

**CONTRIBUTIONS TOWARDS A CATALOGUE OF THE
INSECTS OF KANSAS.**

Results of Personal Collecting.

By **ELBERT S. TUCKER**, Museum Assistant in Systematic Entomology, University of Kansas,
Lawrence.

**ADDITIONS TO THE KANSAS LIST OF HEMIPTERA-
HETEROPTERA.**

THE names of forty-eight species or varieties of Hemiptera-Heteroptera are hereby added to the Kansas list which was begun by Prof. E. A. Popenoe in Transactions Kansas Academy of Science, volume IX, pages 62, 63, and recently enlarged by Mr. F. F. Crevecoeur, *loc. cit.*, volume XIX, pages 232-234.

All the specimens were collected in Douglas county, except in one instance, which is especially denoted.

Family **PENTATOMIDÆ.**

(Subfamily *Cydninae.*)

Cydnus obliquus Uhl. April.

Pangæus uhleri Signoret. May, June, July, October.

(Subfamily *Pentatominae.*)

Brochymena quadrupustulata Fab. April, August.

Pentatoma ligata Stal. April, October.

Euschistus tristigmus Say, var. *pyrrhocerus* H.-Sch. July; July, twilight; August.

Meneles insertus Say. April, November.

Family **COREIDÆ.**

Archimerus calcarator Fab. June; June, twilight.

Acanthocephala instabilis Uhl. October.

terminalis Dallas. June, October.

Leptoglossus oppositus Say. October; October, twilight; November; November, twilight.

Alydus eurinus Say. August.

pilosulus H.-Sch. August.

Harmostes fraterculus Stal. August.

Corizus nigristernum Signoret. May, July.

sidæ Fab. August, on cockle-bur blossoms.

Family **LYGÆIDÆ.**

Nysius minutus Uhl. July; August; August, at night. Also in Sedgwick county; September.

Belonochilus numenius Say. November.

Phlegyas annulicrus Stal. May, at night.

Sphragisticus nebulosus Fal. August, at night.

Eremocoris ferus Say. August, October.

Family GRYLLIDÆ.

- Tridactylus apicalis* Say. May, along sandy banks of Kansas river.
Ellipes minuta Scud. May, along sandy banks of Kansas river.
Gryllus luctuosus A.-Serv. June and July, all at electric light.
Xabea bipunctata De G. August, at electric light.
Hapithes agitator Uhl. August, colony on ailantus bush.

A PRELIMINARY LIST OF THE NEUROPTEROUS INSECTS OF KANSAS.

No attempt has been made hitherto towards publishing a list of the neuropterous insects found in Kansas. Consequently, if the present list be duly considered as forming a preliminary state list, a beginning is made, with fifty-eight species and one variety.

ORDER EPHEMERIDA.

Family EPHEMERIDÆ.

All of the specimens were collected at electric light on or near bridge across the Kansas river at Lawrence, except in one instance, which is denoted.

- Polymitarchys albus* Say. July and August.
Hexagenia bilineata Say. July and September.
 venusta Eaton. July and August.
Pentagenia quadripunctata Walsh. June, July, and August.
Siphylurus, species probably new. June and July. The only male imago was taken in July, in daytime, at a distance of more than a mile from the river.
Heptagenia pulchella Walsh. June and July.
Rithogenia elegantula Eaton. July.
Cænis diminuta Wlk. July to September.

ORDER PLECOPTERA.

Family PERLIDÆ.

With few exceptions, which are denoted in each case, the specimens were collected at electric light on bridge across the Kansas river at Lawrence.

- Acroneuria ruralis* Hagen. July.
Perla ephyre Newm. July, at electric light in town, away from river; August, found resting in daytime.
 flavescens Walsh. Last week of June, at electric light one mile from river; July, found resting in daytime; and July, at electric light on bridge.
 lurida Hagen. July.
Perla xanthenes Newm. July, at electric light in town; August, at electric light on bridge.
Perlinella placida Hagen. July.
 species probably new. August, found resting in daytime more than a mile from the river.
Pseudoperla occipitalis Pictet. July.
Chloroperla bilineata Say. May.
Capnia pygmæa Burm. April, on bank of Kansas river.

ORDER *ODONATA*.

All Douglas county specimens.

Family *CALOPTERYGIDÆ*.

Calopteryx maculata Palisot de Beauvois. June.

Hetaerina basalis Hagen. August.

Family *AGRIONIDÆ*.

Lestes forcipatus Rambur. May, at night.

rectangularis Say. August.

unguiculatus Hagen. June, August.

Enallagma civile Hagen. June.

Ischnura verticalis Say. May, June.

Family *GOMPHIDÆ*.

Herpetogomphus designatus Selys. July.

Gomphus amnisola Walsh. June.

Family *ÆSCHNIDÆ*.

Anax junius Drury. May, August.

Family *LIBELLULIDÆ*.

Perithemis domitia Drury. July.

Celithemis eponina Drury. July.

Sympetrum corruptum Hagen. October.

rubicundulum Say. September.

rubicundulum Say, var. *assimilatum* Uhl. September.

vicinum Hagen. July.

Pachydiplax longipennis Burm. September.

ORDER *ISOPTERA*.

Family *TERMITIDÆ*.

Termes flavipes Koll. Douglas county, July, from rotten oak stringers in sidewalk.

ORDER *CORRODENTIA*.

Specimens taken in Douglas county.

Family *PSOCIDÆ*.

Pterodela pedicularia Linne. September.

Family *ATROPIDÆ*.

Atrops divinatoria Fab. September, October, November.

ORDER *NEUROPTERA*.

Unless especially mentioned, specimens were taken in Douglas county.

Family *SIALIDÆ*.

Chauliodes rasticornis Rambur. May, at electric light near river.

Corydalis cornuta Linne. July and August, all at electric light, usually near river. Larvæ collected in July.

Family CHRYSOPIDÆ.

- Chrysopa nigricornis* Burm. April, at electric light; June; October.
oculata Say. May; June, twilight; July; July, twilight. Also in Sedgwick county; August.
plorabunda Fitch. April; June; July, at night; August; August, at night; November. Also in Sedgwick county; August.
rufilabris Burm. July, twilight; August, at night.

Family HEMEROBIDÆ.

- Hemerobius stigmaterus* Fitch. April; May; May, at night; August, at night; September, at night; October.
Symphorobius amicus Fitch. June.
perparvus McLach. April, at lamp light.

Family MYRMELEONIDÆ.

- Brachynemurus abdominalis* Say. August; August, at night. Also in Sedgwick county; August.

Family CONIOPTERYGIDÆ.

- Coniopteryx vicina* Hagen. May.

ORDER MECOPTERA.

- Douglas county specimens.

Family PANORPIDÆ.

- Bittacus stigmaterus* Say. July, at night; August.
strigosus Hagen. June, July.

ORDER TRICHOPTERA.

All except the first species and some examples of the last were collected at electric light on the bridge crossing the Kansas river, at Lawrence.

Family LIMNephilidÆ.

- Apatania pallida?* Hagen. October, attracted by lamp light.

Family LEPTOCERIDÆ.

- Leptocerus dilutus* Hagen. July to October.
Setodes albida Wlk. July to September.
uwarowii Koll. July to September.
Mystacides punctata Banks. July to September (type, August).

Family HYDROPSYCHIDÆ.

- Hydropsyche kansensis* Banks. June to September.
phalerata Hagen. May to September.
scalaris Hagen. June to October; also May, at night; April; August in house, attracted by light.

TRANSACTIONS
OF THE
KANSAS
ACADEMY OF SCIENCE.
VOL. XX, PART II.

CONTAINS
LIST OF OFFICERS, PAST AND PRESENT; MEMBERSHIP LIST
JANUARY 1, 1907; SKETCH OF THE ACADEMY; CONSTITU-
TION AND BY-LAWS; MINUTES OF THIRTY-NINTH
ANNUAL MEETING; PRESIDENT'S ADDRESS,
AND SOME PAPERS READ.

DECEMBER, 1906.

STATE PRINTING OFFICE,
TOPEKA, 1907.