



FAMILY PHILOPOTAMIDAE

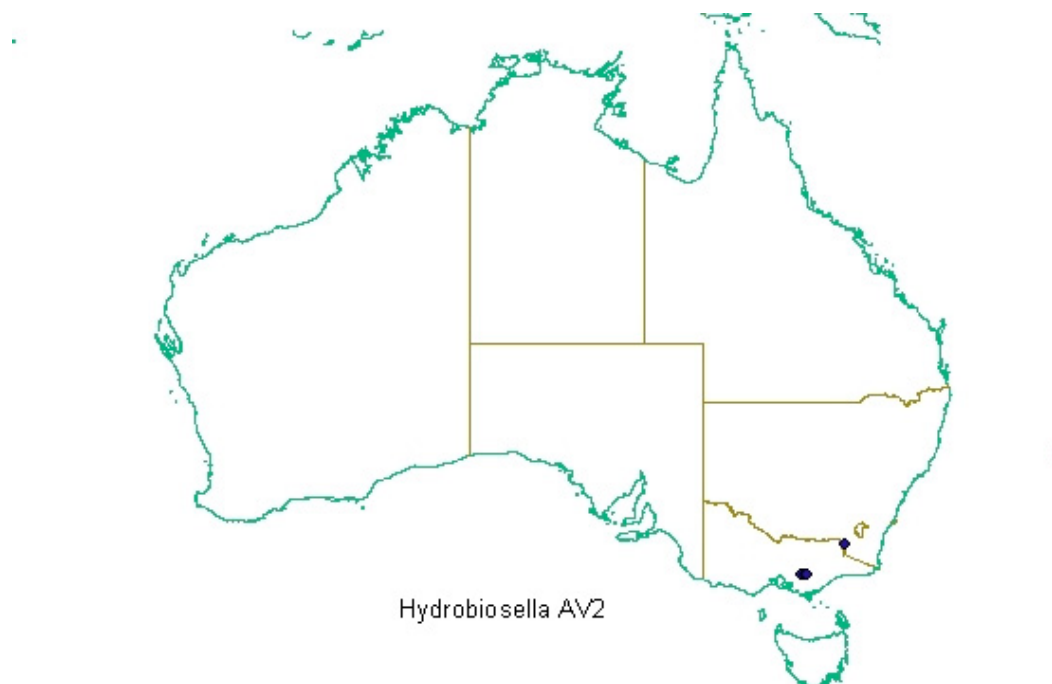
Habitat profile for *Hydrobiosella* sp. AV2

Hydrobiosella sp. AV2 was recorded from 14 Victorian and New South Wales samples in this study.

Hydrobiosella sp. AV2 was recorded in kick and riffle habitat samples from streams at moderate to high altitudes between 800-1460 m (Chart a), a short distance from the source at between 0.1-13 km (Chart b), with predominantly larger sized substrates of cobbles and boulders with moderate (<20%) detritus cover (Chart c). The streams were very small between 0.4-8 m wide (Chart d), depth <0.3m (Chart e) with low alkalinity between 5-15 mg/L (Chart f) and low conductivity between 7-39 $\mu\text{S}/\text{cm}$ (Chart g).

The following generalities can be made about the other parameters listed in the Table: cold to cool recorded water temperatures between 3.9-10.3°C, circum-neutral pH in the range of 6.3-7.7, and very low turbidity (<5.5 NTU).

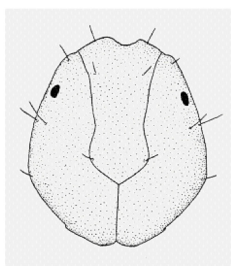
Mean, median and range for selected physical and chemical parameters and habitat categories are given in the Table.



Distribution of *Hydrobiosella* sp AV2 in Australia

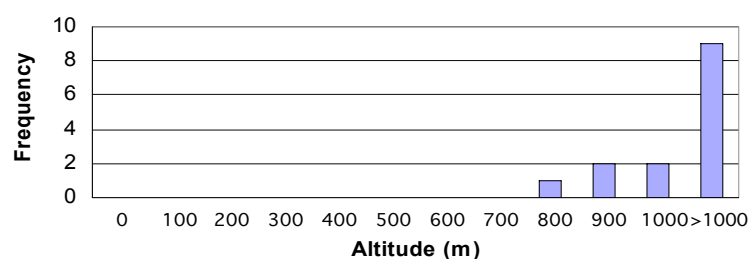


Dorsal view of head and typical habitat of *Hydrobiosella* sp AV2

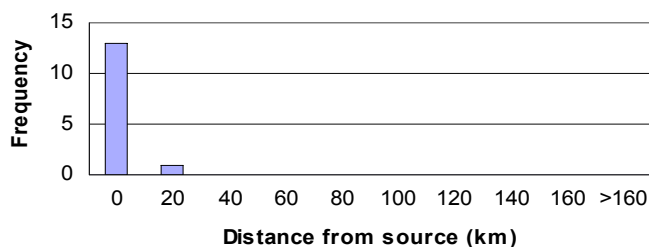


Charts for *Hydrobiosella* sp AV2

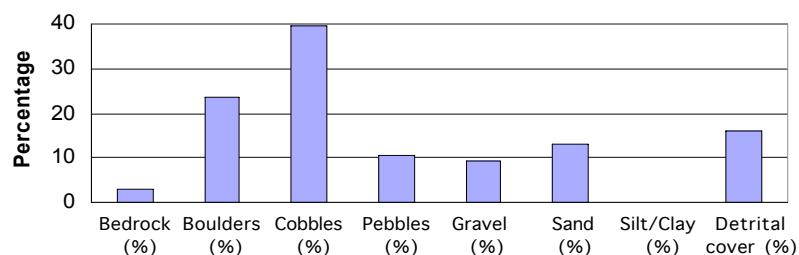
a) Altitude



b) Distance from source

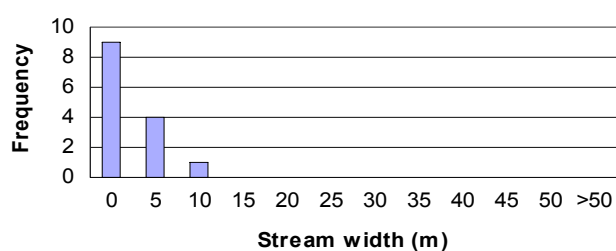


c) Substrate Particle Size

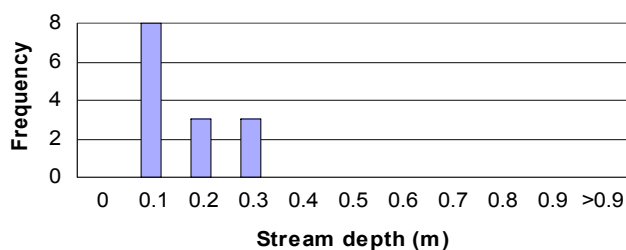




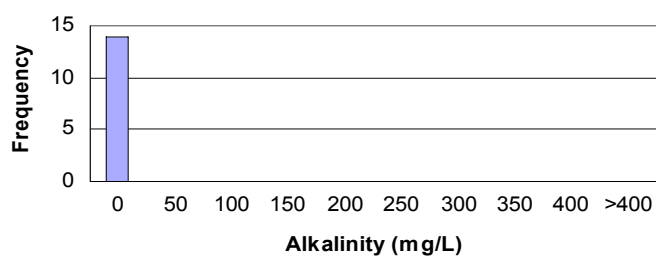
d) Stream Width



e) Depth



f) Alkalinity



g) Conductivity

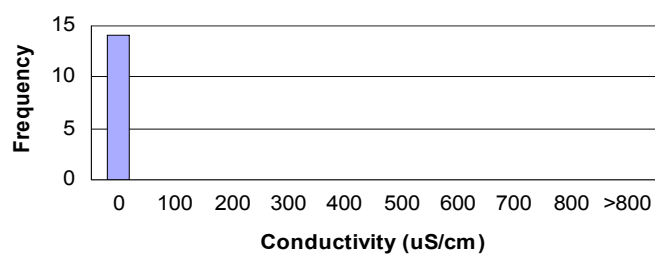




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Hydrobiosella* sp. AV2 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	1103	1160	800-1460	14
Distance from source (km)	2.8	1.9	0.1-13	14
Stream width (m)	2.4	1.4	0.4-8	14
Stream depth (m)	0.16	0.14	0.05-0.32	14
Water temperature (°C)	7.8	8.2	3.9-10.3	14
Conductivity (µS/cm)	19.7	17.1	7-39	14
pH	7.0	7.0	6.3-7.7	13
Alkalinity (mg/L)	8.8	9	5-15	14
Turbidity (NTU)	1.7	1.3	0-5	14
Total N (mg/L)				
NO ₃ -N (mg/L)	0.038	0.03	0.004-0.15	10
Total P (mg/L)	0.014	0.01	0.005-0.034	11