



FAMILY PHILOPOTAMIDAE

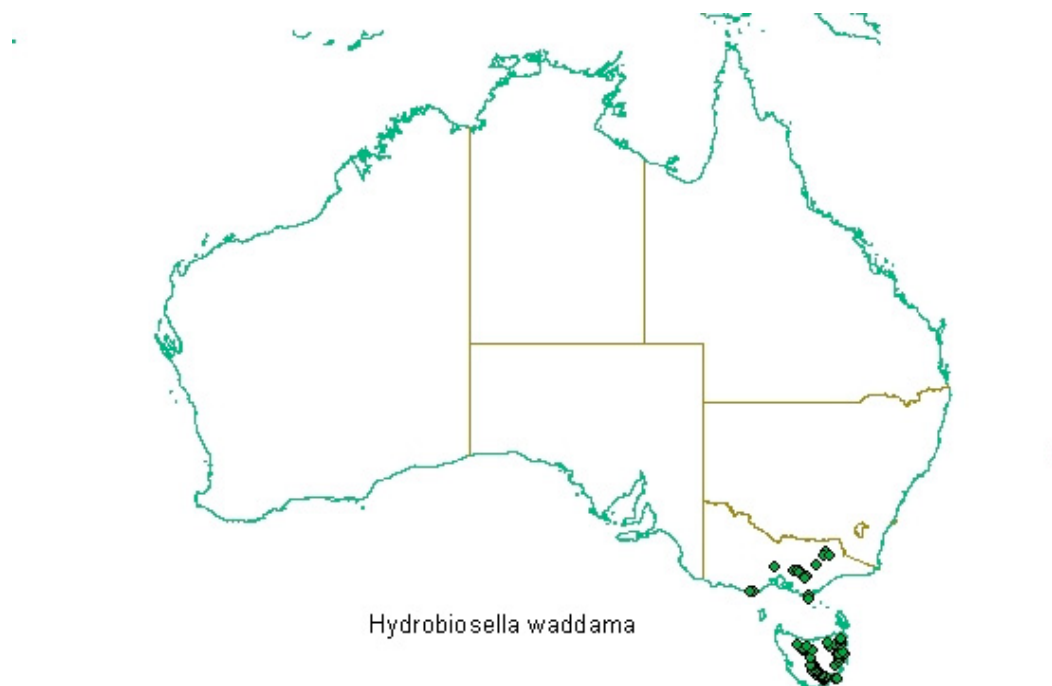
Habitat profile for *Hydrobiosella waddama* (Mosely)

Hydrobiosella waddama (Mosely) was recorded from 80 Tasmanian and Victorian samples in this study. This larva has previously been recorded from south east New South Wales (Cartwright 1997).

Generally *H. waddama* was recorded in kick and combined habitat samples from streams at low to moderate altitudes between 35-720 m (Chart a), a short to moderate distance from the source at <134 km (Chart b), with predominantly medium sized substrates of pebbles, cobbles and gravel (Chart c). The streams were small to large between 1-26 m wide (Chart d), depth 0.05-0.6 m (Chart e) with low alkalinity between 4-31 mg/L (Chart f) and low to moderate conductivity mainly <330 μ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: cool to moderate recorded water temperatures between 7.7-16.2°C, circum-neutral pH in the range of 6.4-7.8, and very low turbidity (<8.5 NTU).

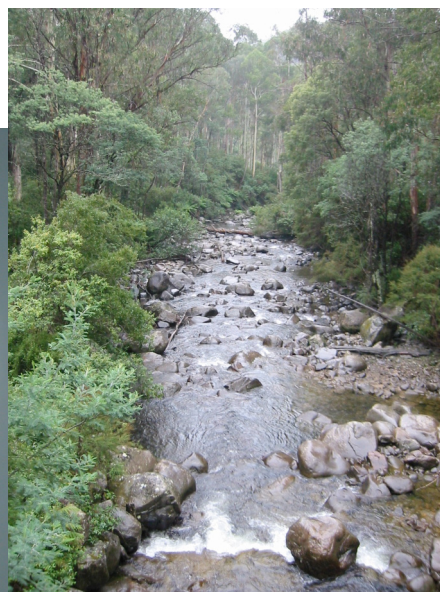
Mean, median and range for selected physical and chemical parameters and habitat categories are given in Table 1.



Distribution of *Hydrobiosella waddama* in Australia.

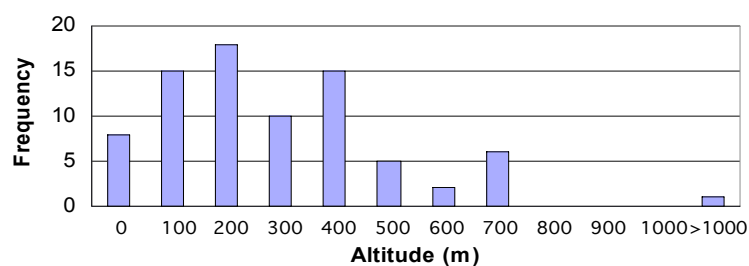


Hydrobiosella waddama, nymph and typical habitat

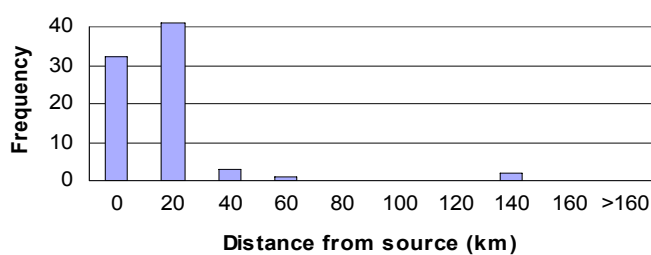


Charts for *Hydrobiosella waddama*

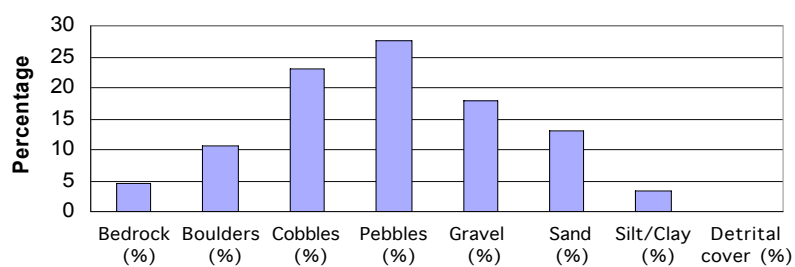
a) Altitude



b) Distance from source

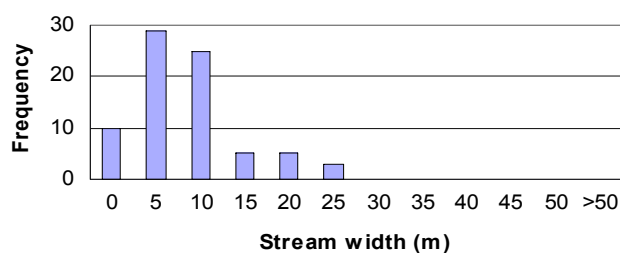


c) Substrate Particle Size

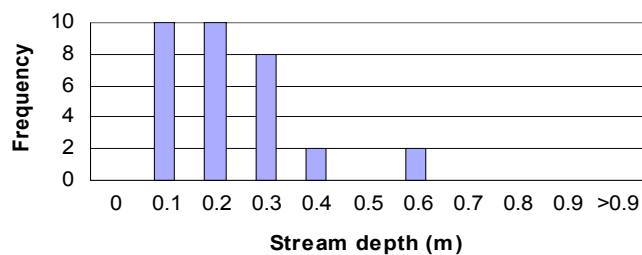




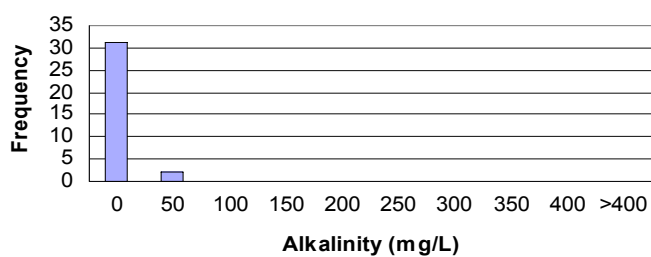
d) Stream Width



e) Depth



f) Alkalinity



g) Conductivity

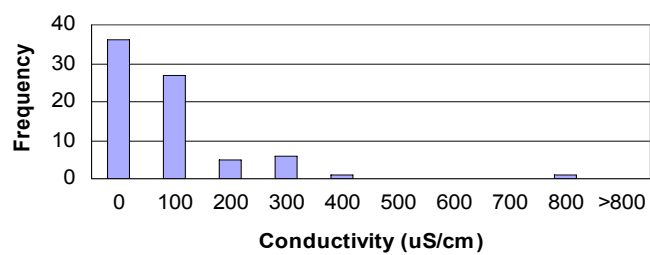




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *H. waddama* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	297	240	20-1520	80
Distance from source (km)	16	11	1-134	79
Stream width (m)	8.5	7.3	1-26	77
Stream depth (m)	0.23	0.21	0.05-0.6	32
Water temperature (°C)	11.9	11.8	6.5-16.2	33
Conductivity (µS/cm)	101	52	13-766	76
pH	7.1	7.2	6.1-8	33
Alkalinity (mg/L)	13	13	4-31	33
Turbidity (NTU)	2.8	1.5	0.3-8.3	33
Total N (mg/L)	0.21	0.22	0.1-0.3	4
NO ₃ -N (mg/L)	0.126	0.119	0.003-0.74	33
Total P (mg/L)	0.022	0.014	0.002-0.12	33

References

Cartwright D (1997) 'Preliminary guide to the identification of late instar larvae of Australian Ecnomidae, Philopotamidae and Tasimiidae (Insecta: Trichoptera).'

(Cooperative Research Centre for Freshwater Ecology.: Albury)