Order Ephemeroidea.

The members of this order are popularly known as "May flies" because of the time of their greatest abundance, or "day flies" because of their short life in the adult stage. The common term here used is based upon this same peculiarity in their life cycle. The adults have two pairs of wings, very closely united, frail in appearance, and the anterior much larger than the posterior. The head is large, set on a distinct neck, the mouth parts are aborted, the eyes prominent and the antennae very short. The body is densely jointed and the abdomen has long anal filaments, varying from three to five in number. The insects are attracted to light and on favorable evenings in early summer often come in swarms to the electric lights in cities or towns on lake or river banks. The early stages are passed in the water, the larva feeding in the mud and some sometimes for a considerable number of years, before they attain maturity.

There are many interesting and peculiar structures in this, perhaps the most ancient of the existing types of insects, and the enormous numbers of individuals that still occur, even though the number of species is limited, indicates the richness in organic life of the bottom in which they feed. They are not of economic importance from any point of view.

POLYMISACRTS Eaton.

P. albus Say. New Brunswick in July.

HEXAGNIA Walsh.

H. bilineata Say. Caldwell (Cf); New Brunswick (Coll); Westville VI, Riverton VII, (Ju).


EPHEMERA Linna.

E. decora Wilt. Caldwell, Passaic Co (Cf).

LEPTOPHLEBIA West.

L. cymida Say. (Bisturlus) Great Piece Meadows IV, 16-28, very common (Cf); Caldwell (Cf); Ft. Lee V, 1, States Island IV, 17, 17 (Deb); Jamesburg, Trenton IV, 9, Lakeway IV, 1 (Coll); Westville IV, 9 (Cf).

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L. melitiss Estant. Recorded from New Hampshire to North Carolina.
L. nebulidos Wilk. (Silfuraria) Caldwell (Cr).
L. propedulis Estant. Riverton V (Jh).

HADROPHILLIA Estant.
H. americana Banks. Passaic (Harry): the type locality.

EPHEMEREILLA Walsh.
E. excrucians Walsh. Lake Hopatcong VII, T, New Brunswick (Coll).

C. genis Steph.
C. diminuata Wilk. Occurs from New York to Florida.
C. hilaris Eg. Riverton VII (Jh).

BATIS Leach.
B. propinquus Walsh. Delaware Water Gap VII (Jh).
B. unicolor Hagen. New York to District Columbia.

CLEON Leach.
C. vicina pagona. Caldwell, common (Cr).

CALLIBETIS Estant.
C. americanus Banks. Staten Island (5h).
C. servuligious Walsh. Ranges from Canada to the Southern States.
C. undata Pict. (Cleman) New York to Cuba.

BETISCA Walsh.
B. obesa Say. Caldwell, not rare (Cr).

HEPTAGENIA Walsh.
H. canadensis Wilk. Del. Water Gap VII (Jh).; Caldwell (Cr): New

Ravencl. Pict. (Banks) New Brunswick VIII, 1 (Col).
H. fusca Wilk. Caldwell, not rare (Cr).
H. rauclippens Walsh. New Brunswick V, 2, VII, 10 (Col).
H. interpunctata Say. Riverton VII (Jh).
H. terminata Walsh. Pritcheton VI, 31 (Coll).

H. versalis Say. Ranges from Canada to Georgia.

H. violifica Say. Recorded from Canada to Georgia.