



FAMILY PHILOPOTAMIDAE

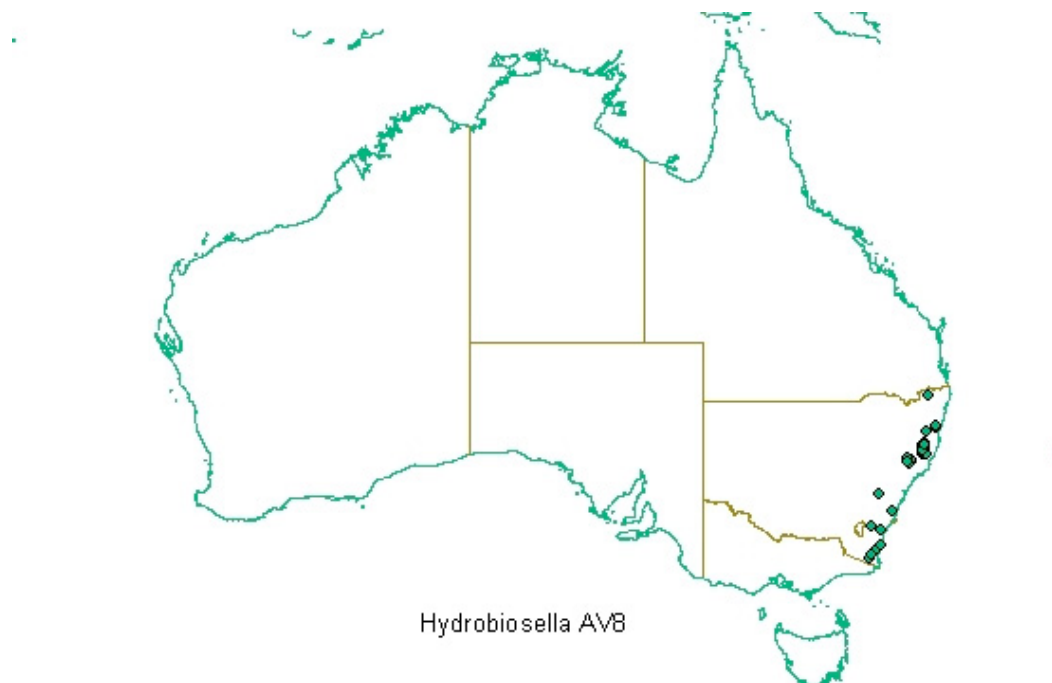
Habitat profile for *Hydrobiosella* sp. AV8

Hydrobiosella sp. AV8 was recorded from 52 New South Wales localities in this study. This larva has also been recorded from south east Queensland (Cartwright 1997).

Generally *Hydrobiosella* sp. AV8 was recorded in riffle habitat samples from streams at low to moderate altitudes between 70-1200 m (Chart a), a short distance from the source, between 0.3-28.5 km (Chart b), with predominantly larger sized substrates of boulders, cobbles and bedrock with low (<5%) detritus cover (Chart c). The streams were small to medium between 2-13 m wide (Chart d) and shallow mainly <0.3m depth (Chart e) with low to moderate alkalinity between 10-33 mg/L (Chart f) and low conductivity <99 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 7.8-16.6°C, circum-neutral pH in the range of 5.7-8.1, and very low turbidity (<16.5 NTU).

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

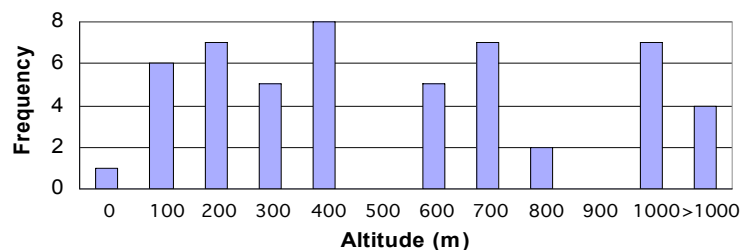


Distribution of *Hydrobiosella* sp AV8 in Australia

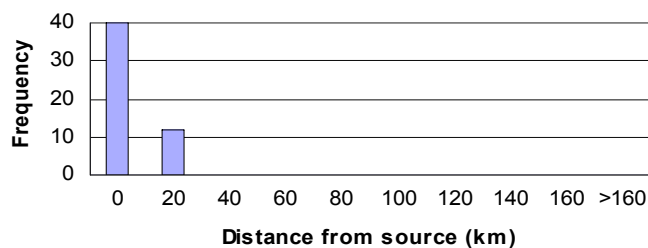


Charts for *Hydrobiosella* sp AV8

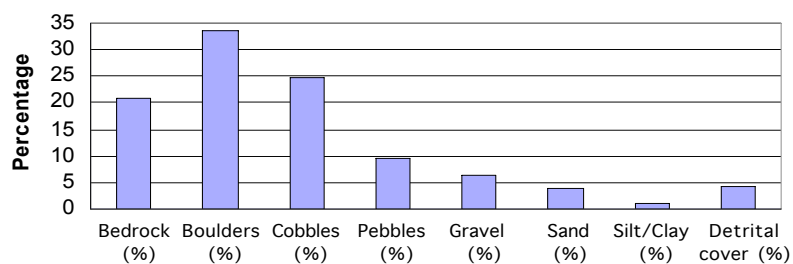
a) Altitude



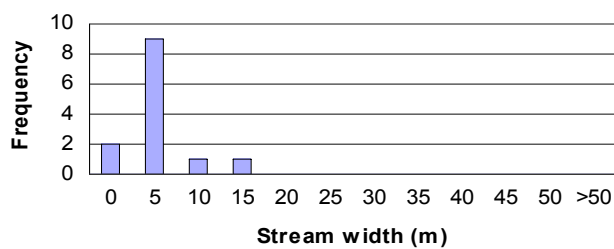
b) Distance from source



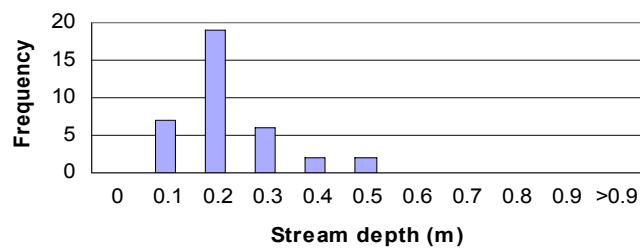
c) Substrate Particle Size



d) Stream Width

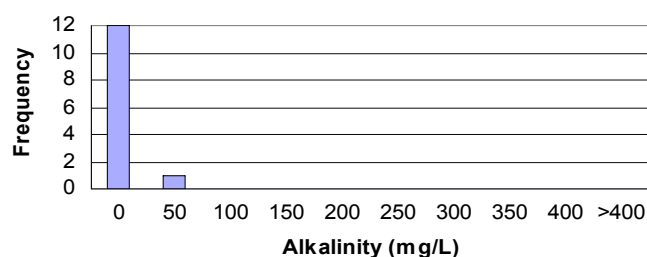


e) Depth





f) Alkalinity



g) Conductivity

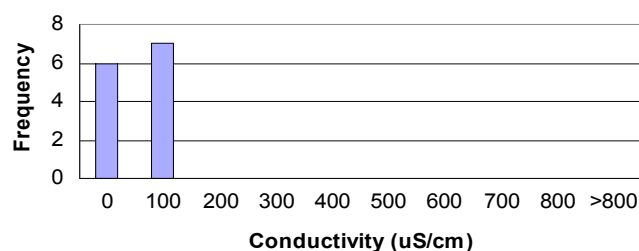


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Hydrobiosella* sp. AV8 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	536	420	20-1200	52
Distance from source (km)	7.8	6.3	0.3-28.5	52
Stream width (m)	5.5	4	2-13	13
Stream depth (m)	0.21	0.2	0.05-0.5	36
Water temperature (°C)	12.9	13.4	7.8-16.6	13
Conductivity (µS/cm)	56	52	0-99	13
pH	7.1	7.3	5.7-8.1	13
Alkalinity (mg/L)	15.8	14	10-33	13
Turbidity (NTU)	3.0	1.0	0-16	13
Total N (mg/L)				
NO ₃ -N (mg/L)	0.053	0.025	0.01-0.19	12
Total P (mg/L)	0.012	0.01	0.01-0.017	12

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)