

XXII. SOME OKLAHOMA HEMIPTERA.*

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This paper brings up to date in so far as is possible our knowledge concerning the Hemiptera of the State. It consists of (1) a list of species of Hemiptera collected by T. H. Hubbell during 1918 near Fort Sill, Oklahoma, (2) a list of species taken by H. M. Hefley, Jr., in the Arbuckle Mountains near Dougherty, Oklahoma, June 1924, (3) a list of species taken by the author and G. S. Caughon on the University of Oklahoma Museum of Zoology Expedition of 1925 in McCurtain, Le Flore, Choctaw, and Pushmataha Counties, and (4) a list of the Hemiptera from Oklahoma recorded in the literature.

The writer is greatly indebted to Dr. R. F. Hussey of the Zoology Department of Washington Square College, New York University, for the identification of all species except those of the family Cicadidae. The latter were identified by Mr. W. T. Davis to whom I am also very grateful.

I.

Hemiptera from Fort Sill, Oklahoma, collected in 1918 by T. H. Hubbell, and deposited in Mus. Zool. Univ. Michigan. Identified by R. F. Hussey and H. G. Barber.

Pentatomidae:

Brochymena cariosa Stal.—Oct. 14; Dec. 11.

Brochymena quadripustulata (Fabricius).—Oct. 14; Dec. 11.

Mecidea longula (Fabricius).—Dec. 1.

Euschistus tristigmus pyrrhocerus (H. S.).—Dec. 11.

Meneles insertus (Say).—Oct. 18.

Acrosternum hilare (Say).—Nov. 23.

Mineus strigipes (H. S.).—Oct. 18; Dec. 11.

Thyanta custator (Fabricius).—Nov. 23; Dec. 1.

Coreidae:

Acanthocephala terminalis (Dallas).—Oct. 14.

Anasa tristis (DeGeer).—Oct. 14.

Chelinidea vittigera Uhler.²—Oct. 14.

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²Natural food-plant, cactus. Introduced into Australia recently to aid in subduing cacti.

Chariesterus antennator (Fabricius).²—Nov. 23.

Leptocoris trivittatus (Say).—Oct. 14.

Lygaeidae:

Lygaeus kalmii Stal.—Oct. 14.

Pyrrhocoridae:

Largus [= *Euryophthalmus*] *succinctus* (Linne).—Nov. 23.

Reduviidae:

Arilus cristatus (Linne).—Oct. 14; Nov. 23.

Gelastocoridae:

Gelastocoris sp. (*foeculatus* Fabr.). Oct. 14.

II.

Hemiptera from vicinity of Dougherty, Murray County, Oklahoma collected by H. M. Hefley, Jr., under the direction of the author; the specimens are now in the University of Oklahoma Museum of Zoology.

Coreidae:

Chariesterus sp. nymphs (*C. antennator* Fabr., certe).

OE 49. VI. 8. 24. On cactus plant.

Harmostes reflexulus (Say)

OE 712. VI. 25. 24.

Lygaeidae:

Oncopeltus fasciatus (Dallas).

OE 568. VI. 24. 24. On milkweed.

OE 592. VI. 24. 24. On milkweed.

OE 595. VI. 24. 24. On milkweed.

Lygaeus kalmii kalmii Stal.

OE 573. VI. 24. 24. On flowers.

Reduviidae:

Stenopoda cinerea Laporte.

OE 103. VI. 11. 24. Near lights.

Miridae:

Lygus ? sp.

OE 447. VI. 19. 24.

²Natural food-plant, *Euphorbia* sp. Other species of this genus serve as intermediate vectors for flagellates causing dermatitis in American tropics; the flagellates occur in latex of Euphorbias, are ingested by the bugs, bugs eaten by lizards, and the protozoans may be demonstrated in lizards. Cf Strong, Amer. Jour. Trop. Med., 1924.

Cicadidae:

Diceroprocta vitripennis (Say).²

OE 512. VI. 20. 24.

OE 527. VI. 23. 24. On tree.

OE 748-751. VI. 26. 24. Near light.

OE 758. VI. 26. 24. Near light.

OE 901-903. VI. 27. 24. Near light.

OE 905. VI. 27. 24. Near light.

OE 285. VI. 16. 24.

III.

Hemiptera from McCurtain, Le Flore, Choctaw and Pushmataha Counties, Oklahoma, collected by the author and G. S. Caughron during June and July 1925. The specimens are in the University of Oklahoma Museum of Zoology.

Pentatomidae:

Brochymena quadripustulata (Fabr.).

H. 217. VI. 23. 25. 10 miles S. E. of Broken Bow, McCurtain Co.

Euschistus tristigmus pyrrhocerus (Herich-Schaeffer).

H. 14. VI. 13. 25. 18 miles S. W. of Wister, Le Flore Co.

Trichopepla semivittata (Say).

H. 504. VII. 12. 25. 4 miles S. of Grant, on Red River, Choctaw Co.

Hymenarcys nervosa (Say).

H. 278. VI. 27. 25. 10 miles S. E. of Broken Bow, McCurtain Co.

Menecles insertus (Say).

H. 317. VII. 1. 25. Red River, 1 mile west of Arkansas line, McCurtain Co., 3 specimens.

H. 416. VII. 2. 25. Data as for preceding.

Coreidae (sens. lat.):

Acanthocephala sp., nymph.

H. 326. VII. 1. 25. Red River, 1 mile west of Arkansas line, McCurtain Co.

Iadera haematoloma (Herrich-Schaffer).

H. 301. VI. 29. 25. 2 miles north of Broken Bow, McCurtain Co.

²W. T. DAVIS also has specimens of the cicada *Diceroprocta vitripennis* (Say) collected in Payne County, Okla., VIII. 10. 24, by W. J. Brown. In some parts of Oklahoma this cicada comes to light in great numbers, especially in mid-June. It has a very wide range in the Mississippi valley; I have collected it on the Berrien County dunes in Michigan.—R. F. H.

Lygaeidae:

Drymus crassus VanDuzee.

- H. 328. VI. 1. 25. Red River, 1 mile west of Arkansas line, McCurtain Co.

Reduviidae:

Arilus cristatus (Linne).

- H. 528. VII. 12. 25. ½ mile west of Sawyer, Choctaw Co.

Gelastocoridae:

Gelastocoris sp. (probably *G. oculatus* Fabricius).

- H. 505. VI. 12. 25. 4 miles south of Grant, on Red River, Choctaw Co.

Notonectidae:

Notonecta sp. (mutilated; probably *N. undulata* Say).

- H. 13. VI. 13. 25. 15 miles southwest of Wister, Le Flore Co.

Cicadidae:

Tibicen pruinosa (Say).

- H. 330, July 1, 1925, Red River, 1 mile west of Arkansas line, McCurtain Co.

H. 331. Same data as preceding.

H. 380. Same data as preceding.

- H. 267. June 26, 1925. 10 miles southeast of Broken Bow, McCurtain Co.

Tibicen chloromera (Walker) [= *sayi* Smith & Grosbeck].

- H. 266. June 26, 1925. 10 miles southeast of Broken Bow, McCurtain Co.

H. 331. July 1, 1925. Red River, 1 mile west of Arkansas line, McCurtain Co.

H. 332. Same data as preceding.

H. 349. Same data as H. 331.

H. 440. July 6, 1925. 2 miles north of Broken Bow, McCurtain Co.

H. 477. July 8, 1925. 4 miles west of Broken Bow, McCurtain Co.

Tibicen lyricen (DeGeer).

H. 477. July 8, 1925. 4 miles west of Broken Bow, McCurtain Co.

H. 555. July 16, 1925. 4 miles east of Tuskahoma, Pushmataha Co.

H. 557. July 16, 1925. Same data as preceding.

H. 558. July 16, 1925. Same data as preceding.

Diceroprocta vitripennis (Say) [= *erratica* Osborn].

H. 374. July 2, 1925. Red River, 1 mile west of Arkansas line, McCurtain Co.

H. 380. July 2, 1925. Red River, 1 mile west of Arkansas line, McCurtain Co.

H. 399. July 2, 1925. Red River, 1 mile west of Arkansas line, McCurtain Co.

H. 556. July 16, 1925. 4 miles east of Tuskahoma, Pushmataha Co.

IV.

LIST OF THE HEMIPTERA RECORDED FROM OKLAHOMA.

Family SCUTELLERIDAE.

No Oklahoma records available.

Family CYDNIDAE.

Corimelaena lateralis (Fabricius). South McAlester, Ind. Terr. (Van Duzee, 1904, p. 8, as *C. gillettei*, n. sp.).

Pangaeus bilineatus (Say). "Inhabits Indian Territory, . . ." (Uhler 1876, p. 275).

Annestus pusillus (Say). Indian Territory. (Uhler 1876, p. 278). Not in V. D. Cat.

Pangaeus discrepans (Uhler). Indian Territory. (Uhler 1877, p. 386).

Family PENTATOMIDAE.

Brochymena arborea (Say). Indian Territory. (Uhler 1876, p. 283).

Mormidea lugens (Fabricius). Indian Territory. (Uhler 1872, p. 395; 1876, p. 285).

Euschistus tristigmus (Say), subspecies not stated. Ind. Terr. (Uhler 1876, p. 286).

Euschistus tristigmus pyrrhocerus (Herrich-Schaeffer). Fort Cobb, Ind. Terr. (Uhler 1872, p. 396).

Proxys punctulatus (Palisot de Beauvois). Indian Territory. (Uhler 1876, p. 286).

Cosmopepla bimaculata (Thomas). Indian Territory. (Uhler 1876, p. 284; this reference not given in Van Duzee's Catalogue, 1917). (Also Uhler 1872, p. 395).

Murgantia histrionica (Hahn). Indian Territory. (Uhler 1876, p. 290).

Coenus delius (Say). Fort Cobb, Ind. Terr. (Uhler 1872, p. 396).

Hymenarcys nervosa (Say). Indian Territory. (Uhler 1876, p. 287).

Hymenarcys aequalis (Say). (Uhler 1872, Fort Cobb, p. 396, as *Coenus aequalis*).

Banasa dimidiata (Say). Indian Territory. (Uhler 1876, p. 291).

Banasa euchlora Stal. Indian Territory. (Uhler 1876, p. 291).

Podisus maculiventris (Say). Indian Territory. (Uhler 1872, p. 395, as *P. spinosus* (Dallas)).

Family *COREIDAE*. (sens. lat.)

Acanthocephala femorata (Fabricius). Indian Territory. (Uhler 1876, p. 297).

Acanthocephala terminalis (Dallas). Near Fort Cobb. (Uhler 1872, p. 400).

Leptoglossus phyllopus (Linne). Near Fort Cobb. (Uhler 1872, p. 400).

Leptoglossus oppositus (Say). Indian Territory. (Uhler 1876, p. 298).

Merocoris typhoeus (Fabricius), subsp. not stated. "Okla." (Van Duzee, 1917, p. 84; can not locate other reference).

Merocoris typhoeus distinctus (Dallas). Oklahoma. (McAtee, Bull. Brooklyn Ent. Soc. xiv, 1919, p. 15).

Archimerus alternatus (Say). Indian Territory. (Uhler 1876, p. 297, as synonym of *A. calcarator* Fabr.!).

Chariesterus antennator (Fabricius). Indian Territory. (Uhler 1876, p. 291.).

Catorhintha guttula (Fabricius). "Okla." (Van Duzee 1917, p. 102).

Catorhintha texana Stal. Indian Territory. (Uhler 1876, p. 292).

Catorhintha mendica Stal. Near Fort Cobb. (Uhler 1872, p. 401).

Anasa tristis (DeGeer). Near Fort Cobb. (Uhler 1872, p. 401).

Anasa armigera (Say). Indian Territory. (Uhler 1876, p. 293).

Anasa scorbatica (Fabricius). "Okla." (Van Duzee 1917, p. 105).

Coriscus (= *Alydus* auctt.) *pilosulus* (Herrich-Schaeffer). Ind Terr. (Uhler 1876, p. 294).

Harmostes fraterculus (Say). Indian Territory. (Uhler 1876, p. 300).

Corynus (*Coriscus* auctt plur.) *sidae* (Fabricius). Ind. Terr. (Uhler 1876, p. 301).

Family ARADIDAE.

Aradus (Aradus) falleni Stal. "Oklahoma": South McAlester. (Ind. Terr.) (H. F. Wickham). (Parshley 1921, p. 92).

Aradus (Aradus) robustus Uhler. "Okla." (Van Duzee 1917, p. 130; no other reference located).

Aradus (Aradus) aequalis (Say). "Okla." (Uhler 1876, p. 321).

Brachyrhynchus simplex Uhler. Indian Territory. Uhler 1876, p. 323).

Family LYGAEIDAE.

Lygaeus (Lygaeus) turcicus Fabricius. Indian Territory. (Uhler 1876, p. 302; reference uncertain, as Uhler did not always differentiate between this and the following species).

Lygaeus (Lygaeus) kalmii Stal. Parshley, 1923 (Canad. Entom. Iv, p. 84), states that Oklahoma specimens are intermediate between the western *kalmii* typ. and the eastern subspecies *angustomarginatus* Parsh. His map (l. c., p. 83) shows that both typical *kalmii* and the intermediates were seen from Pauls Valley in south central Oklahoma.

Geocoris punctipes (Say). Indian Territory. (Uhler 1876, p. 306).

Oedancala dorsalis (Say). Indian Territory. (Uhler 1876, p. 307).

Myodocha serripes Olivier. Indian Territory. (Uhler 1876, p. 309).

Family PYRRHOCORIDAE.

Largus succinctus (Linne). Indian Territory. (Uhler 1872, p. 401).

Family TINGIDAE.

Gargaphia solani Heidmann. "Okla." (Van Duzee 1917, p. 218).

Leptodictya plana Heidemann. "Okla." (Van Duzee 1917, p. 219)

Family PHYMATIDAE.

Macrocephalus prehensilis (Fabricius). Indian Territory. (Uhler 1876, p. 324).

Family REDUVIIDAE.

Metapterus (Barce auctt. plur.) *fraternus* (Say.) "Durant, Okla. 2. VI. 1905." (McAtee & Malloch 1925, Proc. U. S. Nat. Mus. lxxvii, Art. 1, p. 89).

Stenopoda cinerea Laporte. Indian Territory. (Uhler 1876, p. 332, as *S. culiciformis* (DeGeer).

Triatoma sp. incert. Indian Territory. (Uhler 1876, p. 331, as

Conorhinus variegatus Drury, an Antillean species. Several species of *Triatoma* occur in the neighboring states, so that the identity of Uhler's form is uncertain. Possibly it is *T. sanguisuga* Le Conte).

Melanolestes p. picipes (Herrich-Schaeffer). Fort Cobb. (Uhler 1872, p. 421).

Melanolestes p. abdominalis (Herrich-Schaeffer). Fort Cobb. (Uhler 1872, p. 421).

Hammatocerus purcis (Drury). Indian Territory. Uhler 1876. p. 329).

Ritchia aptera Stal. Fort Cobb, Ind. Terr. (Uhler 1876. p. 327, and 1872, p. 419, as *F. nigrovittata* Stal).

Arilus cristatus (Linne). Indian Territory. (Uhler 1876, p. 327).

Sinea diadema (Fabricius). Indian Territory. (Uhler 1876, p. 326).

Family NABIDAE.

Nabis sp. incert. Indian Territory. (Uhler 1872, p. 419, as *N. inscriptus* Kirby, a boreal species scarcely recognized since its description in 1837).

Family MIRIDAE.

Stenodema trispinosum Reuter. (r) Indian Territory. (Uhler 1876, p. 316, as *brachytropis calcaratus* Fallén).

Paracalocoris scrupus (Say). Indian Territory. (Uhler 1876, p. 317).

Cyrtopeltis melanocephalus Reuter. 'Female. Aug. "Ind. T."' (Knight 1922, Bull. Brooklyn Ent. Soc. xvii, p. 66).

Family VELIIDAE.

Microvelia circumcincta Champion. Ardmore, Okla. (Bueno 1921, Ent. News xxxii, p. 274).

Family GELASTOCORIDAE.

Gelastocoris oculus (Fabricius). Indian Territory. (Uhler 1876, p. 336).

Family CORIXIDAE.

Arctocoris obliqua Hungerford. "Oklahoma". (Hungerford 1925, Bull. Brooklyn Ent. Soc. xx, 142).

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