



Family Nesameletidae

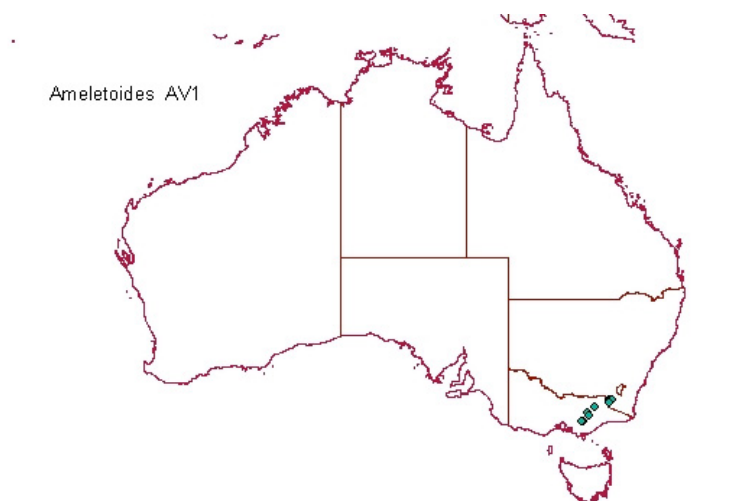
Habitat Profile for *Ameletoides lacusalbinae* Tillyard

Ameletoides lacusalbinae was described by Tillyard (1933) for both the adult and nymph from Lake Albina, Mt Kosciuszko. Tillyard was unable to locate any additional specimens from other streams but this species is common in the Mt Kosciuszko area. Campbell (1981) recorded *Ameletoides* in high altitude streams south eastern Australia extending northwards to Mt Kosciuszko. It occurs in streams with *Coloburiscoides* spp but Campbell (1981) noted that *Ameletoides* did not inhabit the low altitude streams where *Coloburiscoides* did occur. A second species of *Ameletoides* is known from Tasmania.

Ameletoides lacusalbinae was recorded from 12 sites in the Australian Alps and confirms the distribution given by Campbell (1981). Nymphs were found in high altitude streams above 700m (Chart a) and generally close to the stream source (Chart b) and with substrate dominated by bedrock, boulders and cobbles with less than 7% detrital cover (Chart c). Streams were small (less than 8m in width) (Chart d) and nymphs were collected from both edge and riffle samples at less than 0.5m depth (Chart e). Turbidity, alkalinity (Chart f) and conductivity (Chart g) were all low, typical of alpine streams.

The following generalities can be made about the other parameters listed in the Table: recorded water temperature between 2.6-12.7 °C, pH mostly in range of 4.4-8.6 and low turbidity of <7 NTU.

Mean, median and range for selected physical and chemical parameters and habitat categories are given in the Table.



Distribution of *Ameletoides lacus-albinae* in Australia.

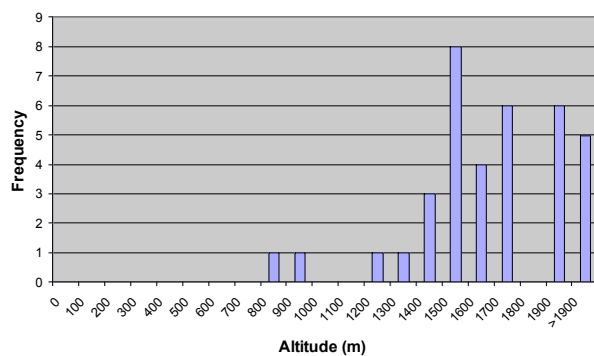


Ameletoides lacus-albinae, nymph, adult female and typical habitat

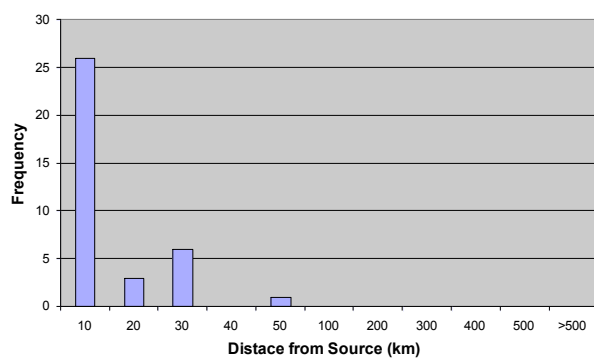


Charts for *Ameletoides lacus-albinae*

a) Altitude

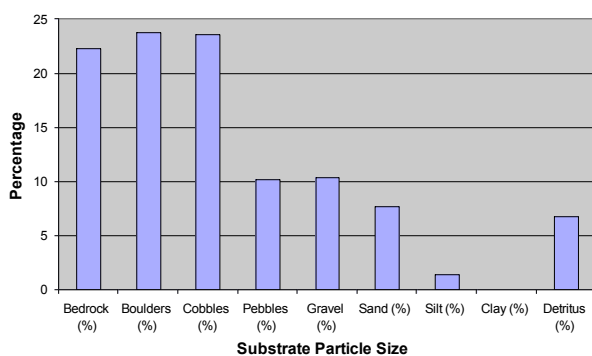


b) Distance from source

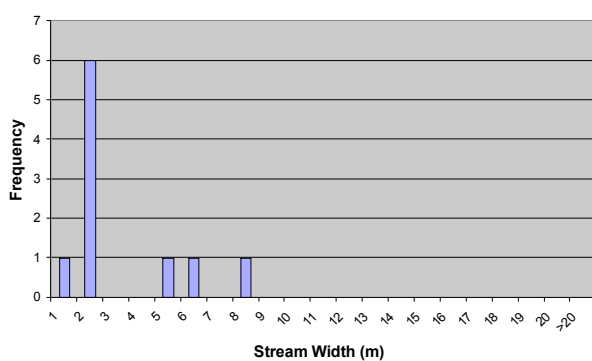




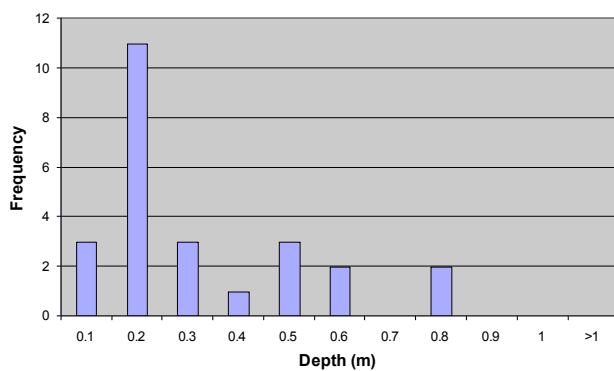
c) Substrate Particle Size



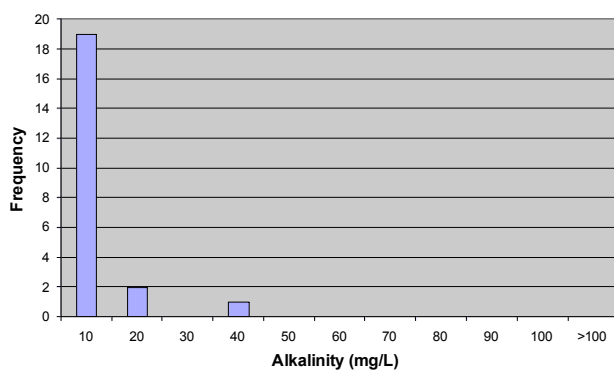
d) Stream Width



e) Depth



f) Alkalinity





g) Conductivity

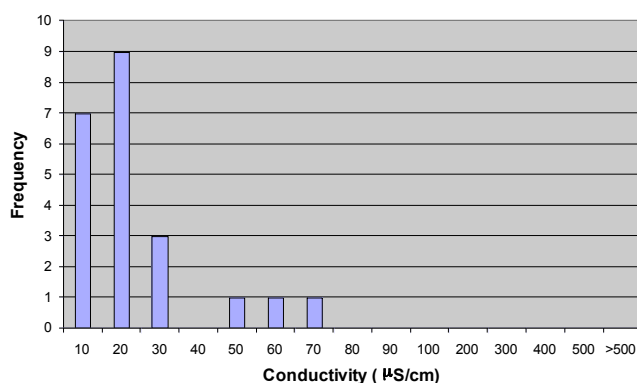


Table. Mean and median physical and chemical parameters for *Ameletoides lacus-albinae*.

	Mean	Median	Range	n
Altitude (m)	1585	1525	720-2020	36
Distance from source (km)	8.8	7.3	0.2-48	36
Width (m)	3.1	2.0	1-8	10
Depth (m)	0.3	0.2	0.1-0.8	25
Water Temperature	7.4	7	2.6-12.7	22
Conductivity (µS/cm)	18.2	15	0-70	22
pH	6.8	6.9	4.4-8.6	22
Turbidity (NTU)	1.7	1.2	0-6.8	22
Oxidised Nitrogen (mg/L)	0.011	0.010	0-0.049	22
Total N (mg/L)				
Total P (mg/L)	0.009	0.01	0-0.034	22
Alkalinity (mg/L)	10.2	10	4.0-37	22

References

Campbell IC (1981) Biogeography of some rheophilous aquatic insects in the Australian region. *Aquatic Insects* **3**, 33-43.

Tillyard RJ (1933) The mayflies of the Mount Kosciusko region. I. (Plectoptera.) Introduction and Family Siphonuridae. *Proceedings of the Linnaean Society of New South Wales* **58**, 1-32.