

1939

A Preliminary List of the Mycetophilidae (Diptera) Known to Occur in Iowa

H. E. Jaques
Iowa Wesleyan College

B. G. Berger
Iowa Wesleyan College

Copyright © Copyright 1939 by the Iowa Academy of Science, Inc.
Follow this and additional works at: <https://scholarworks.uni.edu/pias>

Recommended Citation

Jaques, H. E. and Berger, B. G. (1939) "A Preliminary List of the Mycetophilidae (Diptera) Known to Occur in Iowa," *Proceedings of the Iowa Academy of Science*: Vol. 46: No. 1 , Article 125.
Available at: <https://scholarworks.uni.edu/pias/vol46/iss1/125>

This Research is brought to you for free and open access by UNI ScholarWorks. It has been accepted for inclusion in Proceedings of the Iowa Academy of Science by an authorized editor of UNI ScholarWorks. For more information, please contact scholarworks@uni.edu.

A PRELIMINARY LIST OF THE MYCETOPHILIDÆ
(DIPTERA) KNOWN TO OCCUR IN IOWA

H. E. JAQUES AND B. G. BERGER

The Dipterous family Mycetophilidae is composed of small to medium sized flies, ranging from two to nine millimeters in length. These fungus-gnats are numerous both in species and in number of individuals to be found in a local habitat. Characteristics of the legs that are particularly noticeable are as follows: elongated coxae, thickened femur and, spured and setose tibia. The adult resembles a mosquito in that it has a small head, antennae with twelve to seventeen joints and a highly arched thorax. Predominating colors are yellow and black; the abdominal segments often have alternate bands of black and yellow. The males have a complex hypopygia, which is important in the identification of the species.

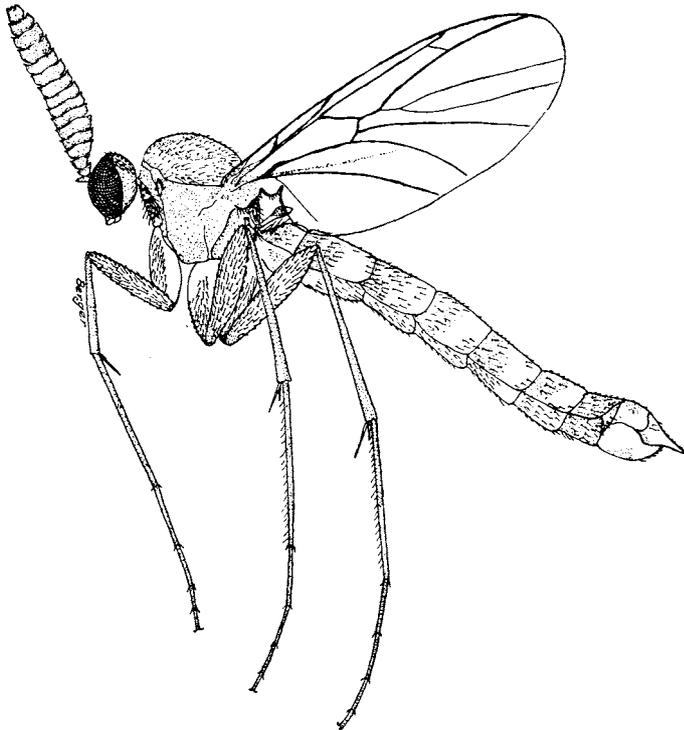


Fig. 1. *Ceroplatus militaris* Joh. ♂



Fig. 2. *Leia bivittata* (Say.) ♂

Adults of the species are found around decaying wood and fungi, along shaded streams and on damp or mossy rocks. In the spring of the year, a large number may be found around damp decaying leaves. The larvae are very common in or on the fungi, and often a great number are present in a single mushroom. The most satisfactory way in which to collect them is to use a sweeping net in an ideal habitat. With a few quick movements of the net the collector should force the small flies into the bottom of the net. By then grasping the net about three inches above the bottom the flies and other insects are kept in the end of the net so that it, with its contents may be thrust into a quart cyanine jar.¹ After a few minutes, depending upon the strength of the jar and the amount of insects caught the net may be opened and the desirable insects picked out by using a vacuum collector.²

¹ A tin can with a quarter-turn lid is better because it does not break but the collector cannot see the condition of the insects in the net through the tin can.

² See, "How to Know the Insects," Jaques, Fig. 10, p. 14.

We are very grateful to Miss. E. G. Fisher, Mr. C. T. Greene and Mr. A. Stone for the determination of the species.

The list which follows is a record of the Mycetophilidae in the Iowa Insect Survey Collection at Iowa Wesleyan College. Summer work of the survey is largely done at the Iowa Lakeside Laboratory and in connection with state wide trips associated with the Laboratory research.

<i>Ceroplatus militaris</i> Joh.	<i>Exechia ovata</i> E. G. F.
<i>Platyura genualis</i> Joh.	<i>Mycetophila fastosa</i> Joh.
<i>Sciophila novata</i> Joh.	<i>Mycetophila inculta</i> Lw.
<i>Sciophila pallipes</i> Say	<i>Mycetophila mutica</i> Lw.
<i>Neoempheria balioptera</i> Lw.	<i>Mycetophila perita</i> Joh.
<i>Mycomya tantilla</i> Lw.	<i>Mycetophila punctata</i> Meigen
<i>Leia bivittata</i> Say	<i>Mycetophila quatuornotata</i> Lw.
<i>Leia oblectabilis</i> Lw.	<i>Mycetophila socia</i> Joh.
<i>Leia opima</i> Lw.	<i>Mycetophila mitis</i> (Joh.)
<i>Leia dryas</i> Joh.	<i>Mycetophila fungorum</i> Deg.
<i>Leia plebaja</i> Joh.	<i>Mycetophila scalaris</i> Lw.
<i>Docosia dichroa</i> Loew	<i>Zygomia ornata</i> Lw.
<i>Cordyla volucris</i> Joh.	<i>Zygomia interrupta</i> Moff.
<i>Allodia beata</i> Joh.	

IOWA WESLEYAN COLLEGE,
MT. PLEASANT, IOWA.