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A STUDY OF THE MEMBRACIDAE KNOWN TO OCCUR IN IOWA

DON W. HOOKOM

The writer has collected Membracids in several localities for some time, and also has exchanged specimens with collectors in this and other parts of the country. The specimens have been classified and are in the collection of Iowa Wesleyan College.

The writer has compared his list with those listed by Dr. W. D. Funkhouser, authority on Membracidae at the University of Kentucky in his World catalog of Membracidae, and those listed by Herbert Osborn in the Iowa Academy of Science Proceedings of 1891.

The Membracids are characterized by the extreme development of the pronotum, which covers the mesonotum and metanotum and often completely covers the abdomen, the presence of two ocelli, only, the poorly developed hair-like antennae situated below and slightly in front of the eyes, the trimerous tarsi, and the usually membranous and characteristically veined wings.

The members of this family are primarily tree and shrub inhabiting insects; a few species may be taken in sweeping but the great majority are to be found on the lower branches of trees and particularly on small sapplings, bushes and shrubs. They are sun-loving creatures and are found oftenest on plants growing in open fields, along roadsides, and at edge of timbers. They are seldom seen in shady woods.

The author wishes to recognize the help of Harlow B. Mills, who so kindly sent a representative collection from Ames, Iowa, and several Iowa Wesleyan students, who collected specimens.

A list of Membracidae known to occur in Iowa follows. (F.) are those listed in Funkhouser's Catalog for Iowa. (C.) are those listed in the Iowa Academy of Science Meeting in 1891 by Herbert Osborn. (H.) are those that the author has found to be in Iowa. All these species may be found in either the Collection at Iowa Wesleyan College at Mt. Pleasant, or the Iowa State College Collection at Ames, Iowa.

BIOLOGY DEPARTMENT
IOWA WESLEYAN COLLEGE,
MT. PLEASANT, IOWA.

List of Membracidae That Should Occur in Iowa

Campylenchia curvata (Fab.)	(O.)	(O.)	(H.)
Campylenchia latipes (Say)	(F.)	(H.)	(H.)
Enchenopa binotata (Say)	(F.)	(O.)	(H.)
Acutalis semicrema (Say)	(F.)	(H.)	(H.)
Acutalis tartarea (Say)	(F.)	(H.)	(H.)
Ceresa borealis (Fairm.)		(H.)	(H.)
Ceresa brevicornis (Fitch)		(O.)	
Ceresa bubalis (Fab.)	(F.)	(O.)	(H.)
Ceresa constans (Walker)		(H.)	(H.)
Ceresa taurina (Fitch)	(F.)	(H.)	(H.)
Ceresa diceros (Say)	(F.)	(O.)	(H.)
Microtalis calva (Say)	(F.)	(H.)	(H.)
Stictocephala festina (Say)	(F.)	(O.)	
Stictocephala lutea (Walker)		(H.)	(H.)
Stictocephala inermis (Fab.)	(F.)	(O.)	(H.)
Archasia belfragei (Stal)	Iowa State College Collection		
Archasia galeata (Fab.)	(F.)	(O.)	(H.)
Carynota miera (Say)	(F.)	(O.)	(H.)
Carynota monticola (Fab.)		(H.)	(H.)
Glossonotus auminatus (Fab.)	(F.)	(O.)	(H.)
Glossonotus crataegi (Fitch)	(F.)	(O.)	(H.)
Glossonotus turriculatus (Emm.)		(H.)	(H.)
Glossonotus univittatus (Harris)	(F.)	(O.)	
Heliria cristata (Fairm.)		(O.)	(H.)
Heliria fagi (Fitch)		(O.)	
Heliria gibberata (Ball)	(F.)		
Heliria scalaris (Fairm.)		(H.)	(H.)
Heliria strombergi (Goding)		(H.)	(H.)
Telamona ampelopsidis (Harris)		(O.)	(H.)
Telamona collina (Walker)	(F.)		
Telamona compacta (Ball)	(F.)		
Telamona extrema (Ball)	(F.)		(H.)
Telamona jugata (Oshorn)	(F.)	(O.)	
Telamona lugubris (Ball)	(F.)		
Telamona monticola (Fab.)		(O.)	
Telamona obsoleta (Ball)		(H.)	(H.)
Telamona projecta (Butler)		(H.)	(H.)
Telamona reclinata (Fitch)		(O.)	(H.)
Telamona tiliae (Ball)	(F.)		
Telamona tristis (Fitch)		(O.)	(H.)
Telamona unicolor (Fitch)	(F.)	(O.)	(H.)
Telamona viridia (Ball)	(F.)		
Telamona westcottii (Goding)	(F.)		(H.)
Telonaca pyramidata (Uhler)		(H.)	(H.)
Telonaca tremulata (Ball)		(H.)	(H.)
Thelia bimaculata (Fab.)		(O.)	(H.)
Thelia uhleri (Stal)		(O.)	
Atymna helena (Woodruff)		(H.)	(H.)
Atymna inornata (Say)		(O.)	
Atymna querci (Fitch)	(F.)	(O.)	(H.)
Cyrtolobus arcuatus (Emm.)		(H.)	(H.)
Cyrtolobus fuscipennis (Van D.)		(H.)	(H.)
Cyrtolobus griseus (Van D.)		(H.)	(H.)
Cyrtolobus maculifrons (Emm.)		(H.)	(H.)
Cyrtolobus pallidifrons (Emm.)		(H.)	(H.)
Cyrtolobus rufulus (Woodruff)		(H.)	(H.)
Cyrtolobus vau (Say)		(H.)	(H.)
Ophiderma salamandra (Fairm.)	(F.)	(O.)	
Smilia camelus (Fab.)	(F.)	(O.)	(H.)
Xantholobus muticus (Fab.)		(H.)	(H.)
Entylia bactriana (Germar)	(F.)		
Entylia concisa (Walker)		(H.)	(H.)
Entylia sinuata (Fab.)		(O.)	
Pubilia concava (Say)	(F.)	(O.)	(H.)
Vanduzeei arguata (Say)		(O.)	(H.)
Microctonus curvatus (Stal)		(O.)	