

INCIDENTAL CAPTURES OF NEUROPTEROUS INSECTS AT PLANO, TEXAS.¹

BY E. S. TUCKER, BUREAU OF ENTOMOLOGY, U. S. DEPT. OF AGRIC.

DURING the time in which I was stationed at Plano, Collin county, Texas, covering a period from the first week of May to the end of December, 1907, a general collection of insects was made by myself as opportunities permitted in connection with my work upon the green bug. In the study of the specimens thus taken, the neuropterous insects were the first examples that received specific determinations, and, as a result, the following list of names with data of captures is presented.

Wherever the country of northern Texas corresponds to that about Plano, aquatic insects, particularly the neuropterous kinds, are sure to find attractive haunts on account of numerous streams, though mostly small, which are usually bordered with dense thickets of timber, shrubs and weeds. Many species besides those taken undoubtedly occur since only incidental attention could be given to collecting, but so far as results are obtained, every local record of a species will contribute towards a better knowledge of the insects of Texas.

Acknowledgments are due Mr. Nathan Banks for the principal part of the work in identification of the specimens, although valuable assistance has been rendered by Mr. R. P. Currie in instances relating to some of the dragonflies. The nomenclature and arrangement of the list conforms with the latest catalogue by Mr. Banks, except for the interpolation of the Odonata.

SUMMARY OF FAMILIES AND SPECIES.

Termitidae	1	Mantispidae	1
Psocidae	2	Hemerobidiidae	2
Ephemeridae	2	Chrysopidae	3
Calopterygidae	2	Myrmeleonidae	1
Agrionidae	7	Panorpidae	2
Gomphidae	3	Sericostomatidae	1
Æschnidae	1	Leptoceridae	3
Libellulidae	2	Hydropsychidae	1
Total number of species,			34.

¹ This list is offered for publication with the courteous consent of Prof. C. E. Sanborn, who directed my experimental work at the time the collections were made.

ORDER ISOPTERA.

Family TERMITIDAE.

Termes lucifugus Rossi. October, winged forms issuing from sod ground wet after rain, wingless individuals at entrance of exit hole were preyed upon by ants of the species *Solenopsis geminata* Fab., var. *diabola* Wheeler.

ORDER CORRODENTIA.

Family PSOCIDAE.

Peripsocus sp., probably new. October, from littered ground in corn field.
Psocus striatus Wk. November.

ORDER ARCHIPTERA.

Family EPHEMERIDAE.

Hexagenia limbata Pict. July to September, at night taken at trap light; August, resting in daytime. Male and females.
Caenis diminuta Wk. August, at night taken at trap light.

ORDER ODONATA.

Family CALOPTERYGIDAE.

Calopteryx maculata Beauv. July.
Hetaerina vulnerata Selys. July.

Family AGRIONIDAE.

Argia agrioidea Calv. June.
 moesta Hag. July.
 sedula Hag. July to October.
 translata Hag. July and August.
 vivida Hag. October.
Enallagma basidens Calv. July, in alfalfa field adjacent to stream; September.
 Mr. Nathan Banks who identified this species remarked that it is very uncommon.
 civile Hag. November.

Family GOMPHIDAE.

Herpetogomphus designatus Hag. July.

Gomphus militaris Hag. July. The remarks by Dr. L. O. Howard concerning the identification of the single male specimen are as follows: "This specimen was sent to Dr. Philip P. Calvert of Philadelphia, for verification of the determination, since we had no specimens of that supposed species in Washington and could not be certain of its identity from the description. Doctor Calvert reports that he has compared it with the specimens of *Gomphus militaris* in the Academy of Natural Science, which were some years ago compared with Doctor Hagen's type of that species in the Museum of Comparative Zoology. He states that as a result he believes your specimen is also *militaris*, for, although there are some slight differences, they are not greater than those existing between the three males now at the Academy."

Brechmorhoga mendax Hag. September.

Family AESCHNIDAE.

Anax junius Dru. July twilight. Judging from the specimen taken that others in flight were the same kind, numbers of these insects were observed at dusk flying southward after the manner of a scattered flock of birds.

Family LIBELLULIDAE.

Orthemis ferruginea Fab. October.

Plathemis lydia Dru. July.

ORDER NEUROPTERA.

Family MANTISPIDAE.

Mantispa brunnea Say. July, preying upon *Aphis maidis* in corn field; October.

Family HEMEROBIIDAE.

Micromus posticus Wk. August.

variolosus Hag. May at dusk in oat field; August; October.

Family CHRYSOPIDAE.

Chrysopa harrisi Fitch. July; July at night, sweeping; August.

Chrysopa oculata Say. July; July in wheat stubble; August; October; October at night taken at trap light; November.

plorabunda Fitch. July; July in oat field; August and September at night taken at trap light; November.

Family MYRMELEONIDAE.

Brachynemurus abdominalis Say. July; August at night taken at trap light; September.

Family PANORPIDAE.

Panorpa nuptialis Gerst. October.

Bittacus texanus Bks. MS. July.

ORDER TRICHOPTERA.

Family SERICOSTOMATIDAE.

Helicopsyche sp. August at night taken at trap light.

Family LEPTOCERIDAE.

Triaenodes sp. August at night taken at trap light. "A very interesting form," according to Mr. Banks, but the specimen was unfortunately broken in return transit.

Oecetina fumosa Bks. September.

incerta Wk. August and September at night taken at trap light.

Family HYDROPSYCHIDAE.

Hydropsyche sp., near *alternans* Wk. August; August and September at night taken at trap light; October.

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Bibliography of the Neuropterida

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