for Japanese encephalitis under the genus Culex are C. gelidus, C. fuscocephala, C. vishnui and C. pseudovishnui. The genus Culex inspite of being very important from the public health standpoint remained poorly known from Bastar district of Madhy Pradesh. The district is earlier known with a record of only 7 species under two subgenera (Barraud, 1934 : Husainy, 1981).

The present communication deals with the distribution records of 22 species under five subgenera from this district. The surveys were made during the year 1980-1982. The description of study area, climate, topography and materials & methods used, were described earlier (Rajput and Kulkarni, 1984).

The classification and nomenclature used here are mainly based on Synoptic Catalogue (Knight and Stone, 1977). Besides some recent papers, works of Barraud (1934), Bram (1967), Reuben (1969) and Sirivanakarn (1972, 1976, 1977 a & b) were consulted for identification. Identification was done mainly on adult characters. Genital characters of males and the characters of immatures were also taken into consideration whenever those forms were available.

COLLECTION RECORDS

Subgenus Culex Linnaeus
1. Culex barraudi Edwards


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2. *Culex bitaeniorhynchus* Giles


3. Culex edwardsi Barraud


4. Culex epidesmus (Theobald)


5. Culex fuscocephala Theobald


Present records: Adawal—6 ♀♂, 2 ♂♀ between 11 Jul. '80 and 9 Nov. '81 from

6. *Culex gelidus* Theobald


7. *Culex mimulus* Edwards


8. *Culex pseudovishnui* Colless


9. Culex quinquefasciatus Say


10. *Culex sinensis* Theobald


11. *Culex tritaeniorhynchus* Giles


12. *Culex vishnui* Theobald

*Present records* : *Adawa*—1 ♀ (20 Aug. '81) from herb vegetation, 2 ♀ ♂ (28 Mar. '81) larvae reared from rock pool. *Bhond*—1 ♀, 1 ♂ (4 Aug. '81) from herb

13. Culex whitmorei (Giles)


Records of the Zoological Survey of India


Subgenus Culicomyia Theobald

14. Culex nigropunctatus Edwards


15. Culex pallidothorax Theobald


Subgenus Eumelanaomyia Theobald

16. Culex brevipalpis (Giles)


Present records: 4 ♀♂, 5 ♂♂ between 2 Oct. '80 and 8 Jan. '82 from herb vegetation. Bringpal - 1 ♂ (15 Jun. '81), from herb vegetation. Chindawada - 1 ♂
R. Al-Rajjat & K. Ulkarni: On Culicinae Mosquitoes


17. Culex malayi (Leicester)


18. Culex pluvialis Barraud


Present records: Darbha - 2♀♀, 2♂♂ (23 Mar. '81), Kurandi - 1♀ (12 Dec. '80),
Tahakapal - 1 ♀ (27 May '81). All the mosquitoes were collected from herb vegetation.

Subgenus Lophoceraomyia Theobald

19. Culex minor (Leicester)


Present records : Bhond - 1 ♀, 1 ♂ (4 Aug. '81) larvae reared from tree hole. Darbha - 1 ♂ (23 Mar. '81) larvae reared from rock pool, 4 ♀♀, 6 ♂♂ (16 Sept. '81) larvae reared from tree hole. Dhaniyalur - 1 ♂ (30 Jul. '81) larvae reared from tree hole, 7 ♀♀, 10 ♂♂ (13 Aug. '81) larvae reared from discarded pitcher.

20. Culex minutissimae (Theobald)


RAJPUT & KULKARNI: On Culicinae Mosquitoes

Subgenus Lutzia Theobald

21. Culex fuscanus Wiedemann


22. Culex halifaxi Theobald


pallidothorax, C. brevipalpis, C. malayi, C. ptuvialis, C. minor, C. minutissimus, C. fuscanus and C. halifaxii. The distribution records for these species were also included in the paper.

ACKNOWLEDGEMENTS

The authors are thankful to the Director, National Institute of Communicable Diseases, Delhi for providing facilities at the Field Operational Research Station, Jagdalpur, Bastar district (Madhya Pradesh).

REFERENCES


