
Membracidae in a Southern Oklahoma Woods¹

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During the season of 1962 regular collections of treehoppers (Homoptera, Membracidae) were made in an oak-hickory woods at the eastern edge of Ada, Pontotoc County, Oklahoma. This woods has an area of 7.5 acres and covers both sides of a ravine which runs roughly in a north-south direction. In the floor of the ravine is a small stream which flows irregularly. Collections were made at least weekly—and frequently more often—from early April until three weeks following the first frost which occurred on November 8, 1962. Collections were made with beating nets

¹This work was supported in part by Frontiers of Science Foundation of Oklahoma, Inc. Significant assistance also was received from Duane Menefee of Ada, Oklahoma.

at ground level, while climbing trees, and with a net at the end of a twenty foot bamboo pole.

Treehopper adults first appeared at the time leaves were about half grown. The first specimens were collected on April 28.

Included here are: (1) a list of collected species, (2) a discussion of seasonal incidence and, (3) a species-host list.

1. List of species

Subfamily Membracinae (Stal)

Enchenopa binotata (Say)

Subfamily Smilliinae (Stal)

Tribe Polyglyptini Goding

Publilia concava (Say)

P. reticulata Van Duzee

Vanduzeea arquata (Say)

Tribe Smillini Goding

Cyrtolobus arcuatus (Emmons)

C. fenestratus (Fitch)

C. fuliginosus (Emmons)

C. griseus Van Duzee

C. helena Woodruff

C. inermis (Emmons)

C. maculifrontis (Emmons)

C. pallidifrontis (Emmons)

C. tuberosus (Fairmaire)

C. vau (Say)

Ophiderma evelyna Woodruff

O. flava Goding

O. grisea Woodruff

O. pubescens (Emmons)

Smillia camelus (Fabricius)

Xantholobus lateralis Van Duzee

X. muticus (Fabricius)

Tribe Telamonini Goding

Archasia galeata (Fabricius)

Carynota mera (Say)

Telamona monticola (Fabricius)

T. tillae Ball

T. unicolor Fitch

Tribe Ceresini Goding

Stictocephala bubalus (Fabricius)

S. lutea (Walker)

S. palmeri (Van Duzee)

2. Seasonal incidence

Enchenopa binotata was collected in late May and early June. *Publilia concava* was found in late April; *P. reticulata* was collected in late May. *Vanduzeea arquata* was found in early July. The members of the Tribe Smillini appeared from early May until late June with the exception of *Smillia camelus* which was found in late April and early May. The

Telamonini were collected from early May until early July. *Stictocephala bubalus* was found in late May. *S. lutea* was found from late April to late May and then again from late September until mid-November, about one week after the first frost. This indicated the occurrence of two broods, a condition that was not found for this species in Wisconsin (Dennis and Dicke, 1953). *S. palmeri* was collected from early to mid-July.

Generally, as we found in Wisconsin, the males are active before the females, but the females persist longer than the males.

3. Species-host list

Enchenopa binotata

Post oak, white sweet clover

Pubilia concava

"Grass"

P. reticulata

"Grass"

Vanduzeeia arquata

"Weeds"

Cyrtolobus arcuatus

Blackjack oak, post oak

C. fenestratus

Shumard's oak

C. fuliginosus

Black oak

C. griseus

Blackjack oak

C. helena

Post oak

C. inermis

Post oak, Shumard's oak

C. maculifrontis

Black oak, blackjack oak, bitternut hickory, post oak

C. pallidifrontis

Chinquapin oak, post oak

C. tuberosus

Bitternut hickory, blackjack oak, chinquapin oak, post oak, Shumard's oak

C. vau

Blackjack oak, chinquapin oak, post oak, Shumard's oak

Ophiderma evelyna

Blackjack oak, Shumard's oak

O. flava

Black oak, blackjack oak, post oak

O. grisea

Black oak

- O. pubescens*
Shumard's oak
- Smilia camelus*
Blackjack oak, chinquapin oak, post oak
- Xantholobus lateralis*
Bitternut hickory
- X. muticus*
Blackjack oak
- Archasia galeata*
Blackjack oak, chinquapin oak, post oak
- Carynota mera*
Bitternut hickory
- Telamona monticola*
Bitternut hickory, chinquapin oak
- T. tillae*
Chinquapin oak
- T. unicolor*
Bitternut hickory
- Stictocephala bubalus*
White sweet clover
- S. lutea*
"Grass", *Psoralea tenuiflora* Pursh, white sweet clover
- S. palmeri*
Chinquapin oak, "grass"

LITERATURE CITED

- Dennis, Clifford J. and Robert J. Dicke. 1953. The Membracidae of the University of Wisconsin Arboretum. Trans. Wisc. Acad. Sci., Arts and Letters 42:131-141.
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