



FAMILY PHILOPOTAMIDAE

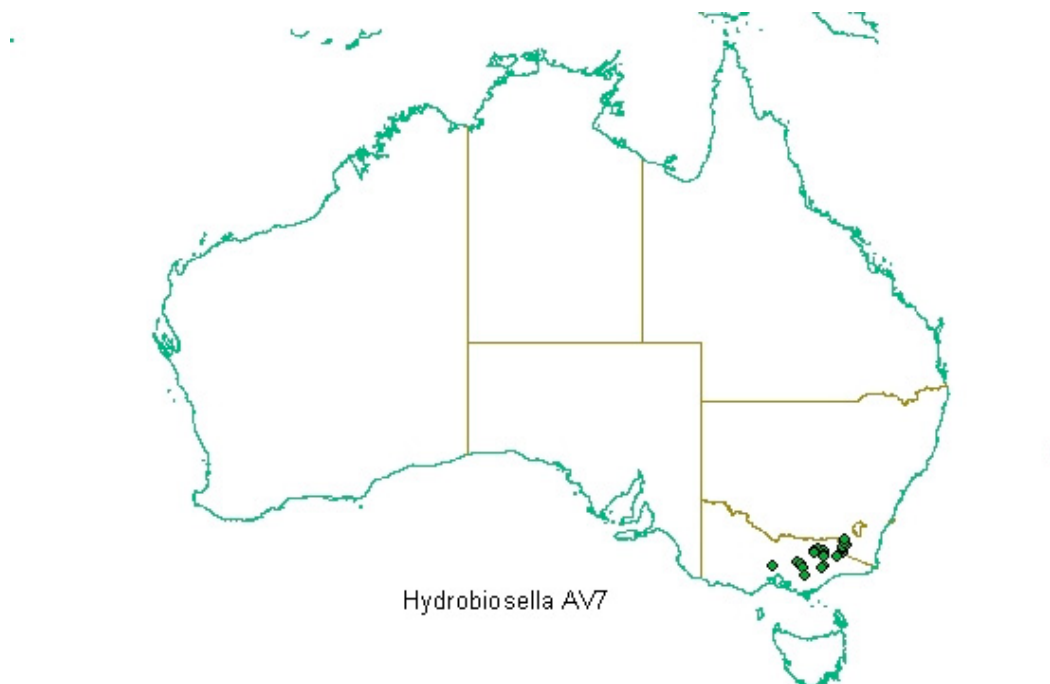
Habitat profile for *Hydrobiosella* sp. AV7

Hydrobiosella sp. AV7 was recorded from 38 Victorian and New South Wales samples in this study.

Generally *Hydrobiosella* sp. AV7 was recorded in kick and riffle habitat samples from streams at moderate to high altitudes between 200-1700 m (Chart a), a short distance from the source at between 1-21 km (Chart b), with predominantly larger sized substrates of cobbles, boulders and pebbles with low (<5%) detritus cover (Chart c). The streams were very small to medium between 0.3-15 m wide (Chart d), and mainly <0.3m deep (Chart e) with low alkalinity between 4-50 mg/L (Chart f) and low conductivity between 5-80 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 6.2-19.4°C, circum-neutral pH in the range of 5.6-8.1, and very low turbidity (<13.5 NTU).

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



Distribution of *Hydrobiosella* sp AV7 in Australia.

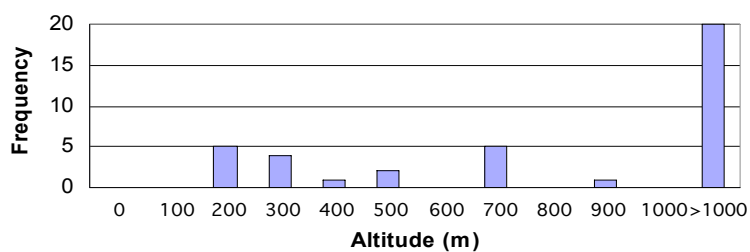


Typical habitat of *Hydrobiosella* sp AV7

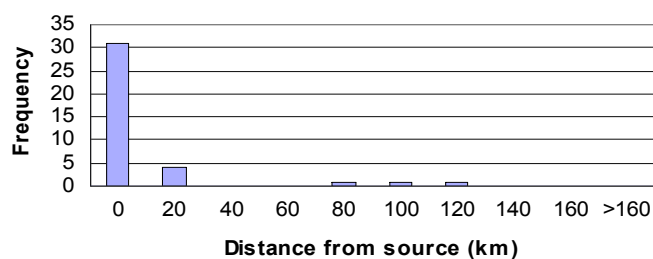


Charts for *Hydrobiosella* sp AV7

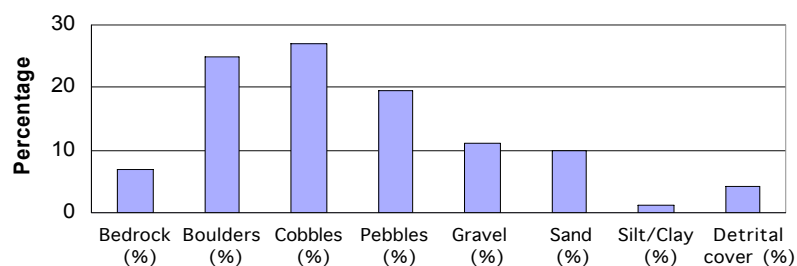
a) Altitude



b) Distance from source

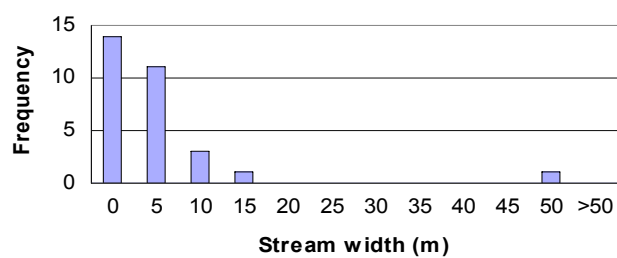


c) Substrate Particle Size

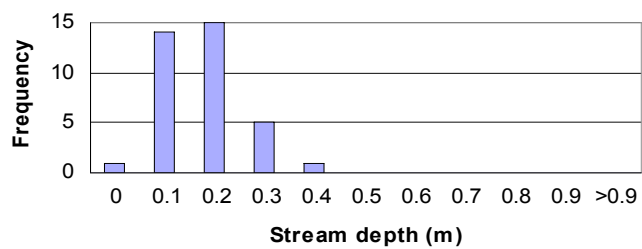




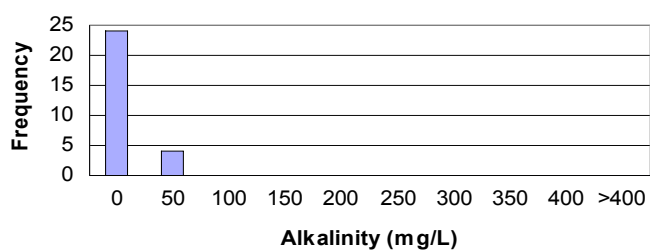
d) Stream Width



e) Depth



f) Alkalinity



g) Conductivity

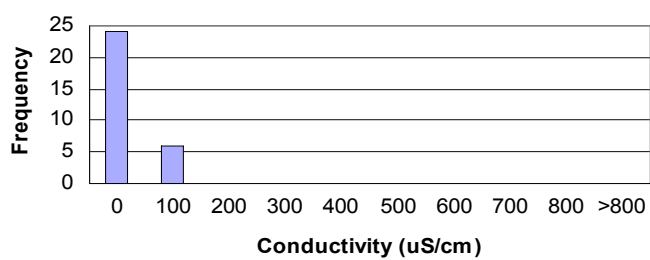




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Hydrobiosella* sp. AV7 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	1050	1220	200-2020	38
Distance from source (km)	12.9	4.3	1-118	38
Stream width (m)	5.2	2.5	0.3-50	30
Stream depth (m)	0.17	0.19	0.04-0.36	36
Water temperature (°C)	11.7	11.8	4.6-20.7	30
Conductivity (µS/cm)	31	24.4	2-84	30
pH	7.1	7.4	5.6-8.1	30
Alkalinity (mg/L)	15.3	10.5	4-65	28
Turbidity (NTU)	2.3	1.3	0-13	26
Total N (mg/L)				
NO ₃ -N (mg/L)	0.025	0.016	0.003-0.083	28
Total P (mg/L)	0.014	0.01	0.005-0.085	24