

NOTE ON MAYFLY NYMPHS OCCURRING IN THE AUCKLAND DISTRICT.

In New Zealand the Order Ephemeroptera is represented by three families and altogether by twenty-two known species. Phillips (1930, T.N.Z.I., 61.) records **Deleatidium lillii** from Auckland streams. He also mentions his discovery of a new species of **Atalophlebia** from Hikurangi, North Auckland. Phillips described the larva of this species under the name **Atalophlebia borealis** which is thus a valid name. The author has likewise found a species of **Atalophlebia** possessing characters very similar to those of **A. borealis** Phillips. Fourteen species have been discovered in addition to those previously recorded from the Auckland district. The following is a list of the known Auckland species:—

- Family: Ephemeridae: **Ichthybotus hudsoni** (Eaton).
Family: Siphonuridae: **Globuriscus humeralis** (Walker).
Oniscigaster distans Eaton.
Ameletus ornatus (Eaton).
Family: Leptophlebiidae: **Atalophlebia dentata** (Eaton).
A. cruentata Hudson.
A. nodularis (Eaton).
A. borealis Phillips.
A. versicolor Eaton.
Deleatidium autumnale Phillips.
D. cerinum Phillips.
D. fumosum Phillips.
D. Lillii (Walker).



- D. vernale** Phillips.
- D. myzobranchia** Phillips.
- D. (Atalophlebiodes) sepia** Phillips.
- D. (Atalophlebiodes) cromwelli**
Phillips.

For the most part collecting has been confined to bushland streams of the Waitakere Ranges. However two creeks (Motions Ck. and Oakley Ck.) in a western suburb of Auckland have also been explored.

The occurrence of Mayfly nymphs is governed by such factors as type of stream bed (shingle or rock), and strength of the current. The typical Waitakere stream provides a variety of these conditions along its length, and so supports a representative collection of Ephemeroptera. From Motions and Oakley Creeks only two species have been observed, namely **Atalophlebia dentata** which occurs in abundance, and the not so common **Atalophlebia nodularis**.

G. C. HARD,
P.D.D., Auckland.
