



## Description of the immature stages and redescription of the adults of *Culex (Culex) lahillei* Bachmann & Casal (Diptera: Culicidae)

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### Abstract

The pupa and fourth-instar larva of *Culex (Culex) lahillei* Bachmann & Casal are described and illustrated for the first time and the adults redescribed. Information is provided on the distribution, bionomics and taxonomy of the species.

**Key words:** *Culex (Culex) lahillei*, description, immature stages

### Introduction

*Culex (Culex) lahillei* was described by Bachmann & Casal (1962) based on material deposited in the Administración Nacional de Laboratorios e Instituto de Salud (ANLIS) “Dr. Carlos G. Malbrán”, Buenos Aires, Argentina, collected by Del Ponte in 1938 in Achiras, province of Córdoba, Argentina. The authors characterized the adults. The description of the pupa was limited to a schematic reconstruction with incomplete chaetotaxy of the metanotum and abdominal segments I–VIII. No details of the larva were given.

The purpose of this paper is to provide the first complete description of the pupa and fourth-instar larva and redescribe the adults of *Cx. lahillei*.

### Material and methods

The holotype, allotype, a paratype and a pupal exuviae mounted in Faure, deposited in the ANLIS, were studied. Additional material included pinned adults and pupal and larval exuviae from Copina, province of Córdoba, Argentina mounted on microscope slides in Canada balsam. The voucher specimens from Copina, are deposited at Centro de Investigaciones Entomológicas de Córdoba (National University of Córdoba).

Morphological terminology follows Harbach (2011) except for the siphon index, which is calculated measuring the siphon at base (Harbach *et al.* 1984). Life stages are indicated as follows: M (male), MG (male genitalia), F (female), FG (female genitalia), Pe (pupal exuviae) and Le (larval exuviae). An asterisk following an abbreviation indicates that the life stage was at least partially illustrated in the publication cited. Measurements are given in millimeters as a range followed by a mean in parentheses. Means and ranges are only provided for the adults. Because the description of the larva is based on the only known specimen and that of the pupa on only two specimens, neither means nor modes are provided, only the number of branches from each side of the body.