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ENTOMOLOGICAL NEWS,

June,

ON A COLLECTION OF NEUROPTEROID INSECTS FROM KANSAS.

By NATHAN BANKS.

Mr. W. A. Snow, of the University of Kansas, has kindly sent me for determination the collection of these insects in that institution. Although the collection is small, yet it adds materially to our knowledge of the distribution of these interesting insects, as hardly any species were previously known from the State.

PERLIDÆ.

Pteronarcys nobilis Hag., 1 2.-This differs somewhat from Hagen's description of his New York specimen, but resembles more his Tennessee specimen. The basal border of the antennæ is narrow and without a process above. The angles of the prothorax sharp, the sides slightly concave; the knees are black; the venter orange in the middle; veins of wings somewhat clouded, especially near base; the ninth ventral segment black, except tip, which is yellowish, deeply notched; the appendages of the last dorsal segment are brown and their superior margins slightly concave. Length 27 inm.

Acroneuria sp., t Q.—Estes Park, Col. Probably a form of the common abnormis.

Pseudoperla occipitalis Pict., 1 Q. Perla lurida Hag., 2 Q, 1 &.—The appendages of the last dorsal segment of the & are slender, narrowed at the tip and sharp pointed.

Perla zanthenes Newm., 1 Q, 1 d.

—The d appendages are much broader and more blunt than in lurida.

Perla cphyre Newm., 1 Q, 1 $\sqrt{2}$ —
The $\sqrt{3}$ may be another species.

Capnia sp., 1 specimen.

EPHEMERIDÆ.

Polymilarcys albus Say?—One subimago, probably this species. Hexagenia bilineala Say, 3 spec. Hexagenia venusta Eat., 2 spec. Pentagenia 4 punctata Walsh, 1 subimago. Leptophicbia sp., 2 specimens. Siphlurus sp., 2 specimens.
Siphlurus aridus Walk.?—A subimago, perhaps this species.
Heplagenia pulchella Walsh, 2 sp.
Heplagenia sp., 1 specimen.
Cænis diminuta Walk., 3 specimens

ODONATA.

Calopteryx maculata Beauv., 1 Q. Hetærina americana Fab., 1 d. Hetærina basalis Hag., 1 d. Lestes forcipata Ramb., 1 Q. Argia apicalis Say, 2 Q, 1 d. Ischnura verticalis Say, 4 spec. Enallagma civile Hag., 1 d.—Manitou Park, Col.

Enallagma prævara Hag., 1 δ.
Enallagma signata Hag., 1 δ.
Enallagma sp., 1 Q.—Thorax villous, moderately large, prothorax with a pale spot each side, postocular spots confluent, abdomen as in E. signata, but a small median black spot on segment 10,

it is also a little shorter than in that species, pterostigma very short, almost white, as are also the costal veins.

Herpetogomphus designatus Selys,

Cphiogomphus severus Hag., 1 ♀.
—Manitou Park, Col.

Gomphus externalis Selys, 1 3. Gomphus amnicola Walsh, 1 3.

Anax junius Drury, 1 \(\varphi\).

Macromia tæniolata Ramb., 1 \(\varphi\).

Epitheca obsoleta Say, 1 \(\varphi\).

NEUROPTERA.

Raphidia oblita Hag., 2 specimens.
Colorado.
Hemerobius sp., 1 specimen.
Polystæchotes punctatus Say, 1 sp.
Chrysopa nigricornis Burm., 1 sp.
Chrysopa florabunda Fitch, 1 spec

Chrysopa nigricornis Burm., 1 sp. Colo Chrysopa florabunda Fitch, 1 spec. Ulula . Billacus strigosus Hag., 2 spec.

Schodes urowarii Kol., 1 specimen. Schodes albida Walk., 2 specimens.

Sctodes incerta Walk.?, I specimen
—Has the palpi shorter and more
hairy than other specimens which
I have seen and may be different.
Leptocerus dilutus Hag., 3 spec.

Myslacides punctata nov. sp.—
Black, with white spots. Palpi black with black hair, second joint short, third much longer, fourth a little shorter than the third, fifth long and flexible, tapering. Antennæ black, basal third annulate with snow white, basal joint black, with a white line on inner side; thorax and abdomen black; legs fuscous, tarsi

Pantala hymenica Say, 1 &, 2 \cop.
Perithemis domitia Drury, 1 &, 2 \cop.
Libellula trimaculata DeGeer, 1 \cop.
Libellula basalis Say, 1 &.
Mesothemis simplicicallis Say, 3 &.
Mesothemis longipennis Burm., 1 \cop.

Diplax rubicunda Say, : ♀.
Diplax costifera Hag., 1 ♀.

Diplax decisa Hag., 1 Q.—Agrees with Hagen's description, except that the wings are flavescent to the nodus.

Diplax corrupta Hag., 1 8, 1 9.

Bittacus stigmaterus Say, 2 spec.
Brachynemurus abdominatis Say,
1 specimen.
Brachynemurus sp., 2 specimens.
Colorado.

Ulula hyalina Latr., 1 specimen.

white; anterior wings black, with many small white spots, most numerous near tip; posterior wings fusco-hyaline, cilia black. Spurs 1.2.2. Length \circ 8.5 mm. One \circ and one \circ Douglas Co., Kans., August, electric light. A larger specimen has a greenish abdomen, the tarsi spotted with black, part of the basal joint of antennæ and the face white; it may be different, but is badly

rubbed.

Hydropsyche scalaris Hag., 2 spec.
Hydropsyche sp., 2 specimens.
Hydropsyche phalerala Hag., 8 sp.

—There may be two or more species in this.

All the specimens are from Douglas County, Kansas, unless otherwise marked.